Appendix - A

1. PICTORIAL ASPECT (TRY-OUT FORM)

1. What is the teacher doing in the figure?
   a. Playing with students
   b. Reading the letter
   c. Chilling the students
   d. Entertaining the students
   e. Teaching the students

2. Which activity is being performed by the children in figure?
   a. Playing
   b. Quarrelling
   c. Gardening
   d. Watering the plants
   e. Observing the gardening

3. How do the sparrow babies cry?
   a. Twitter
   b. Coo
   c. Scream
   d. Purr
   e. Hoot

4. The organ shown in the figure is
   a. Pancreas
   b. Liver
   c. Kidney
   d. Heart
   e. Lungs

5. The name of the musical instrument shown in the figure is
   a. Harmonium
   b. Clarionet
   c. Violin
   d. Piano
   e. Bagpipe
6. The playground shown in the figure is called
   a. Arena (wrestling)
   b. Rink (skating)
   c. Pitch (cricket)
   d. Ring (boxing)
   e. Court (tennis)

7. The name of the flower shown in the figure is
   a. Chrysanthemum
   b. Narcissus
   c. Magnolia
   d. Jasmine
   e. Daisy

8. The dry fruit shown in the figure is
   a. Chestnut
   b. Cashew nut
   c. Raisin
   d. Apricot
   e. Almond

9. Name the fruit which is shown in the figure
   a. Pomegranate
   b. Guava
   c. Peach
   d. Apple
   e. Garlic

10. Name the vegetable which relates to the figure
    a. Ginger
    b. Jackfruit
    c. Cauliflower
    d. Tamarind
    e. Myrtle
11. The figure shows
   a. Leopard
   b. Tiger
   c. Lion
   d. Monkey
   e. Cub

12. Which animal is shown in the figure?
   a. Porcupine
   b. Jackal
   c. Stag
   d. Hound
   e. Hyena

13. The following figure shows the bird
   a. Vulture
   b. Ostrich
   c. Hawk
   d. Wood – peeker
   e. Partridge

14. Which of the following reptiles is present in the figure?
   a. Python
   b. Earth – worm
   c. Snake
   d. Cobra
   e. Anaconda

15. Which of the following insect is shown in the figure
   a. Wasp
   b. Dragonfly
   c. Ladybird
   d. Moth
   e. Beetle
16. Which of the following worm is shown in the figure?
   a. Firefly
   b. Glow – worm
   c. Tadpole
   d. Flea
   e. Ladybug

17. Name the article which is shown in the figure
   a. Tongs
   b. Sieve
   c. Churner
   d. Casket
   e. Palanquin

18. Following figure relate to one of the seven wonder of today is
   a. Eiffel tower
   b. Bigben
   c. Hagia Sophia
   d. Opera House
   e. Taj Mahal

19. The offspring of the horse is called
   a. Cub
   b. Fawn
   c. Lamb
   d. Colt
   e. Leveret

20. Look at the goats in the pictures and choose the appropriate theme from the picture
   a. Win the heart of people
   b. Do not be foolish
   c. Try to rule over the world
   d. Fight for the right
   e. Live and let live
21. See the figure given below and fill in the blank:

Ram run ..................... the staircase.

a. Above  
b. Behind  
c. Over  
d. On  
e. up

22. See the picture carefully, it reflects on the following advice, it is

a. Where there is a will, there is a way  
b. Grapes are sour.  
c. Greed leads to unhappiness.  
d. Do good, get good.  
e. None of them.

22. See the figure given below and fill in the blank:

Guddo is ................. the table.

a. On  
b. In  
c. Under  
d. Above  
e. Behind

24. The following picture teaches us the moral:

a. Do good, get good.  
b. Where there is a will, there is a way.  
c. Greed leads to unhappiness.  
d. Grapes are sour.  
e. None of them.
25. See the figure given below and fill in the blanks:

   He is ........................ the door.

   a. Behind
   b. Below
   c. On
   d. In
   e. Above

26. See the picture carefully, it reflects one of the following advice, it is:

   a. Tit for tat
   b. Greed leads to unhappiness
   c. No pains, no gains
   d. Fight for your right
   e. Honesty is the best policy

27. See the picture, lion with a rat, it reflects one of the following summary for us, it is:

   a) Greed leads to unhappiness,
   b) Do good, have good,
   c) Live and let live,
   d) Union is strength,
   e) Use your wits in times of difficulty

28. See the figure given below and fill in the blanks

   He sits ....................... the sofa.

   a. Above
   b. Over
   c. Behind
   d. Up
   e. On
29. Look at the picture in a row. Pick up all the first letters of the objects and make word. The word corresponds to:

- Apple
- Lion
- Girl
- Ice cream
- Rabbit
- Ant
- Chicken

Options:

a. Amlirah
b. Almiarh
c. Almirah
d. Alimarah
e. Aliamrh

30. See the figure given below and fill in the blank with the help of the following:
  The baby is standing ................. his father and mother.

Options:

a. Between
b. In
c. After
d. Before
e. With

31. See the following row of picture; and fill in the blanks with appropriate preposition given below:

<table>
<thead>
<tr>
<th>Apple</th>
<th>Pillow</th>
<th>Table</th>
<th>Purse</th>
</tr>
</thead>
</table>

Tables comes .................... purse in the given row.

Options:

a. After
b. Before
c. With
d. Behind
e. None of them
32. Look at the picture and find out the odd one

a. Children are playing in the park
b. An old man is praying in the park
c. Birds are flying
d. Ladies are sitting on the benches
e. The mountains are covered with snow.

33. See the above row of picture and fill in the blank with appropriate preposition given below:

    The frock comes ………………………. the chair.

   a) with
   b) before
   c) after
   d) behind
   e) over

34. Show picture clearly pertaining to question no. 2 and fill in blank:

    The sky is …………………… our heads.

   a. Above
   b. Below
   c. Over
   d. Behind
   e. In

35. Show picture clearly pertaining in question no. 2 and fill in the blanks:

    The sun shines …………………… the sky.

   a. Above
   b. Below
   c. Over
   d. In
   e. With
36. Show picture clearly pertaining to question no. 31 and fill in blanks:

a. Up  
b. Down  
c. Before  
d. In  
e. Over

37. Look at the picture, it relates to:

a. Spiderman  
b. King Bruce and the spider  
c. King in a cave  
d. Web and king  
e. King with stones

38. Watch the following picture which predicts:

a. Follow traffic rules  
b. Always keep to the left  
c. Say no to plastic bags  
d. Grow more plants  
e. Make ourselves eco friendly with birds

39. The following picture tells us about:

a. Spread the garbage here and there  
b. Find out costly useable things from the dustbin  
c. Keep your environment clean  
d. Put the garbage in the dustbin  
e. None of them

40. The picture shows one of the following:

a. Save earth  
b. Plant tree  
c. Do entertainment  
d. Watering the plant  
e. Do manual work
41. Observe the picture carefully and find out the moral:
   a. Grapes are sour
   b. Union is Strength
   c. Honesty is the best policy
   d. God Mercury and the Woodcutter
   e. No pains, no gains.

42. Observe the following picture and choose the theme you learns:
   a. A friend in need is a friend indeed
   b. Greed is a curse
   c. Tit for tat
   d. Use your wits in times of difficulty
   e. No pains, no gains

43. Following picture reflects:
   a. Hearing the heart – beat
   b. Helping other for sleep
   c. Making love with each other
   d. Playing with each other
   e. Removing the water from the stomach

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2. TEXTUAL ASPECT (TRY-OUT FORM)

1. How did the young lady in red threaten Horace Danby?
   a. She said she would kill him with her pistol
   b. She said she would call the police
   c. She said she would call her neighbours
   d. She said she would ring up her husband
   e. None of the above

2. Why was it a temptation to keep Tricki as a permanent guest at the surgery?
   a. Because they had all started loving Tricki
   b. Because Tricki had become very friendly with the other dogs
   c. Because they could enjoy lots of things sent by Mrs Pumphery for Tricki
   d. Because Mrs. Pumphery used to send gifts for all of them
   e. None of above

3. How did the thief realize that Anil knew about the theft?
   a. The fifty-rupee note that Anil gave to the thief was still wet
   b. The fifty-rupee note that Anil had stolen was still wet
   c. Anil asked the thief how the five-rupee note had got wet
   d. Anil looked very angry when he saw the wet wad of notes
   e. None of above

4. Which of the following would be an appropriate title for the story ‘The Midnight Visitor’?
   a. Max with the gun
   b. Room with a Balcony
   c. The Clever Secret Agent
   d. Jumping over the Window-sill
   e. None of above

5. How does the poet convey the violence of the wind?
   a. It leaves behind cracked branches of the trees
   b. It growls as it blows on the roof
   c. It can drive down the roof states
   d. It washes sand from the roof
   e. All the above

6. Why did Anne decide to write a diary?
   a. She was fond of writing stories
   b. She had no close friend and felt lonely
   c. She wanted to keep a record of her teachers and school friends
   d. She had much spare time with her
   e. None of above
7. Why was Lencho angry when he counted the money he had received?
   a. He thought that God had made a mistake
   b. He thought God did not want to help him
   c. He thought the post-office people had cheated him
   d. He thought the post-office people were making fun of him
   e. All the above

8. How, according to Margie's mother, did little girls learn better?
   a. By obeying their parents
   b. By getting up early
   c. By obeying their teachers
   d. By being regular and punctual
   e. By taking the helps of computers and mechanical teachers

9. What is the central idea of the poem ‘The Road Not Taken’?
   a. The importance of living in the company of nature
   b. The importance of leaves
   c. The importance of travelling
   d. The importance of good roads
   e. The importance of making a choice

10. Evelyn’s headmistress urged her parents to take her to:
    a. A chemist
    b. A specialist
    c. A dentist
    d. A scientist
    e. A lady doctor

11. How did Bismillah Khan give the shehnai a spiritual status?
    a. He played it both at sunrise and at sunset
    b. He played it both at national and international level
    c. He played it in the courts of kings
    d. He played it on the high peaks of the Himalayas
    e. He played it in temples and on auspicious occasions

12. Name the poet of the poem ‘Wind’
    a. R. K. Narayana
    b. Robert Frost
    c. W. B. Yeats
    d. Phoebe Cary
    e. Subramaniam Bharati

13. Why did father beat Kezia with a ruler?
    a. She had disobeyed him
    b. She had talked rudely to her mother
    c. She had torn his clothes
    d. She had broken father’s table-lamp
    e. She had torn his important papers
14. Name the writer of the poem ‘Rain on the Roof’
   a. Y. B. Yeats
   b. Robert Frost
   c. Coates Kinney
   d. Subramaniam Bharti
   e. Katherine Mansfield

15. Why did Einstein write a letter to Roosevelt?
   a. To warn him how powerful the Nazis had become in Germany
   b. To warn how destructive the atomic bomb could be
   c. To tell him how the atomic bomb could be made
   d. To tell him to throw the atomic bomb on Hiroshima and Nagasaki
   e. All the above

16. Where is the poet at the time of the writing of the poem ‘The lake isle of Innisfree’
   a. In Washington
   b. In London
   c. In Paris
   d. In Switzerland
   e. In Insister

17. How did the narrator feel when the snake coiled around his left arm?
   a. He felt as if a leaden rod was piercing his heart
   b. He felt as if he was going to die
   c. He felt as if God had come there to save him
   d. He felt as if a rod of fire was crushing his arm
   e. None of the above

18. What made Saint Peter angry?
   a. The woman’s faithfulness
   b. The woman’s greed
   c. Woman’s pride
   d. The woman’s kindness
   e. The woman’s selfishness

19. Abdul Kalam’s father didn’t have…………………..
   a. Much formal education
   b. Much innate wisdom
   c. Much generosity of spirit
   d. Much formal wealth
   e. Much sense of discipline
20. Who is the writer of the poem ‘No Men Are Foreign’?
   a. James Kirkup
   b. Robert Frost
   c. W.B. Yeats
   d. Phoebe Cary
   e. Coats Kinney

21. How did Lencho describe the post office employees?
   a. Hard working persons
   b. Handsome persons
   c. Helpful persons
   d. Bunch of crooks
   e. Generous persons

22. Who became Anne’s friend and what was the friend’s name?
   a. Books and Kitty
   b. Magazine and Jackie
   c. Dairy and Kitty
   d. Newspaper and Keesing
   e. Copy and Jackie

23. Which subject did Anne find difficult?
   a. English
   b. Science
   c. Math
   d. Social Science
   e. Home Science

24. What made the thief come back to Anil in the thief’s story?
   a. The thief began to repent his action
   b. The thief had betrayed Anil’s trust
   c. Anil made him an educated person
   d. Thief won the respect for Anil
   e. The thief was in financed by the thoughts of Anil

25. What was Mr. Herriot’s strict advice to Mrs. Pumphery in ‘A triumph of surgery’?
   a. To give the dog less to eat
   b. To cut down on sweet things
   c. To give the dog plenty of exercise
   d. To give the dog plenty of milk
   e. To give the dog plenty of water

26. Who is the real culprit in the story ‘A Question of Trust’?
   a. Victor Canning
   b. Horace Danby
   c. Young pretty lady
   d. Shotover Grange
   e. Hay Fever
27. How was the boy feeling while going to the fair?
   a. Sad
   b. Unhappy
   c. Dissatisfied
   d. Gay
   e. Disturbed

28. Who shook down the dust of snow on the poet?
   a. Sparrow
   b. Crow
   c. Parrot
   d. Peacock
   e. Flamingo

29. What last voice in the zoo does the tiger hear?
   a. Sound of going visitors
   b. Sound of a train
   c. Voice of birds
   d. Sound of patrolling cars
   e. Voice of animal

30. Which country had the system ‘Apartheid’ until very recently?
   a. North America
   b. South Africa
   c. India
   d. Australia
   e. Canada

31. Who became the first black president of South Africa?
   a. Oliver Tambo
   b. Yusnt Dadoo
   c. Tony Blair
   d. Robert Sobukwe
   e. Nelson Mandela

32. What did the pilot of the old Dakota see on the way?
   a. Huge clouds in the sky
   b. Birds flying
   c. Flowing rivers
   d. High mountains
   e. Huge ocean

33. Where did the young seagull pass the night?
   a. On a tree
   b. On a mountain
   c. In his ledge
   d. On a rock
   e. In his room
34. How did the postmaster look?
   a. Hard and cruel
   b. Tall and strong
   c. Thin and serious
   d. Fat and amiable
   e. None of the above

35. According to Anne, who has more patience than people?
   a. Paper
   b. Children
   c. Teachers
   d. Parents
   e. Friends

36. Where did the author land safely?
   a. In the fields
   b. In a forest
   c. On an airport
   d. He could not land
   e. In a stadium

37. Who was Wanda Petronski?
   a. A Polish girl
   b. Jewish girl
   c. A Chriatian girl
   d. A muslim girl
   e. A hindu girl

38. What dress Wanda used to wear everyday in the school?
   a. A pink dress
   b. A faded blue dress
   c. A black dress
   d. A red expensive dress
   e. A white dress

39. Which is the noble beast according to the poet in the poem ‘How to Tell Wild Animals’?
   a. A tiger
   b. An Asian Lion
   c. A bear
   d. A leopard
   e. All the above

40. What does Amanda think to be?
   a. A mermaid
   b. A good girl
   c. An obedient girl
   d. A brave girl
   e. A happy girl
41. What did the boy do after he lost his ball?
   a. He went to home
   b. He began to weep
   c. He bought another ball
   d. He stood rigid staring down
   e. None of the above

42. Where did Mr. Herriot take Tricki?
   a. To his clinic
   b. To a public hospital for vets
   c. To Mrs. Pumphery’s house
   d. No where
   e. To his friend’s clinic

43. Why did Horace rob a safe every year
   a. To support his family
   b. To live in style
   c. To live comfortably
   d. To buy new cars
   e. To buy rare and valuable books

44. What did the military generals do with Mandela at the time of the inauguration?
   a. They saluted him
   b. They tried to arrest him
   c. They rebuked him
   d. They cheered him
   e. They ignored him

45. Who is the poet of the poem “The Ball Peom”?
   a. Robert Frost
   b. William Wordsworth
   c. W. H. Anden
   d. John Berryman
   e. Carolyn Wells

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Scoring Key (Try out)

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3. COMPREHENSION ASPECT (TRY-OUT FORM)

PASSAGE -1

There are six unseen passage of 100-150 words each with a variety of objective type multiple-choice question. Read each passage and write the correct option from the alternatives given below-

One day and old lady was travelling alone in the first class compartment of a train. She was very well-dressed. She was sitting quietly in a corner and was reading a book. A travelling ticket examiner came into the compartment and asked for the ticket. The old lady looked in her bag for the ticket but couldn't find it. She then looked for it among her other things. She could not find the ticket there also. So she got very worried. She said to the ticket examiner, "Will you please pull the chain and stop the train? I've lost my ticket.", The ticket examiner said, “Please don't worry. I know you are an honest woman.” “You don't understand,” said the old lady, “if I don't find my ticket, how shall I know where I have to get off?”

Tick the correct answer from the alternatives given below each question.

1. Who was travelling with old lady?
   a. Her husband
   b. Her son
   c. Her daughter
   d. None

2. What was the old lady doing when the TTE came in?
   a. She was sleeping
   b. She was knitting
   c. She was talking
   d. She was reading a book

3. What did the old lady look for in her bag?
   a. Her money
   b. Her purse
   c. Her ticket
   d. Her ornaments

4. What did the old lady want the ticket examiner to do?
   a. To pull the chain and stop the train
   b. To stop the train and pull the chain
   c. To stop the train and find her ticket
   d. To pull the chain and find the ticket

5. Why did the old lady want to stop the train?
   a. To go back home
   b. To have a new ticket
   c. To find her lost ticket
   d. To bring up her son
6. Why did the ticket examiner not charge any money from the woman?
   a. He thought she was a poor woman
   b. He thought she was an honest woman
   c. He thought she had lost her purse
   d. He thought she had her ticket in her bag

7. Why did the old woman want to find her lost ticket?
   a. She had no money for another ticket
   b. She could know from the ticket where she was to get off,
   c. She wanted to show it to the TTE
   d. She wanted to show that she was an honest woman

8. Don’t get ……………. the train while it is moving.
   a. Of
   b. Off
   c. From
   d. Below

PASSAGE - 2

My elder brother was five years older than me but he was only three classes ahead. He had begun his studies at the same age as I had, but he did not like the idea of moving too hastily in an important matter like education. He wanted to lay a firm foundation, so he took two years to do one year’s work, sometimes even three. “If the foundation was not strong, how could the building be stout?” he used to say. I was the younger, he was the elder. I was nine, he was fourteen. So he had full right by virtue of his seniority to supervise and instruct me. I was expected to accept every order of his as a law. By nature he was very studious. He was always sitting with a book open. And perhaps to rest his brain he would sometimes draw pictures of birds, dogs and cats in the margin of his book.

Tick the correct answer from the alternatives given below each question.

9. By how many years was the writer’s brother older than him?
   a. Five
   b. Three
   c. Eight
   d. Eleven

10. What idea related to education did the writer’s brother not like?
    a. To take two years for each class
    b. To take three years for each class
    c. To move too hastily from one class to the next
    d. To stay in the same class for ever
11. Why would the brother spend two or three years in each class?
   a. To make the foundation strong
   b. To increase the number of his friends
   c. To become the monitor of his class
   d. To play games and enjoy life

12. What right did the elder brother think he had?
   a. To supervise and instruct the younger brother
   b. To beat the younger brother
   c. To take all the things of the younger brother
   d. To check the homework done by the younger brother

13. What shows that the elder brother was studious?
   a. He had always a book in the bag
   b. He had always a book open before him
   c. He spent a lot of money on books
   d. He went to the library daily

14. What did the elder brother do to rest his brain?
   a. He would lie down and sleep for some time
   b. He would go out and sit in the park
   c. He would play with the younger brother for some time
   d. He would draw pictures of birds, dogs and cats in the margin of his book.

15. What does the word 'studious' mean?
   a. Spending too much money on books
   b. Having a lot of books to study
   c. Spending lot of books to study
   d. Spending no time on studies

16. Give the opposite of 'senior'
   a. Superior
   b. Inferior
   c. Junior
   d. Interior

PASSAGE – 3

It was two weeks before Diwali and Mrs. Sharma was very busy. She bought a lot of Diwali cards to send to her friends and to her husband’s friends. She put them on the table in the living-room. When her husband came home from work, she said to him, “Here are the Diwali cards for our friends. Here are some stamps, a pen and our books of addresses. Will you please write the cards while I am cooking the dinner?”
Mr. Sharma did not say anything. He walked out of the living-room and went to his study. Mrs. Sharma felt very angry with him, but she did not say anything. A minute later, Mr. Sharma came back with a box full of Dipawali cards. All of them had addresses and stamps of them. “These are from last year,” he said, “I forgot to post them.”

Tick the correct answer from the alternatives given below each question.

17. When was Mrs. Sharma very busy?
   a. On the day of Dipawali
   b. Two weeks before Dipawali
   c. Two weeks after Dipawali
   d. During the days of Christmas

18. What did she buy?
   a. Dipawali cards
   b. Dipawali gifts
   c. Dipawali cards
   d. Christmas gifts

19. Where did she put the cards?
   a. In the living-room on the table
   b. On the table in the living – room
   c. On the living-room in the table
   d. In the table on the living-room

20. What did she say to her husband?
   a. To post the Dipawali cards
   b. To write the Dipawali cards
   c. To buy the Dipawali cards
   d. To put the Dipawali cards on the table

21. Who was the Mrs. Sharma angry with?
   a. Her husband
   b. Her neighbor
   c. Her friend
   d. Her servant

22. What did Mr. Sharma bring from his study?
   a. A Dipawali card
   b. A box full of Dipawali card
   c. A box full of addresses and stamps
   d. Nothing

23. What is a ‘living-room’?
   a. A room where one lives
   b. A room where one sleeps
   c. A room where one entertains guests
   d. A room in one’s house for general use during the day
24. She bought ‘a lot of’ Dipawali cards. Here ‘a lot of’ means-
   a. a large quantity of
   b. a large number of
   c. a big heaps of
   d. a big amount of

PASSAGE – 4

There has been a tremendous rise in the population of Delhi during the last few decades. It has resulted in the building of a large number of housing complexes in and around Delhi. The city has also seen the rapid growth of industries. The discharge of domestic and industrial waste into the water of the river Yamuna is responsible for causing deterioration in the quality of its water every year. The water contains bacteria which can cause diseases such as cholera, dysentery, hepatitis, jaundice, typhoid and diarrhoea. The vegetables grown in the bed of the Yamuna, too, contain toxic and harmful elements. The river has thus become almost useless in meeting the daily requirements of people for purposes of drinking, bathing, fishing and irrigation.

Tick the correct answer from the alternatives given below each question,

25. What has happened to the population of Delhi in the last few decades?
   a. It has become very rich
   b. It has increased tremendously
   c. It has become highly educated
   d. It has spread many diseases

26. Why have a large number of housing complexes come up in Delhi?
   a. It has been due to the increasing demands of the people
   b. It has been due to the lack of space in Delhi
   c. It has been due to the rapid growth of industries
   d. It has been due to tremendous increase in its population

27. What has polluted the Yamuna?
   a. The discharge of domestic waste into its water
   b. The discharge of industrial waste into its water
   c. Both A and B
   d. Neither A and B

28. Why is the water of the Yamuna not safe for human consumption?
   a. It has in it many dangerous fish
   b. It has in it the ashes of dead people
   c. It has in it bones and a lot of sand and mud
   d. It has bacteria that can cause many diseases
29. For what daily requirements do people need the water of the Yamuna?
   a. Drinking
   b. Bathing
   c. Fishing and irrigation
   d. All the above

30. What is ‘Hepatitis’?
   a. It is a serious disease of the eyes
   b. It is a serious disease of the liver
   c. It is a serious disease of the brain
   d. It is a serious disease of the heart

31. What do you mean by a ‘decade’?
   a. A period of one year
   b. A period of five years
   c. A period of ten years
   d. A period of hundred years

PASSAGE – 5

The water of the river Yamuna in Delhi has become useless. The water of this river is most polluted and has received ‘E’ grade in terms of quality. This is the lowest grade which indicates the severity of pollution in the river water. Some fifty years ago, the water of the Yamuna was clear and clean. Many water plants such as weeds, algae and shrubs grew in its water or along the bank of the river. These plants were the main source of food for aquatic creatures. A number of water birds could be seen along the river. With the onset of winter thousands of migratory birds would come here to feed in the Yamuna water. Sadly, these water species and bird have vanished now. What one find now are red worms which live in the most unhygienic and polluted water.

Tick the correct answer from the alternatives given below each question.

32. What has happened to the water of the Yamuna?
   a. It has become useless
   b. It has become polluted
   c. It has received ‘E’ grade in terms of quality
   d. All the above

33. What used to be the condition of the Yamuna fifty years ago?
   a. Its water used to be clear and clean
   b. Many weeds and shrubs grew in it and served as food for water animals
   c. Many water birds could be seen along its course
   d. All the above

34. At what time of the year did migratory birds come to the Yamuna?
   a. At the end of winter
   b. At the beginning of winter
   c. In the middle of winter
   d. At the end of summer
35. What has been the result of severe pollution of the Yamuna?
   a. Migratory birds no longer come here
   b. No water birds are seen along its course
   c. Red worms are seen everywhere in it
   d. All the above

36. Where do red worms live?
   a. In cold water
   b. In hot water
   c. In muddy water
   d. In most unhygienic and polluted water

37. What is the main source of food eaten by aquatic creatures?
   a. Red worms
   b. Fish and other water animals
   c. Migratory birds and water birds
   d. Weeds, algae and shrubs growing in water

38. What are aquatic creatures?
   a. Creatures living in water
   b. Creatures living in trees
   c. Creatures living in land
   d. Creatures living in unhygienic conditions

39. What is meant ‘algae’?
   a. Tall trees
   b. Bushy plants
   c. Green leaves of trees
   d. Plants without leaves found in water.

PASSAGE – 6

When the Nazis came to power in Germany in 1933, Einstein emigrated to the United States. Five years later, the discovery of nuclear fission in Berlin had American physicists in an uproar. Many of them had fled from fascism, just as Einstein had, and now they were afraid the Nazis could build and use an atomic bomb.

Tick the correct answer from the alternatives given below each question.

40. What big change took place in Germany in 1933?
   a. The Nazis lost their power
   b. The Nazis came to power
   c. The Nazis left the country
   d. The Nazis brought an end to fascism
   e. None
41. What did Einstein do when the Nazis came to power?
   a. He came to Berlin
   b. He emigrated to Germany,
   c. He emigrated to the United States
   d. He left the United States
   e. None

42. When was the discovery of nuclear fission made in Berlin?
   a. In 1933
   b. In 1934
   c. In 1936
   d. In 1938
   e. None

43. What put the American physicist in an uproar?
   a. The coming of Nazis to power
   b. The discovery of nuclear fission in Berlin
   c. The use of atomic bomb in Berlin
   d. The rule of fascism in Germany
   e. None

44. Why had Einstein and other physicists fled from Germany?
   a. It was due to the discovery of nuclear fission
   b. It was the fear of the atomic bomb
   c. It was their fear of fascism
   d. It was their fear of the war
   e. None

45. What was an American physicists afraid of?
   a. It was a fear of fascism
   b. Coming of Nazis to power
   c. Nazis could build and use an atom
   d. The discovery of nuclear fission in Berlin
   e. None

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4. GRAMMAR & USAGE ASPECT (TRY-OUT FORM)

Note – All the questions are compulsory. Each question carries equal mark.

Write the correct option from the alternatives given below each question.

1. What …………….. the moon go round the Earth?
   a. Made
   b. Making
   c. Had made
   d. Has made
   e. Makes

2. Look! Smoke ……………. out of that window.
   a. Had come
   b. Has come
   c. Was coming
   d. Is coming
   e. Came

3. I ………………… to this town in 1980.
   a. Did not rain
   b. Is not raining
   c. Do not rain
   d. Does not rain
   e. Has not rain

4. It ……………… heavily last summer.
   a. Did not rain
   b. Is not raining
   c. Do not rain
   d. Does not rain
   e. Has not rain

5. As I ……………to my school, I met an old friend of mine.
   a. Was going
   b. Go
   c. Had gone
d. Have one  
e. Went

6. He ................... on his clothes when the bell rang.  
   a. Has not put  
   b. Had not put  
   c. Did not put  
   d. Do not put  
   e. Does not put

7. This is February. Then the next month ................. March.  
   a. Is  
   b. Will be  
   c. Was  
   d. Were  
   e. Are

8. You .................my money just now?  
   a. Will (you) please return  
   b. Did (you) please return  
   c. Had (you) please returned  
   d. Do (you) please return  
   e. Have (you) please return

9. I ....................... the whole book before you come back.  
   a. Has read  
   b. Had read  
   c. Am reading  
   d. Will have read  
   e. Was reading

10. I ....................... for three hours when the lights went off.  
    a. Had been studying  
    b. Have been studying  
    c. Have studied  
    d. Had studied  
    e. Studied
11. Deepak would have killed the snake if he ……………… it.
   a. Sees
   b. Saw
   c. Had seen
   d. Seeing
   e. Have seen

12. The driver ……………….. to have been more careful.
   a. May
   b. Ought
   c. Must
   d. Should
   e. Could

13. He…………………. not come to my house.
   a. Shall dare
   b. Dare
   c. Will dare
   d. Dares
   e. Is dare

14. ………………… the candle, please.
   a. Blow off
   b. Blow out
   c. Blow in
   d. Blow up
   e. Blow down

15. The noise ………….. my attention.
   a. Draws in
   b. Draws up
   c. Draws over
   d. Draws on
   e. Draws off
16. I saw him ................... the door.
   a. Opens
   b. Open
   c. Opened
   d. To open
   e. Opening

17. I would rather ............. than beg.
   a. Die
   b. To die
   c. Dies
   d. Died
   e. Dying

18. The rice will grow well in the ................. season.
   a. Coming
   b. Come
   c. To come
   d. Having come
   e. Came

19. The coach made us ....................
   a. Running
   b. To run
   c. Run
   d. Runs
   e. To running

20. My father said to me, “I am not feeling well that day.”
   a. My father told me that he is not feeling well that day.
   b. My father told me that he was not feeling well today.
   c. My father told me that he was not feeling well that day.
   d. My father told me he had not been feeling well that day.
21. The general said to the soldiers, “March quickly.”
   a. The general ordered the soldiers to march quickly.
   b. The general ordered to the soldiers to march quickly.
   c. The general requested the soldiers to march quickly.
   d. The general said to the soldiers to march quickly.
   e. The general prayed to the soldiers to march quickly.

22. My friend said, “Alas! My cousin has lost his mother.”
   a. My friend exclaimed with sorrow that his cousin had lost his mother.
   b. My friend exclaimed with sorrow his cousin has lost his mother.
   c. My friend exclaimed that his cousin has lost his mother.
   d. My friend said – that his cousin has lost his mother.
   e. My friend told that his cousin has lost his mother.

23. I said to Mohan, “It is a beautiful sight.”
   a. I told to Mohan it was a beautiful sight.
   b. I said to Mohan it was a beautiful sight.
   c. I explained to Mohan that it was a beautiful sight.
   d. I told Mohan that it is a beautiful sight.
   e. I told Mohan that it was a beautiful sight.

24. Had he worked hard, he ……………….. have passed.
   a. Will
   b. Would
   c. Should
   d. Must
   e. Shall

25. ……………….. you prosper in life!
   a. Will
   b. May
   c. Can
   d. Should
   e. Would
26. He works hard so that he .......... pass.
   a. Can
   b. Could
   c. May
   d. Might
   e. Would

27. He waited for ................. hour.
   a. An
   b. A
   c. The
   d. One
   e. None

28. ................. Ganga is a holy river.
   a. An
   b. A
   c. The
   d. Pious
   e. None

29. Please tell me ................. time.
   a. An
   b. A
   c. The
   d. All
   e. None

30. Choose the one which best expresses the meaning of black and white.
   a. Simple expression
   b. Colorless way
   c. Pictorial shape
   d. Written form
   e. Mock expression
31. Choose the one which best expresses the meaning of : from hand to mouth.
   a. In miserly conditions
   b. In an independent way
   c. Without any provision for the future
   d. Without any regard for ideals
   e. With sound future

32. The meaning of : To bell the cat is:
   a. To give a medal to a cat
   b. To make a cat a pet animal
   c. To do something dangerous
   d. To chase away a cat
   e. None

33. Good cutlery ................. expensive.
   a. Is
   b. Are
   c. Have
   d. Were
   e. None

34. Ill news .......... fast.
   a. Travel
   b. Travels
   c. Is travelling
   d. Was travelling
   e. None

35. An epidemic of measles ............. broken out in the district.
   a. Are
   b. Were
   c. Has
   d. Have
   e. Shall
36. I would like my watch .................
   a. Repair
   b. Repaired
   c. To repair
   d. Repairing
   e. Repairs

37. He bought a ................. scooter.
   a. Damage
   b. To damage
   c. Damaging
   d. Damaged
   e. None

38. I made him................. his own clothes.
   a. Wash
   b. To wash
   c. Washing
   d. Washed
   e. None

39. I called ................. his house this morning.
   a. For
   b. On
   c. Upon
   d. At
   e. None

40. She has not ................. blue sarees.
   a. Much
   b. The
   c. An
   d. Many
   e. None
41. Choose the correct answer to combine the given pairs of sentences:
   She said something. I did not hear it.
   a. I did not hear why she said
   b. I did not hear what she said
   c. I did not hear how she said
   d. I did not hear when she said

42. He said to Reena, “May you live long!.”
   a. He prayed Reena must live long.
   b. He prayed that Reena might live long.
   c. He prayed Reena may live long.
   d. He said that Reena might live long.
   e. None

43. I said to him, “Do you want to sit in the competition?”
   a. I asked him that if he wanted to sit in the competition.
   b. I asked him if he wanted to sit in the competition.
   c. I asked him if he wants to sit in the competition.
   d. I asked him if he wanted to sit in the competition.
   e. None

44. The EBB and flow of the tides ..................... explained by Newton.
   a. Were
   b. Was
   c. Are
   d. Has
   e. None

45. A match ............. by me.
   a. Is play
   b. Are played
   c. Have played
   d. Is being played
   e. None
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5. VOCABULARY & SPELLING ASPECT (TRY-OUT FORM)

There are five options for each word. You have to choose the correct meaning of the word from the given options:

1. Meaning of the word simultaneous is:
   a. Happening at the same moment.
   b. Never happened
   c. Happening at the same time
   d. About to happen
   e. None of these

2. Paradise means-
   a. Heaven
   b. Hell
   c. Good place
   d. Bad place
   e. None of these

3. Compassion should mean-
   a. Love
   b. Strong feeling of sympathy
   c. Affection
   d. Sympathy
   e. None of these

4. Find out the correct meaning of Terrifying –
   a. Horrifying
   b. Dangerous
   c. Uncivilized
   d. Dreadful
   e. None of the above

5. Indication means –
   a. Mark
   b. Referring
   c. Making a sign
   d. Showing
   e. None of these
6. The word ‘optimism’ has the meaning –
   a. Good feelings
   b. A feeling that good things will happen
   c. Pessimism
   d. Belief in fortune
   e. None

7. The word ‘innocence’ should mean –
   a. Guilty
   b. Harmless
   c. Cruel
   d. Faultless
   e. None of these

8. Delight has the meaning –
   a. Pleasure
   b. Comfort
   c. Happiness
   d. Glee
   e. All of the above

9. Find out the correct meaning of the word ‘astonishment’
   a. Very surprising
   b. Excitement
   c. Extasy
   d. Bewilderment
   e. All the above

10. The word ‘chirping’ means –
    a. To make short high sounds
    b. Whirr
    c. Barking
    d. Roaring
    e. All the above
11. The meaning of the word 'vast' is –
   a. Large
   b. Big
   c. Limitless
   d. Huge
   e. None of the above

12. 'Ruin' means –
   a. Damage
   b. Destruction
   c. Devastation
   d. Construction
   e. All of these

13. 'Reinforced' has the meaning –
   a. To make something weak
   b. To make an idea strong
   c. Strengthened
   d. Decrease
   e. None of these

14. 'Giant' should mean –
   a. A large cruel person
   b. Monster
   c. Goblin
   d. Ghost
   e. All of these

15. The meaning of 'Disaster' is –
   a. Ruin
   b. Catastrophe
   c. Damage
   d. Construct
   e. None of the above
16. Find out the correct meaning of ‘Decorate’ –
   a. Adorn
   b. Catastrophe
   c. Deconstruction
   d. Attractive
   e. All of these

17. The correct meaning of ‘complicated’ is –
   a. Collision
   b. Difficult to understand
   c. Inseparable
   d. Separate
   e. All of the above

18. ‘Solitary’ means –
   a. Lonely
   b. Haunted
   c. Unknown
   d. Strange
   e. All of the above

19. ‘Absorb’ should mean –
   a. Heat
   b. Observe
   c. Imbibe
   d. Interested
   e. None of above

20. ‘Roared’ implies the meaning –
   a. Chide
   b. Making sound loudly
   c. Highly
   d. None of the above
   e. None of these
21. ‘Delicious’ should mean –
   a. Pleasant
   b. Tasty
   c. Tasteless
   d. Palatable
   e. All of these

22. The exact meaning of ‘exhausted’ is –
   a. Weary
   b. Fatigued
   c. Restless
   d. Completely tired
   e. All of the above

23. ‘Shivering’ means –
   a. Gasping
   b. Trembling
   c. Harassed
   d. Breathless
   e. All of the above

24. ‘Flattery’ should mean –
   a. Praising
   b. False praise
   c. Extol
   d. Complement
   e. None of the above

25. Find out the meaning of the word ‘Temptation’ –
   a. Seduction
   b. Attraction
   c. Greed
   d. None of the above
   e. All of the above
26. Find out the correct spelling of following –
   a. Neumonia
   b. Pneumonia
   c. Kneumonia
   d. Pneumaunia
   e. Numonia

27. Find out the correct word –
   a. Comission
   b. Commision
   c. Comision
   d. Commission
   e. Commition

28. Which one of the following is correct –
   a. Cornel
   b. Cornal
   c. Colonel
   d. Carnal
   e. Carnol

29. Find out the correct word –
   a. Lieutenant
   b. Leutenant
   c. Liutenant
   d. Lieutenent
   e. Liutenant

30. Find out the correct word –
   a. Commitee
   b. Committe
   c. Comittee
   d. Comitee
   e. Committee
31. Find out the correct word –
   a. Neumatic
   b. Pneumatic
   c. pnumatic
   d. pnaumatic
   e. pneumtik

32. Find out the correct word –
   a. Vacum
   b. Vaccum
   c. Vacuum
   d. Vacoom
   e. Vacuum

33. Find out the correct word –
   a. Harasment
   b. Harassment
   c. Harrssment
   d. Harusment
   e. Harresment

34. Find out the correct word –
   a. Ocurrence
   b. Ocurrance
   c. Ocurrance
   d. Occurrence
   e. Occurrence

35. Find out the correct word –
   a. Contamtous
   b. Contemtus
   c. Contemtous
   d. Contemptuous
   e. Contemteous
36. Find out the correct word –
   a. Scrapulous
   b. Scrupulos
   c. Scrupulus
   d. Scrupalous
   e. Scrupulous

37. Find out the correct word –
   a. Connoisseur
   b. Canoisseur
   c. Connoisseur
   d. Cannoiseur
   e. Connoiseur

38. Find out the correct word –
   a. Embarrassing
   b. Embarassing
   c. Embarrassing
   d. Embarasing
   e. Embrrsing

39. Find out the correct word –
   a. Miscellaneous
   b. Miscellaneous
   c. Miscellanaous
   d. Miscellaneous
   e. Miscellaneous

40. Find out the correct word –
   a. Concession
   b. Cancesion
   c. Cancession
   d. Cancussion
   e. Concesion
41. Find out the correct word –
   a. Reverened
   b. Revarened
   c. Reveranad
   d. Revecnad
   e. Reverend

42. Find out the correct word –
   a. Ruf
   b. Rugh
   c. Rough
   d. Rouf
   e. Raugh

43. Find out the correct word –
   a. Forfit
   b. Farfeit
   c. Forfeet
   d. Forfeit
   e. Farfit

44. Find out the correct word –
   a. Miscellaneous
   b. Miscellaneous
   c. Miscellanus
   d. Mescellanous
   e. Miscellaneous

45. Find out the correct word –
   a. Harmonious
   b. Harrmonious
   c. Harmoious
   d. Harmonios
   e. Harmaious
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6. COMPOSITIONAL ASPECT (TRY-OUT FORM)

1. The sender’s address in a letter contain:
   a. Name of sender’s organization
   b. Name of sender’s city
   c. No punctuation marks
   d. All above
   e. Name of receiver

2. What form of salutation we use for relatives:
   a. Dear
   b. Respected
   c. Sir/Madam
   d. All above
   e. None above

3. What does the body of letter contains:
   a. Sender’s address
   b. Receiver’s address
   c. Context & expression
   d. Salutation
   e. All above

4. Which of the following is right:
   a. January 10, 2006
   b. January 10, 2006
   c. 2006 January 10
   d. 10, 2006 January
   e. All above

5. Which of the following is more important in receiver’s address in formal letter writing:
   a. Designation
   b. Official address
   c. Name of the city
   d. All above
   e. None of these
6. Which is the most prominent tense to be used in Report writing:
   a. Past Tense
   b. Present Tense
   c. Future Tense
   d. Both past and present
   e. All

7. What is a type of letter writing?
   a. Formal
   b. Informal
   c. Letters of application
   d. All
   e. Formal and Informal

8. What is report writing?
   a. Narration of the incident which has taken place already
   b. Narration of the incident which is to take place
   c. Both (a) & (b)
   d. Narration of an imaginary incident
   e. None of these

9. Paragraph writing needs:
   a. A sequence of event
   b. Precise matter
   c. Clarity
   d. All
   e. Only (a) & (b)

10. Paragraph writing contain:
    a. Present Tense
    b. Past Tense
    c. Future Tense
    d. All
    e. None of above
11. Report writing bears:
   a. Name of the writer
   b. Name of the publishing agency
   c. Date
   d. Name of place
   e. All

12. While drafting advertisement, it should avoided:
   a. Long sentences and difficult or heavy words
   b. Misleading the readers
   c. None of these
   d. Both (a) & (b)
   e. All above

13. A report is:
   a. A detailed information
   b. A first hand information
   c. An informal information
   d. None of the above
   e. All above

14. An interview is:
   a. An informal meeting
   b. Only one to one meeting
   c. A formal meeting
   d. Only many to one meeting
   e. All above

15. Conversation is an informal talk:
   a. One to one
   b. One to many
   c. Many to one
   d. All the above
   e. Both (a) & (b)
16. The language of the notice should be:
   a. Completely personal
   b. Completely impersonal
   c. Partial personal
   d. None of the above
   e. Both (b) & (c)

17. Name of the organization issuing a notice should be:
   a. In small letter
   b. As per the writer’s choice
   c. In capital letter
   d. In both capital and small letters
   e. All the above

18. Choose the correct sequence for ‘Notice writing’:
   a. Signature/ Name/ Designation
   b. Name/ Signature/ Designation
   c. Signature/ designation/ Name
   d. Designation/ Signature/ Name
   e. All the correct

19. Message is always written in:
   a. Direct speech
   b. Indirect speech
   c. Both (a) & (b)
   d. None of the above
   e. Passive form

20. Following is not correct for message writing:
   a. Message is placed in a box
   b. Address of the sender or the receiver
   c. Name of the writer
   d. Time and date
   e. All the above
21. Following is not a kind of letter:
   a. Personal letter
   b. Business letter
   c. Official letter
   d. Capital letter
   e. Application

22. Interviews and conversations are always written in:
   a. Direct speech
   b. Indirect speech
   c. Paragraphs
   d. All the above
   e. None of the above

23. A story is always written:
   a. Randomly
   b. Sequence wise
   c. As per the writer’s choice
   d. Character wise
   e. Background wise

24. What is the main aim of advertisement?
   a. To promote sales
   b. To enhance knowledge
   c. To add colors in newspaper
   d. All above
   e. None of the above

25. While drafting an advertisement, what type of language should be used to attract leaders:
   a. Use of catchy words
   b. Use of simple words
   c. Use of effective language
   d. Brief write-ups
   e. All above
26. ‘Situation wanted’ is the title for the advertisement:
   a. For a job
   b. For sale and purchase
   c. For inviting employees
   d. For a and b
   e. None of above

27. While designing an advertisement we should use:
   a. Different sizes of words
   b. Important matter in bold or bigger letters
   c. A suitable name of the product
   d. Brief size
   e. All above

28. What are the chief qualities of a report?
   a. Brief
   b. To the point
   c. Systematic
   d. Written in past tense
   e. All above

29. What are the tips for effective writing skills:
   a. Organizing ideas
   b. Developing cohesion and style
   c. Revise and Ensure
   d. Appropriate use of words
   e. All above

30. Organizing ideas means:
   a. Limit the information in a paragraph
   b. Relevance of ideas
   c. Fluency
   d. Punctuation marks and capitalization
   e. All the above
31. What type of stimulus can be provided for writing speeches and articles:
   a. Visual stimulus
   b. Verbal stimulus
   c. Both (a) & (b)
   d. None of the above
   e. Touch stimulus

32. What are the features of a good story:
   a. The beginning
   b. Background of action
   c. Characters
   d. Plot of the story
   e. All above

33. A good report contains:
   a. A catchy heading at the top
   b. Name of the narrator
   c. Place and date
   d. All the above
   e. None of the above

34. What are the types of reports:
   a. Reports for newspaper
   b. Reports for school magazines
   c. Reports for journals
   d. Both (a) & (b)
   e. None of the above

35. The context of a report contains following points:
   a. When
   b. Where
   c. Why
   d. All
   e. None
36. In every story, there are:
   a. Definite number of characters
   b. Indefinite number of characters
   c. A particular type of characters
   d. None of the above
   e. As per demand of the story

37. While writing a title:
   a. All words start with small letters
   b. All words start with capital letters
   c. Other than conjunctions, all words start with small letters
   d. As per writer’s choice
   e. All above

38. All the proper nouns start with:
   a. A capital letter
   b. A small letter
   c. As per the writer’s choice
   d. Not defined
   e. None of the above

39. Tick the international style of writing date:
   a. 19/07/92
   b. 07/19/92
   c. July 19, 92
   d. 19 July, 92
   e. 92/07/19

40. Letter to a friend is a type of:
   a. Business letter
   b. Personal letter
   c. Formal letter
   d. None of these
   e. All the above
41. It helps in giving information to a large number of people without having to circular it individually …………..
   a. Message
   b. Report
   c. Advertisement
   d. Notice
   e. All the above

42. You are going to launch a new washing soap. Hence you need write:
   a. A message
   b. A report
   c. An advertisement
   d. A notice
   e. Any of the above

43. If I were the Prime Minister of India is:
   a. A descriptive essay
   b. A narrative essay
   c. A reflective essay
   d. An imaginative essay
   e. An argumentative essay

44. You have found a watch in the school library. Need to write :
   a. A report
   b. A message
   c. An advertisement
   d. A notice
   e. Any of the above

45. You had a telephonic conversation with Mr. Rakesh a friend of your father. He left some important information with you for your father. You have to go to market. So you have to write :
   a. A message
   b. A report
   c. An advertisement
   d. A notice
   e. None of the above
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APPENDIX - B

Test No. 1 (Pictorial Aspect)
(Try-out Test)

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**Test No. 2 (Textual Aspect)**

*(Try-out Test)*

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* Selection of final item have been marked with an asterisk.
1. PICTORIAL ASPECT (FINAL FORM)

1. The following figure shows the bird
   a. Vulture
   b. Ostrich
   c. Hawk
   d. Wood – peeker
   e. Partridge

2. See the figure given below and fill in the blanks:

   He is .................... the door.
   a. Behind
   b. Below
   c. On
   d. In
   e. Above

3. The offspring of the horse is called
   a. Cub
   b. Fawn
   c. Lamb
   d. Colt
   e. Leveret

4. Look at the goats in the pictures and choose the appropriate theme from the picture
   a. Win the heart of people
   b. Do not be foolish
   c. Try to rule over the world
   d. Fight for the right
   e. Live and let live

5. See the figure given below and fill in the blank:

   Guddo is .................... the table.
   a. On
   b. In
   c. Under
   d. Above
   e. Behind
6. See the picture carefully, it reflects one of the following advice, it is:
   a. Tit for tat
   b. Greed leads to unhappiness
   c. No pains, no gains
   d. Fight for your right
   e. Honesty is the best policy

7. Following picture reflects:
   a. Hearing the heart – beat
   b. Helping other for sleep
   c. Making love with each other
   d. Playing with each other
   e. Removing the water from the stomach

8. The picture shows one of the following:
   a. Save earth
   b. Plant tree
   c. Do entertainment
   d. Watering the plant
   e. Do manual work

9. Which activity is being performed by the children in figure?
   a. Playing
   b. Quarrelling
   c. Gardening
   d. Watering the plants
   e. Observing the gardening

10. What is the teacher doing in the figure?
    a. Playing with students
    b. Reading the letter
    c. Childing the students
    d. Entertaining the students
    e. Teaching the students
11. See the picture, lion with a rat, it reflects one of the following summary for us, it is:
   a. Greed leads to unhappiness,
   b. Do good, have good,
   c. Live and let live,
   d. Union is strength,
   e. Use your wits in times of difficulty

12. Look at the picture in a row. Pick up all the first letters of the objects and make word. The word corresponds to :
   a. Amlirah
   b. Almiarh
   c. Almirah
   d. Alimarrah
   e. Aliamrh

13. How do the sparrow babies cry?
   a. Twitter
   b. Coo
   c. Scream
   d. Purr
   e. Hoot

14. See the above row of picture and fill in the blank with appropriate preposition given below:
   The frock comes ......................... the chair.
   a. with
   b. before
   c. after
   d. behind
   e. over
15. Show picture clearly pertaining to question no. 9 and fill in blank:

The sky is ......................... our heads.

a. Above
b. Below
c. Over
d. Behind
e. In

16. Show picture clearly pertaining in question no. 9 and fill in the blanks:

The sun shines ....................... the sky.

a. Above
b. Below
c. Over
d. In
e. With

17. Look at the picture, it relates to :

   a. Spiderman
   b. King Bruce and the spider
   c. King in a cave
   d. Web and king
   e. King with stones

18. Look at the picture and find out the odd one

   a. Children are playing in the park
   b. An old man is praying in the park
   c. Birds are flying
   d. Ladies are sitting on the benches
   e. The mountains are covered with snow.

19. The dry fruit shown in the figure is

   a. Chestnut
   b. Cashewnut
   c. Raisin
   d. Apricot
   e. Almond
20. Following figure relate to one of the seven wonder of today is
   a. Eiffel tower
   b. Bigben
   c. Hagia Sophia
   d. Opera House
   e. Taj Mahal

21. See the following row of picture; and fill in the blanks with appropriate preposition given below:

   apple  pillow  table  purse

   Tables comes .................... purse in the given row.
   a. After
   b. Before
   c. With
   d. Behind
   e. None of them

22. See the figure given below and fill in the blank with the help of the following:

   The baby is standing ............... his father and mother.
   a. Between
   b. In
   c. After
   d. Before
   e. With

23. Observe the picture carefully and find out the moral:
   a. Grapes are sour
   b. Union is Strength
   c. Honesty is the best policy
   d. God Mercury and the Woodcutter
   e. No pains, no gains.
24. Show picture clearly pertaining to question no. 31 and fill in blanks:
   a. Up
   b. Down
   c. Before
   d. In
   e. Over

25. Watch the following picture which predicts:
   a. Follow traffic rules
   b. Always keep to the left
   c. Say no to plastic bags
   d. Grow more plants
   e. Make ourselves eco friendly with birds

26. The name of the flower shown in the figure is
   a. Chrysene the mum
   b. Narcissus
   c. Magnolia
   d. Jasmine
   e. Daisy

27. Name the article which is shown in the figure
   a. Tongs
   b. Sieve
   c. Churner
   d. Casket
   e. Palanquin

28. Observe the following picture and choose the theme you learns:
   a. A friend in need is a friend indeed
   b. Greed is a curse
   c. Tit for tat
   d. Use your wits in times of difficulty
   e. No pains, no gains
29. See the figure given below and fill in the blank:

Ram run ................... the staircase.

a. Above  
b. Behind  
c. Over  
d. On  
e. up

30. See the figure given below and fill in the blanks

He sits .................. the sofa.

a. Above  
b. Over  
c. Behind  
d. Up  
e. On

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2. TEXTUAL ASPECT (FINAL FORM)

1. Why did Horace rob a safe every year
   a. To support his family
   b. To live in style
   c. To live comfortably
   d. To buy new cars
   e. To buy rare and valuable books

2. Why was it a temptation to keep Tricki as a permanent guest at the surgery?
   a. Because they had all started loving Tricki
   b. Because Tricki had become very friendly with the other dogs
   c. Because they could enjoy lots of things sent by Mrs Pumphery for Tricki
   d. Because Mrs. Pumphery used to send gifts for all of them
   e. None of above

3. Evelyn’s headmistress urged her parents to take her to:
   a. A chemist
   b. A specialist
   c. A dentist
   d. A scientist
   e. A lady doctor

4. What is the central idea of the poem ‘The Road Not Taken’?
   a. The importance of living in the company of nature
   b. The importance of leaves
   c. The importance of travelling
   d. The importance of good roads
   e. The importance of making a choice

5. Where did the young seagull pass the night?
   a. On a tree
   b. On a mountain
   c. In his ledge
   d. On a rock
   e. In his room

6. Who became Anne’s friend and what was the friend’s name?
   a. Books and Kitty
   b. Magazine and Jackie
   c. Dairy and Kitty
   d. Newspaper and Keesing
   e. Copy and Jackie In his room
7. What dress Wanda used to wear everyday in the school?
   a. A pink dress
   b. A faded blue dress
   c. A black dress
   d. A red expensive dress
   e. A white dress

8. Where did Mr. Herriot take Tricki?
   a. To his clinic
   b. To a public hospital for vets
   c. To Mrs. Pumphery’s house
   d. No where
   e. To his friend’s clinic

9. What did the pilot of the old Dakota see on the way?
   a. Huge clouds in the sky
   b. Birds flying
   c. Flowing rivers
   d. High mountains
   e. Huge ocean

10. How did the young lady in red threaten Horace Danby?
    a. She said she would kill him with her pistol
    b. She said she would call the police
    c. She said she would call her neighbours
    d. She said she would ring up her husband
    e. None of the above

11. How did Bismillah Khan give the shehnai a spiritual status?
    a. He played it both at sunrise and at sunset
    b. He played it both at national and international level
    c. He played it in the courts of kings
    d. He played it on the high peaks of the Himalayas
    e. He played it in temples and on auspicious occasions

12. Where did the author land safely?
    a. In the fields
    b. In a forest
    c. On an airport
    d. He could not land
    e. In a stadium

13. Who was Wanda Petronski?
    a. A Polish girl
    b. Jewish girl
    c. A Christain girl
    d. A muslim girl
    e. A hindu girl
14. What did the boy do after he lost his ball?
   a. He went to home
   b. He began to weep
   c. He bought another ball
   d. He stood rigid staring down
   e. None of the above

15. How was the boy feeling while going to the fair?
   a. Sad
   b. Unhappy
   c. Dissatisfied
   d. Gay
   e. Disturbed

16. Which subject did Anne find difficult?
   a. English
   b. Science
   c. Math
   d. Social Science
   e. Home Science

17. How did the postmaster look?
   a. Hard and cruel
   b. Tall and strong
   c. Thin and serious
   d. Fat and amiable
   e. None of the above

18. Name the poet of the poem ‘Wind’
   a. R. K. Narayana
   b. Robert Frost
   c. W. B. Yeats
   d. Phoebe Cary
   e. Subramaniam Bharati

19. Who is the writer of the poem ‘No Men Are Foreign’?
   a. James Kirkup
   b. Robert Frost
   c. W. B. Yeats
   d. Phoebe Cary
   e. Coats Kinney

20. Who is the poet of the poem “The Ball Peom”?
   a. Robert Frost
   b. William Wordsworth
   c. W. H. Auden
   d. John Berryman
   e. Carolyn Wells
21. What made Saint Peter angry?
   a. The woman’s faithfulness
   b. The woman’s greed
   c. Woman’s pride
   d. The woman’s kindness
   e. The woman’s selfishness

22. Abdul Kalam’s father didn’t have
   a. Much formal education
   b. Much innate wisdom
   c. Much generosity of spirit
   d. Much formal wealth
   e. Much sense of discipline

23. Name the writer of the poem ‘Rain on the Roof’
   a. Y. B. Yeats
   b. Robert Frost
   c. Coates Kinney
   d. Subramaniam Bharti
   e. Katherine Mansfield

24. How did the thief realize that Anil knew about the theft?
   a. The fifty-rupee note that Anil gave to the thief was still wet
   b. The fifty-rupee note that Anil had stolen was still wet
   c. Anil asked the thief how the five-rupee note had got wet
   d. Anil looked very angry when he saw the wet wad of notes
   e. None of above

25. How, according to Margie’s mother, did little girls learn better?
   a. By obeying their parents
   b. By getting up early
   c. By obeying their teachers
   d. By being regular and punctual
   e. By taking the helps of computers and mechanical teachers

26. Who is the real culprit in the story ‘A Question of Trust’?
   a. Victor Canning
   b. Horace Danby
   c. Young pretty lady
   d. Shotover Grange
   e. Hay Fever

27. According to Anne, who has more patience than people?
   a. Paper
   b. Children
   c. Teachers
   d. Parents
   e. Friends
28. Which is the noble beast according to the poet in the poem ‘How to Tell Wild Animals’?
   a. A tiger
   b. An Asian Lion
   c. A bear
   d. A leopard
   e. All the above

29. Why did Einstein write a letter to Roosevelt?
   a. To warn him how powerful the Nazis had become in Germany
   b. To warn how destructive the atomic bomb could be
   c. To tell him how the atomic bomb could be made
   d. To tell him to throw the atomic bomb on Hiroshima and Nagasaki
   e. All the above

30. How does the poet convey the violence of the wind?
   a. It leaves behind cracked branches of the trees
   b. It growls as it blows on the roof
   c. It can drive down the roof states
   d. It washes sand from the roof
   e. All the above

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3. COMPREHENSION ASPECT (FINAL FORM)

PASSAGE -1

There are six unseen passage of 100-150 words each with a variety of objective type multiple-choice question. Read each passage and write the correct option from the alternatives given below-

One day and old lady was travelling alone in the first class compartment of a train. She was very well-dressed. She was sitting quietly in a corner and was reading a book. A travelling ticket examiner came into the compartment and asked for the ticket. The old lady looked in her bag for the ticket but couldn't find it. She then looked for it among her other things. She could not find the ticket there also. So she got very worried. She said to the ticket examiner, “Will you please pull the chain and stop the train? I’ve lost my ticket,”. The ticket examiner said, “Please don’t worry. I know you are an honest woman.” “You don’t understand,” said the old lady, “if I don’t find my ticket, how shall I know where I have to get off?”.

Tick the correct answer from the alternatives given below each question.

1. Why did the old lady want to stop the train?
   a. To go back home
   b. To have a new ticket
   c. To find her lost ticket
   d. To bring up her son

2. Who was travelling with old lady?
   a. Her husband
   b. Her son
   c. Her daughter
   d. None

3. Why did the ticket examiner not charge any money from the woman?
   a. He thought she was a poor woman
   b. He thought she was an honest woman
   c. He thought she had lost her purse
   d. He thought she had her ticket in her bag

4. Why did the old woman want to find her lost ticket?
   a. She had no money for another ticket
   b. She could know from the ticket where she was to get off,
   c. She wanted to show it to the TTE
   d. She wanted to show that she was an honest woman

5. Don’t get …………… the train while it is moving.
   a. Of
   b. Off
   c. From
   d. Below
PASSAGE - 2

My elder brother was five years older than me but he was only three classes ahead. He had begun his studies at the same age as I had, but he did not like the idea of moving too hastily in an important matter like education. He wanted to lay a firm foundation, so he took two years to do one year's work, sometimes even three. "If the foundation was not strong, how could the building be stout?" he used to say. I was the younger, he was the elder. I was nine, he was fourteen, So he had full right by virtue of his seniority to supervise and instruct me. I was expected to accepted every order of his as a law. By nature he was very studious. He was always sitting with a book open. And perhaps to rest his brain he would sometimes draw pictures of birds, dogs and cats in the margin of his book.

Tick the correct answer from the alternatives given below each question.

6. What did the elder brother do to rest his brain?
   a. He would lie down and sleep for some time
   b. He would go out and sit in the park
   c. He would play with the younger brother for some time
   d. He would draw pictures of birds, dogs and cats in the margin of his book.

7. What idea related to education did the writer's brother not like?
   a. To take two years for each class
   b. To take three years for each class
   c. To move too hastily from one class to the next
   d. To stay in the same class for ever

8. What shows that the elder brother was studious?
   a. He had always a book in the bag
   b. He had always a book open before him
   c. He spent a lot of money on books
   d. He went to the library daily

9. Why would the brother spend two or three years in each class?
   a. To make the foundation strong
   b. To increase the number of his friends
   c. To become the monitor of his class
   d. To play games and enjoy life

10. Give the opposite of 'senior'
    a. Superior
    b. Inferior
    c. Junior
    d. Interior
PASSAGE – 3

It was two weeks before Dipawali and Mrs. Sharma was very busy. She bought a lot of Dipawali cards to send to her friends and to her husband’s friends. She put them on the table in the living-room. When her husband came home from work, she said to him, “Here are the Dipawali cards for our friends. Here are some stamps, a pen and our books of addresses. Will you please write the cards while I am cooking the dinner?”

Mr. Sharma did not say anything. He walked out of the living-room and went to his study. Mrs. Sharma felt very angry with him, but she did not say anything. A minute later, Mr. Sharma came back with a box full of Dipawali cards. All of them had addresses and stamps of them. “These are from last year,” he said, “I forgot to post them.”

Tick the correct answer from the alternatives given below each question.

11. What did she say to her husband?
   a. To post the Dipawali cards
   b. To write the Dipawali cards
   c. To buy the Dipawali cards
   d. To put the Dipawali cards on the table

12. What did Mr. Sharma bring form his study?
   a. a Dipawali card
   b. a box full of Dipawali card
   c. a box full of addresses and stamps
   d. nothing

13. Where did she put the cards?
   a. In the living-room on the table
   b. On the table in the living – room
   c. On the living-room in the table
   d. In the table on the living-room

PASSAGE – 4

There has been a tremendous rise in the population of Delhi during the last few decades. It has resulted in the building of a large number of housing complexes in and around Delhi. The city has also seen the rapid growth of industries. The discharge of domestic and industrial waste into the water of the river Yamuna is responsible for causing deterioration in the quality of its water every year. The water contains bacteria which can cause diseases such as cholera, dysentery, hepatitis, jaundice, typhoid and diarrhoea. The vegetables grown in the bed of the Yamuna, too, contain toxic and harmful elements. The river has thus become almost useless in meeting the daily requirements of people for purposes of drinking, bathing, fishing and irrigation.

Tick the correct answer from the alternatives given below each question,
14. What has happened to the population of Delhi in the last few decades?
   a. It has become very rich
   b. It has increased tremendously
   c. It has become highly educated
   d. It has spread many diseases

15. What has polluted the Yamuna?
   a. The discharge of domestic waste into its water
   b. The discharge of industrial waste into its water
   c. Both A and B
   d. Neither A and B

16. For what daily requirements do people need the water of the Yamuna?
   a. Drinking
   b. Bathing
   c. Fishing and irrigation
   d. All the above

17. Why is the water of the Yamuna not safe for human consumption?
   a. It has in it many dangerous fish
   b. It has in it the ashes of dead people
   c. It has in it bones and a lot of sand and mud
   d. It has bacteria that can cause many diseases

18. Why have a large number of housing complexes come up in Delhi?
   a. It has been due to the increasing demands of the people
   b. It has been due to the lack of space in Delhi
   c. It has been due to the rapid growth of industries
   d. It has been due to tremendous increase in its population

19. What do you mean by a ‘decade’?
   a. A period of one year
   b. A period of five years
   c. A period of ten years
   d. A period of hundred years

The water of the river Yamuna in Delhi has become useless. The water of this river is most polluted and has received ‘E’ grade in terms of quality. This is the lowest grade which indicates the severity of pollution in the river water. Some fifty years ago, the water of the Yamuna was clear and clean. Many water plants such as weeds, algae and shrubs grew in its water or along the bank of the river. These plants were the main source of food for aquatic creatures. A number of water birds could be seen along the river. With the onset of winter thousands of migratory birds would come here to feed in the Yamuna water. Sadly, these water species and bird have vanished now. What one find now are red worms which live in the most unhygienic and polluted water.
Tick the correct answer from the alternatives given below each question.

20. What has happened to the water of the Yamuna?
   a. It has become useless
   b. It has become polluted
   c. It has received ‘E’ grade in terms of quality
   d. All the above

21. Where do red worms live?
   a. In cold water
   b. In hot water
   c. In muddy water
   d. In most unhygienic and polluted water

22. What has been the result of severe pollution of the Yamuna?
   a. Migratory birds no longer come here
   b. No water birds are seen along its course
   c. Red worms are seen everywhere in it
   d. All the above

23. At what time of the year did migratory birds come to the Yamuna?
   a. At the end of winter
   b. At the beginning of winter
   c. In the middle of winter
   d. At the end of summer

24. What is the main source of food eaten by aquatic creatures?
   a. Red worms
   b. Fish and other water animals
   c. Migratory birds and water birds
   d. Weeds, algae and shrubs growing in water

**PASSAGE – 6**

When the Nazis came to power in Germany in 1933, Einstein emigrated to the United States. Five years later, the discovery of nuclear fission in Berlin had American physicists in an uproar. Many of them had fled from fascism, just as Einstein had, and now they were afraid the Nazis could build and use an atomic bomb.

Tick the correct answer from the alternatives given below each question.

25. What big change took place in Germany in 1933?
   a. The Nazis lost their power
   b. The Nazis came to power
   c. The Nazis left the country
   d. The Nazis brought an end to fascism
   e. None
26. What did Einstein do when the Nazis came to power?
   a. He came to Berlin
   b. He emigrated to Germany,
   c. He emigrated to the United States
   d. He left the United States
   e. None

27. When was the discovery of nuclear fission made in Berlin?
   a. In 1933
   b. In 1934
   c. In 1936
   d. In 1938
   e. None

28. What put the American physicist in an uproar?
   a. The coming of Nazis to power
   b. The discovery of nuclear fission in Berlin
   c. The use of atomic bomb in Berlin
   d. The rule of fascism in Germany
   e. None

29. Why had Einstein and other physicists fled from Germany?
   a. It was due to the discovery of nuclear fission
   b. It was the fear of the atomic bomb
   c. It was their fear of fascism
   d. It was their fear of the war
   e. None

30. What was an American physicist afraid of?
   a. It was a fear of fascism
   b. Coming of Nazis to power
   c. Nazis could build and use an atom
   d. The discovery of nuclear fission in Berlin
   e. None

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4. GRAMMAR & USAGE ASPECT (FINAL FORM)

Note – All the question are compulsory. Each question carries equal mark.

Write the correct option from the alternatives given below each question.

1. The general said to the soldiers, “March quickly.”
   a. The general ordered the soldiers to march quickly.
   b. The general ordered to the soldiers to march quickly.
   c. The general requested the soldiers to march quickly.
   d. The general said to the soldiers to march quickly.
   e. The general prayed to the soldiers to march quickly.

2. I said to Mohan, “It is a beautiful sight.”
   a. I told to Mohan it was a beautiful sight.
   b. I said to Mohan it was a beautiful sight.
   c. I explained to Mohan that it was a beautiful sight.
   d. I told Mohan that it is a beautiful sight.
   e. I told Mohan that it was a beautiful sight.

3. The coach made us …………………..
   a. Running
   b. To run
   c. Run
   d. Runs
   e. To running

4. I made him……………. his own clothes.
   a. Wash
   b. To wash
   c. Washing
   d. Washed
   e. None

5. The driver ……………….. to have been more careful.
   a. May
   b. Ought
   c. Must
   d. Should
   e. Could
6. I saw him ................. the door.
   a. Opens
   b. Open
   c. Opened
   d. To open
   e. Opening

7. I would rather ............ than beg.
   a. Die
   b. To die
   c. Dies
   d. Died
   e. Dying

8. A match ............... by me.
   a. Is play
   b. Are played
   c. Have played
   d. Is being played
   e. None

9. My father said to me, “I am not feeling well that day.”
   a. My father told me that he is not feeling well that day.
   b. My father told me that he was not feeling well today.
   c. My father told me that he was not feeling well that day.
   d. My father told me he had not been feeling well that day.

10. As I .................to my school, I met an old friend of mine.
    a. Was going
    b. Go
    c. Had gone
    d. Have one
    e. Went
11. Deepak would have killed the snake if he ………………it.
   a. Sees
   b. Saw
   c. Had seen
   d. Seeing
   e. Have seen

12. What …………….. the moon go round the Earth?
   a. Made
   b. Making
   c. Had made
   d. Has made
   e. Makes

13. Look! Smoke ……………. out of that window.
   a. Had come
   b. Has come
   c. Was coming
   d. Is coming
   e. Came

14. You ……………..my money just now?
   a. Will (you) please return
   b. Did (you) please return
   c. Had (you) please returned
   d. Do (you) please return
   e. Have (you) please return

15. I ……………….. for three hours when the lights went off.
    a. Had been studying
    b. Have been studying
    c. Have studied
    d. Had studied
    e. Studied
16. He ………………….. on his clothes when the bell rang.
   a. Has not put
   b. Had not put
   c. Did not put
   d. Do not put
   e. Does not put

17. He works hard so that he ………………. pass.
   a. Can
   b. Could
   c. May
   d. Might
   e. Would

18. He bought a ………………. scooter.
   a. Damage
   b. To damage
   c. Damaging
   d. Damaged
   e. None

19. My friend said, “Alas! My cousin has lost his mother.”
   a. My friend exclaimed with sorrow that his cousin had lost his mother.
   b. My friend exclaimed with sorrow his cousin has lost his mother.
   c. My friend exclaimed that his cousin has lost his mother.
   d. My friend said – that his cousin has lost his mother.
   e. My friend told that his cousin has lost his mother.

20. Choose the one which best expresses the meaning of : from hand to mouth.
   a. In miserly conditions
   b. In an independent way
   c. Without any provision for the future
   d. Without any regard for ideals
   e. With sound future
21. Ill news …… fast.
   a. Travel
   b. Travels
   c. Is travelling
   d. Was travelling
   e. None

22. An epidemic of measles ………… broken out in the district.
   a. Are
   b. Were
   c. Has
   d. Have
   e. Shall

23. Had he worked hard, he …………… have passed.
   a. Will
   b. Would
   c. Should
   d. Must
   e. Shall

24. I called ………………… his house this morning.
   a. For
   b. On
   c. Upon
   d. At
   e. None

25. He said to Reena, “May you live long!”
   a. He prayed Reena must live long.
   b. He prayed that Reena might live long.
   c. He prayed Reena may live long.
   d. He said that Reena might live long.
   e. None
26. He…………………. not come to my house.
   a. Shall dare
   b. Dare
   c. Will dare
   d. Dares
   e. Is dare

27. She has not ……………… blue sarees.
   a. Much
   b. The
   c. An
   d. Many
   e. None

28. ……………… the candle, please.
   a. Blow off
   b. Blow out
   c. Blow in
   d. Blow up
   e. Blow down

29. I would like my watch ……………..
   a. Repair
   b. Repaired
   c. To repair
   d. Repairing
   e. Repairs

30. Choose the correct answer to combine the given pairs of sentences:
    She said something. I did not hear it.
   a. I did not hear why she said
   b. I did not hear what she said
   c. I did not hear how she said
   d. I did not hear when she said
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5. VOCABULARY & SPELLING ASPECT (FINAL FORM)

There are five options for each word. You have to choose the correct meaning of the word from the given options:

1. Compassion should mean-
   a. Love
   b. Strong feeling of sympathy
   c. Affection
   d. Sympathy
   e. None of these

2. The word ‘optimism’ has the meaning –
   a. Good feelings
   b. A feeling that good things will happen
   c. Pessimism
   d. Belief in fortune
   e. None

3. Meaning of the word simultaneous is:
   a. Happening at the same moment.
   b. Never happened
   c. Happening at the same time
   d. About to happen
   e. None of these

4. Find out the correct meaning of the word ‘astonishment’
   a. Very surprising
   b. Excitement
   c. Extasy
   d. Bewilderment
   e. All the above

5. Paradise means-
   a. Heaven
   b. Hell
   c. Good place
   d. Bad place
   e. None of these
6. The meaning of the word 'vast' is –
   a. Large
   b. Big
   c. Limitless
   d. Huge
   e. None of the above

7. ‘Giant’ should mean –
   a. A large cruel person
   b. Monster
   c. Goblin
   d. Ghost
   e. All of these

8. ‘Ruin’ means –
   a. Damage
   b. Destruction
   c. Devastation
   d. Construction
   e. All of these

9. Find out the correct word –
   a. Concession
   b. Cancesion
   c. Cancession
   d. Cancussion
   e. Concesion

10. Find out the correct meaning of ‘Decorate’ –
    a. Adorn
    b. Catastrophe
    c. Deconstruction
    d. Attractive
    e. All of these
11. Delight has the meaning –
   a. Pleasure
   b. Comfort
   c. Happiness
   d. Glee
   e. All of the above

12. Find out the correct meaning of Terrifying –
   a. Horrifying
   b. Dangerous
   c. Uncivilized
   d. Dreadful
   e. None of the above

13. Indication means –
   a. Mark
   b. Referring
   c. Making a sign
   d. Showing
   e. None of these

14. The word ‘innocence’ should mean –
   a. Guilty
   b. Harmless
   c. Cruel
   d. Faultless
   e. None of these

15. The meaning of ‘Disaster’ is –
   a. Ruin
   b. Catastrophe
   c. Damage
   d. Construct
   e. None of the above
16. The exact meaning of ‘exhausted’ is –
   a. Weary
   b. Fatigued
   c. Restless
   d. Completely tired
   e. All of the above

17. Find out the correct word –
   a. Comission
   b. Commision
   c. Comision
   d. Commission
   e. Commition

18. Find out the correct word –
   a. Commitee
   b. Committe
   c. Committee
   d. Comitee
   e. Committee

19. Find out the meaning of the word ‘Temptation’ –
   a. Seduction
   b. Attraction
   c. Greed
   d. None of the above
   e. All of the above

20. Find out the correct spelling of following –
   a. Neumonia
   b. Pneumonia
   c. Kneumonia
   d. Pneumaunia
   e. Numonia
21. ‘Absorb’ should mean-
   a. Heat
   b. Observe
   c. Imbibe
   d. Interested
   e. None of above

22. ‘Reinforced’ has the meaning –
   a. To make something weak
   b. To make an idea strong
   c. Strengthened
   d. Decrease
   e. None of these

23. Find out the correct word –
   a. Forfit
   b. Farfeit
   c. Forfeet
   d. Forfeit
   e. Farfit

24. Find out the correct word –
   a. Harmonious
   b. Harrmonious
   c. Harmoious
   d. Harmonios
   e. Harmaious

25. Which one of the following is correct –
   a. Cornel
   b. Cornal
   c. Colonel
   d. Carnal
   e. Carnol
26. Find out the correct word –
   a. Vacum
   b. Vaccurm
   c. Vacuum
   d. Vaccum
   e. Vacuum

27. Find out the correct word –
   a. Ocurrence
   b. Ocurrence
   c. Ocurrence
   d. Occurrence
   e. Occurrence

28. Find out the correct word –
   a. Reverened
   b. Revarened
   c. Reveranad
   d. Revecnad
   e. Reverend

29. Find out the correct word –
   a. Harasment
   b. Harassment
   c. Harrssment
   d. Harusment
   e. Harresment

30. Find out the correct word –
   a. Embarrassing
   b. Embarassing
   c. Embarrassing
   d. Embarassing
   e. Embrrsing
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6. COMPOSITIONAL ASPECT (FINAL FORM)

1. What form of salutation we use for relatives:
   a. Dear
   b. Respected
   c. Sir/Madam
   d. All above
   e. None above

2. You have found a watch in the school library. Need to write:
   a. A report
   b. A message
   c. An advertisement
   d. A notice
   e. Any of the above

3. Which is the most prominent tense to be used in Report writing:
   a. Past Tense
   b. Present Tense
   c. Future Tense
   d. Both past and present
   e. All

4. What is a type of letter writing?
   a. Formal
   b. Informal
   c. Letters of application
   d. All
   e. Formal and Informal

5. What is report writing?
   a. Narration of the incident which has taken place already
   b. Narration of the incident which is to take place
   c. Both (a) & (b)
   d. Narration of an imaginary incident
   e. None of these
6. The sender’s address in a letter contain:
   a. Name of sender’s organization
   b. Name of sender’s city
   c. No punctuation marks
   d. All above
   e. Name of receiver

7. What does the body of letter contains:
   a. Sender’s address
   b. Receiver’s address
   c. Context & expression
   d. Salutation
   e. All above

8. A report is:
   a. A detailed information
   b. A first hand information
   c. An informal information
   d. None of the above
   e. All above

9. Paragraph writing contain:
   a. Present Tense
   b. Past Tense
   c. Future Tense
   d. All
   e. None of above

10. While drafting advertisement, it should avoided:
    a. Long sentences and difficult or heavy words
    b. Misleading the readers
    c. None of these
    d. Both (a) & (b)
    e. All above
11. Paragraph writing needs:
   a. A sequence of event
   b. Precise matter
   c. Clarity
   d. All
   e. Only (a) & (b)

12. Report writing bears:
   a. Name of the writer
   b. Name of the publishing agency
   c. Date
   d. Name of place
   e. All

13. An interview is:
   a. An informal meeting
   b. Only one to one meeting
   c. A formal meeting
   d. Only many to one meeting
   e. All above

14. Conversation is an informal talk:
   a. One to one
   b. One to many
   c. Many to one
   d. All the above
   e. Both (a) & (b)

15. Which of the following is right:
   a. January 10, 2006
   b. January 10, 2006
   c. 2006 January 10
   d. 10, 2006 January
   e. All above
16. Message is always written in :
   a. Direct speech
   b. Indirect speech
   c. Both (a) & (b)
   d. None of the above
   e. Passive form

17. While drafting an advertisement, what type of language should be used to attract leaders:
   a. Use of catchy words
   b. Use of simple words
   c. Use of effective language
   d. Brief write-ups
   e. All above

18. What are the chief qualities of a report?
   a. Brief
   b. To the point
   c. Systematic
   d. Written in past tense
   e. All above

19. While designing an advertisement we should use:
   a. Different sizes of words
   b. Important matter in bold or bigger letters
   c. A suitable name of the product
   d. Brief size
   e. All above

20. The language of the notice should be :
   a. Completely personal
   b. Completely impersonal
   c. Partial personal
   d. None of the above
   e. Both (b) & (c)
21. The context of a report contains following points:
   a. When
   b. Where
   c. Why
   d. All
   e. None

22. Choose the correct sequence for ‘Notice writing’:
   a. Signature/ Name/ Designation
   b. Name/ Signature/ Designation
   c. Signature/ designation/ Name
   d. Designation/ Signature/ Name
   e. All the correct

23. Which of the following is more important in receiver’s address in formal letter writing:
   a. Designation
   b. Official address
   c. Name of the city
   d. All above
   e. None of these

24. What are the tips for effective writing skills:
   a. Organizing ideas
   b. Developing cohesion and style
   c. Revise and Ensure
   d. Appropriate use of words
   e. All above

25. What are the features of a good story:
   a. The beginning
   b. Background of action
   c. Characters
   d. Plot of the story
   e. All above
26. A good report contains:
   a. A catchy heading at the top
   b. Name of the narrator
   c. Place and date
   d. All the above
   e. None of the above

27. Tick the international style of writing date:
   a. 19/07/92
   b. 07/19/92
   c. July 19, 92
   d. 19 July, 92
   e. 92/07/19

28. You had a telephonic conversation with Mr. Rakesh a friend of your father. He left some important information with you for your father. You have to go to market. So you have to write:
   a. A message
   b. A report
   c. An advertisement
   d. A notice
   e. None of the above

29. If I were the Prime Minister of India is:
   a. A descriptive essay
   b. A narrative essay
   c. A reflective essay
   d. An imaginative essay
   e. An argumentative essay

30. While writing a title:
   a. All words start with small letters
   b. All words start with capital letters
   c. Other than conjunctions, all words start with small letters
   d. As per writer’s choice
   e. All above
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### FIRST FACTORIZATION

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<td>0.36</td>
<td>0.2</td>
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<td>0.56</td>
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<table>
<thead>
<tr>
<th></th>
<th>S₁</th>
<th>D</th>
<th>E</th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>1.07</td>
<td>2.12</td>
<td>1.87</td>
<td>1.7</td>
<td>1.9</td>
<td>2.39</td>
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<tr>
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<td>0.53</td>
<td>0.57</td>
<td>0.56</td>
<td>0.55</td>
</tr>
<tr>
<td>1.39</td>
<td>2.66</td>
<td>2.4</td>
<td>2.27</td>
<td>2.46</td>
<td>2.94</td>
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</tr>
</tbody>
</table>

\[
m \times E = F_1 \begin{bmatrix} 0.370 & 0.708 & 0.639 & 0.604 & 0.655 & 0.783 \end{bmatrix}
\]

\[
\begin{bmatrix} 14.12 & \mathbf{T} \\ 3.757 \sqrt{T} & \mathbf{m} \end{bmatrix}
\]
First factor residuals and the extracted second centroid factor ($F_2$)

<table>
<thead>
<tr>
<th>Tests</th>
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<th>3</th>
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<th>5</th>
<th>6</th>
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<td>0.370</td>
<td>-0.072</td>
<td>-0.076</td>
<td>-0.074</td>
<td>0.008</td>
<td>0.030</td>
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<tr>
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<td>0.078</td>
<td>0.052</td>
<td>0.066</td>
<td>-0.094</td>
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<tr>
<td>0.639</td>
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<td>0.088</td>
<td>-0.086</td>
<td>-0.058</td>
<td>0.040</td>
<td></td>
</tr>
<tr>
<td>0.604</td>
<td>-0.074</td>
<td>0.022</td>
<td>-0.086</td>
<td>-0.196</td>
<td>0.077</td>
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<tr>
<td>0.655</td>
<td>0.008</td>
<td>0.036</td>
<td>-0.058</td>
<td>-0.196</td>
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<tr>
<td>0.783</td>
<td>0.030</td>
<td>-0.114</td>
<td>0.020</td>
<td>0.097</td>
<td>0.048</td>
<td></td>
</tr>
</tbody>
</table>

| $S_2$  | -0.184| -0.040| -0.123| -0.206| -0.132| 0.061 |

<table>
<thead>
<tr>
<th>A</th>
<th>$S_2/2$</th>
<th>0.092</th>
<th>0.020</th>
<th>0.061</th>
<th>0.103</th>
<th>0.066</th>
<th>-0.031</th>
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</thead>
<tbody>
<tr>
<td>+4</td>
<td>0.018</td>
<td>0.042</td>
<td>-0.025</td>
<td>0.103</td>
<td>-0.130</td>
<td>0.047</td>
<td></td>
</tr>
<tr>
<td>+6</td>
<td>0.049</td>
<td>-0.072</td>
<td>-0.004</td>
<td>0.200</td>
<td>-0.082</td>
<td>0.047</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>+1</td>
<td>0.049</td>
<td>-0.144</td>
<td>-0.081</td>
<td>0.127</td>
<td>-0.074</td>
<td>0.077</td>
</tr>
<tr>
<td>-2B</td>
<td>C</td>
<td>-0.097</td>
<td>0.288</td>
<td>0.162</td>
<td>-0.253</td>
<td>0.148</td>
<td>-0.154</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>-0.076</td>
<td>0.114</td>
<td>0.086</td>
<td>-0.196</td>
<td>0.196</td>
<td>-0.094</td>
</tr>
<tr>
<td></td>
<td>C + D</td>
<td>E</td>
<td>-0.174</td>
<td>0.402</td>
<td>0.248</td>
<td>-0.449</td>
<td>0.344</td>
</tr>
<tr>
<td></td>
<td>m X E</td>
<td>$F_2$</td>
<td>-0.127</td>
<td>0.294</td>
<td>0.181</td>
<td>-0.329</td>
<td>0.252</td>
</tr>
</tbody>
</table>

| m X E  | $F_2$  | 1.365 | 0.733 |
Second factor residuals and the extracted third centroid factor ($F_3$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.127</td>
<td>-0.034</td>
<td>-0.053</td>
<td>-0.115</td>
<td>0.040</td>
<td>0.007</td>
<td></td>
</tr>
<tr>
<td>0.294</td>
<td></td>
<td></td>
<td></td>
<td>0.024</td>
<td>0.149</td>
<td>0.252</td>
</tr>
<tr>
<td>0.181</td>
<td>0.034</td>
<td>0.034</td>
<td>-0.026</td>
<td>-0.104</td>
<td>0.073</td>
<td></td>
</tr>
<tr>
<td>-0.329</td>
<td>-0.115</td>
<td>0.119</td>
<td>-0.026</td>
<td>0.113</td>
<td>0.017</td>
<td></td>
</tr>
<tr>
<td>0.252</td>
<td>0.007</td>
<td>-0.061</td>
<td>0.053</td>
<td>0.037</td>
<td>0.093</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>$S_3$</th>
<th>-0.156</th>
<th>0.021</th>
<th>-0.106</th>
<th>-0.068</th>
<th>0.091</th>
<th>0.111</th>
</tr>
</thead>
<tbody>
<tr>
<td>$S_{3/2}$</td>
<td>0.078</td>
<td>-0.010</td>
<td>0.053</td>
<td>0.034</td>
<td>0.046</td>
<td>0.055</td>
</tr>
<tr>
<td>+1</td>
<td>0.078</td>
<td>-0.045</td>
<td>0.000</td>
<td>-0.081</td>
<td>0.086</td>
<td>-0.048</td>
</tr>
<tr>
<td>+5</td>
<td>0.118</td>
<td>-0.083</td>
<td>-0.104</td>
<td>-0.194</td>
<td>0.086</td>
<td>0.005</td>
</tr>
<tr>
<td>$B$</td>
<td>+6</td>
<td>0.125</td>
<td>-0.143</td>
<td>-0.051</td>
<td>-0.157</td>
<td>0.179</td>
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<tr>
<td>-2B</td>
<td>C</td>
<td>-0.250</td>
<td>0.286</td>
<td>0.102</td>
<td>0.313</td>
<td>-0.358</td>
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<tr>
<td>D</td>
<td></td>
<td>-0.115</td>
<td>0.119</td>
<td>0.104</td>
<td>0.149</td>
<td>-0.113</td>
</tr>
</tbody>
</table>

$C+D = E$
-0.366 0.405 0.206 0.462 0.471 -0.084

$m \times E = F_3$
0.259 -0.287 -0.146 -0.327 0.333 0.059

$S_{3/2}$
0.086

$m = 0.708$
Third factor residuals and the extracted fourth centroid factor ($F_4$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.259</td>
<td>0.040</td>
<td>-0.015</td>
<td>-0.031</td>
<td>-0.046</td>
<td>-0.008</td>
<td></td>
</tr>
<tr>
<td>-0.287</td>
<td>0.040</td>
<td>-0.018</td>
<td>0.055</td>
<td>0.088</td>
<td>-0.024</td>
<td></td>
</tr>
<tr>
<td>-0.146</td>
<td>-0.015</td>
<td>-0.008</td>
<td>-0.074</td>
<td>-0.055</td>
<td>0.082</td>
<td></td>
</tr>
<tr>
<td>-0.327</td>
<td>-0.031</td>
<td>0.025</td>
<td>-0.074</td>
<td>-0.004</td>
<td>0.037</td>
<td></td>
</tr>
<tr>
<td>0.333</td>
<td>-0.046</td>
<td>0.058</td>
<td>-0.055</td>
<td>-0.004</td>
<td>0.034</td>
<td></td>
</tr>
<tr>
<td>0.059</td>
<td>-0.008</td>
<td>-0.044</td>
<td>0.062</td>
<td>0.057</td>
<td>0.074</td>
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</tr>
</tbody>
</table>

$S_4$  
A  
\[S_4/2\] 0.030 -0.036 0.050 -0.002 -0.028 -0.060
\[+3\] 0.015 -0.043 0.050 -0.076 -0.083 0.021
\[+6\] 0.007 -0.087 0.112 -0.019 -0.010 0.021
B  
\[+1\] 0.007 -0.047 0.097 -0.050 -0.056 0.013

-2B  
C -0.014 0.094 -0.193 0.099 0.112 -0.027
D -0.046 0.058 -0.074 0.074 0.088 -0.082
C+D= E -0.060 0.152 -0.268 0.173 0.200 -0.108

m X E = $F_4$ -0.061 0.155 -0.273 0.177 0.204 -0.111

\[
is a 0.962 \overline{T}  
\[m = 0.98 \sqrt{T}\]
\[m = 1.020\]
Fourth factor residuals and the extracted fifth centroid factor ($F_5$)

<table>
<thead>
<tr>
<th>Tests</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.061</td>
<td>0.049</td>
<td>-0.032</td>
<td>-0.020</td>
<td>-0.034</td>
<td>-0.015</td>
<td></td>
</tr>
<tr>
<td>0.155</td>
<td>0.049</td>
<td>0.025</td>
<td>0.028</td>
<td>0.056</td>
<td>-0.006</td>
<td></td>
</tr>
<tr>
<td>-0.273</td>
<td>-0.032</td>
<td>0.035</td>
<td>-0.026</td>
<td>0.000</td>
<td>0.052</td>
<td></td>
</tr>
<tr>
<td>0.177</td>
<td>-0.020</td>
<td>-0.002</td>
<td>-0.026</td>
<td>-0.040</td>
<td>0.056</td>
<td></td>
</tr>
<tr>
<td>0.204</td>
<td>-0.034</td>
<td>0.026</td>
<td>0.000</td>
<td>-0.040</td>
<td>0.056</td>
<td></td>
</tr>
<tr>
<td>-0.111</td>
<td>-0.015</td>
<td>-0.026</td>
<td>0.032</td>
<td>0.076</td>
<td>0.096</td>
<td></td>
</tr>
</tbody>
</table>

$S_5$:

|  |  |  |  |  |  |  |
|---|---|---|---|---|---|
| $S_5$ | -0.051 | 0.082 | -0.001 | 0.019 | 0.079 | 0.143 |

$A$:

<table>
<thead>
<tr>
<th></th>
<th>$S_5/2$</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>+1</td>
<td>0.026</td>
<td>-0.041</td>
<td>0.001</td>
<td>-0.009</td>
<td>-0.040</td>
<td>-0.072</td>
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<tr>
<td>$B$</td>
<td>+2</td>
<td>0.075</td>
<td><strong>0.009</strong></td>
<td>-0.007</td>
<td>-0.001</td>
<td>-0.017</td>
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</tbody>
</table>

-2$B$:

|  |  |  |  |  |  |
|---|---|---|---|---|
| C | -0.150 | -0.017 | 0.014 | 0.003 | 0.035 | 0.185 |
| D | -0.049 | -0.049 | 0.032 | 0.076 | 0.096 | 0.056 |

$C+D= E$:

|  |  |  |  |  |  |
|---|---|---|---|---|
|  | -0.199 | -0.067 | 0.045 | 0.079 | 0.131 | 0.242 |

$m \times E = F_5$:

|  |  |  |  |  |  |
|---|---|---|---|---|
|  | -0.228 | -0.076 | 0.052 | 0.091 | 0.150 | 0.277 |

0.763 $\sqrt{m}$

0.873 $\sqrt{T}$

1.145 $m$
### Fifth factor residuals and the extracted sixth centroid factor ($F_6$)

<table>
<thead>
<tr>
<th>Tests</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.228</td>
<td>0.032</td>
<td>-0.020</td>
<td>0.001</td>
<td>0.000</td>
<td>0.048</td>
<td></td>
</tr>
<tr>
<td>-0.076</td>
<td>0.032</td>
<td>0.029</td>
<td>0.035</td>
<td>0.068</td>
<td>0.015</td>
<td></td>
</tr>
<tr>
<td>0.052</td>
<td>-0.020</td>
<td>0.039</td>
<td>-0.031</td>
<td>-0.007</td>
<td>0.037</td>
<td></td>
</tr>
<tr>
<td>0.091</td>
<td>0.001</td>
<td>0.005</td>
<td>-0.031</td>
<td>-0.053</td>
<td>0.031</td>
<td></td>
</tr>
<tr>
<td>0.150</td>
<td>0.000</td>
<td>0.038</td>
<td>-0.007</td>
<td>-0.053</td>
<td>0.015</td>
<td></td>
</tr>
<tr>
<td>0.277</td>
<td>0.048</td>
<td>-0.005</td>
<td>0.017</td>
<td>0.051</td>
<td>0.055</td>
<td></td>
</tr>
</tbody>
</table>

$S_6$

| A      | $S_6/2$ | -0.031 | -0.054 | 0.006 | -0.001 | -0.031 | -0.073 |
| B      | +1     | **-0.031** | -0.022 | -0.014 | 0.000 | -0.031 | -0.025 |

-2B

| C      | 0.061 | 0.044 | 0.028 | 0.001 | 0.061 | 0.049 |
| D      | 0.048 | 0.049 | 0.031 | 0.053 | 0.068 | 0.048 |

C+D=

| E      | 0.110 | 0.093 | 0.059 | 0.054 | 0.129 | 0.098 |

$m \times E = F_6$

| 0.149 | 0.126 | 0.080 | 0.074 | 0.175 | 0.133 |

| 0.543 | $T$   |
| 0.736 | $\sqrt{T}$ |

| 1.359 | $m$   |
The communalities as they came out after factorization and the difference between the guessed and obtained values are shown in Tables 6.2, 6.3 and 6.4 along with factor loading. \( h^2 \) obtained by adding the squares of the loading in each test.

### Table 6.2
Factors

<table>
<thead>
<tr>
<th>Tests</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
<th>( h^2 ) obtained</th>
<th>( h^2 ) Guessed</th>
<th>Diff.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.137</td>
<td>0.016</td>
<td>0.067</td>
<td>0.004</td>
<td>0.052</td>
<td>0.276</td>
<td>0.32</td>
<td>-0.044</td>
</tr>
<tr>
<td>2</td>
<td>0.501</td>
<td>0.087</td>
<td>0.082</td>
<td>0.024</td>
<td>0.006</td>
<td>0.700</td>
<td>0.54</td>
<td>0.160</td>
</tr>
<tr>
<td>3</td>
<td>0.408</td>
<td>0.033</td>
<td>0.021</td>
<td>0.075</td>
<td>0.003</td>
<td>0.539</td>
<td>0.53</td>
<td>0.009</td>
</tr>
<tr>
<td>4</td>
<td>0.365</td>
<td>0.108</td>
<td>0.107</td>
<td>0.031</td>
<td>0.008</td>
<td>0.620</td>
<td>0.57</td>
<td>0.050</td>
</tr>
<tr>
<td>5</td>
<td>0.429</td>
<td>0.064</td>
<td>0.111</td>
<td>0.042</td>
<td>0.022</td>
<td>0.668</td>
<td>0.56</td>
<td>0.108</td>
</tr>
<tr>
<td>6</td>
<td>0.612</td>
<td>0.033</td>
<td>0.004</td>
<td>0.012</td>
<td>0.077</td>
<td>0.738</td>
<td>0.55</td>
<td>0.188</td>
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</table>
After First Reiteration

The communalities obtained after first factorization correlation matrix and the extracted first centroid factor ($F_1$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.19</td>
<td>0.16</td>
<td>0.15</td>
<td>0.25</td>
<td>0.32</td>
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</tr>
<tr>
<td>2</td>
<td>0.19</td>
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<td>0.53</td>
<td>0.48</td>
<td>0.53</td>
<td>0.46</td>
</tr>
<tr>
<td>3</td>
<td>0.16</td>
<td>0.54</td>
<td></td>
<td>0.3</td>
<td>0.36</td>
<td>0.54</td>
</tr>
<tr>
<td>4</td>
<td>0.15</td>
<td>0.45</td>
<td>0.3</td>
<td></td>
<td>0.2</td>
<td>0.55</td>
</tr>
<tr>
<td>5</td>
<td>0.25</td>
<td>0.5</td>
<td>0.36</td>
<td>0.2</td>
<td></td>
<td>0.52</td>
</tr>
<tr>
<td>6</td>
<td>0.32</td>
<td>0.44</td>
<td>0.52</td>
<td>0.57</td>
<td>0.56</td>
<td></td>
</tr>
</tbody>
</table>

| $S_1$ | 1.07| 2.12| 1.87| 1.7 | 1.9 | 2.39|
| $D$   | 0.276| 0.700| 0.539| 0.620| 0.668| 0.738|
| $S_1 + D = E$ | 1.346| 2.820| 2.409| 2.320| 2.568| 3.128|
| $m X E = F_1$ | 0.352| 0.738| 0.631| 0.607| 0.672| 0.819|

\[ \sqrt{T} \]

\[ 14.591 \]

\[ 3.819 \]

\[ 0.262 \]
First factor residuals and the extracted second centroid factor ($F_2$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.352</td>
<td>-0.070</td>
<td>-0.062</td>
<td>-0.064</td>
<td>0.013</td>
<td>0.031</td>
<td>0.031</td>
</tr>
<tr>
<td>0.738</td>
<td>0.064</td>
<td>0.031</td>
<td>0.034</td>
<td>-0.145</td>
<td>-0.070</td>
<td>-0.064</td>
</tr>
<tr>
<td>0.631</td>
<td>0.074</td>
<td>-0.083</td>
<td>-0.064</td>
<td>0.023</td>
<td>-0.062</td>
<td>0.074</td>
</tr>
<tr>
<td>0.607</td>
<td>0.001</td>
<td>-0.083</td>
<td>-0.208</td>
<td>0.052</td>
<td>-0.064</td>
<td>0.001</td>
</tr>
<tr>
<td>0.672</td>
<td>0.004</td>
<td>-0.064</td>
<td>-0.208</td>
<td>-0.031</td>
<td>0.013</td>
<td>0.004</td>
</tr>
<tr>
<td>0.819</td>
<td>-0.065</td>
<td>0.003</td>
<td>0.072</td>
<td>0.009</td>
<td>0.031</td>
<td>-0.165</td>
</tr>
</tbody>
</table>

$S_2$  

<table>
<thead>
<tr>
<th>A</th>
<th>$S_2/-2$</th>
<th>0.076</th>
<th>0.078</th>
<th>0.071</th>
<th>0.126</th>
<th>0.108</th>
<th>0.034</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+4</td>
<td>0.012</td>
<td>0.079</td>
<td>-0.012</td>
<td>0.126</td>
<td>-0.100</td>
<td>0.087</td>
</tr>
<tr>
<td></td>
<td>+6</td>
<td>0.043</td>
<td>-0.085</td>
<td>-0.009</td>
<td>0.198</td>
<td>-0.091</td>
<td>0.087</td>
</tr>
<tr>
<td>B</td>
<td>+1</td>
<td><strong>0.043</strong></td>
<td>-0.156</td>
<td>-0.071</td>
<td><strong>0.134</strong></td>
<td>-0.078</td>
<td><strong>0.118</strong></td>
</tr>
</tbody>
</table>

$-2B$  

<table>
<thead>
<tr>
<th>C</th>
<th>-0.087</th>
<th>0.311</th>
<th>0.142</th>
<th>-0.269</th>
<th>0.155</th>
<th>-0.236</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>-0.070</td>
<td>0.165</td>
<td>0.083</td>
<td>-0.208</td>
<td>0.208</td>
<td>-0.145</td>
</tr>
</tbody>
</table>

$C + D = E$  

| -0.157 | 0.476 | 0.226 | -0.477 | 0.364 | -0.381 |

$m \times E = F_2$  

| -0.109 | 0.330 | 0.156 | -0.331 | 0.252 | -0.264 |

$\sqrt{T}$  

| 2.080 | 1.442 | 0.693 |
Second factor residuals and the extracted third centroid factor ($F_3$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.109</td>
<td>-0.034</td>
<td>-0.045</td>
<td>-0.100</td>
<td>0.041</td>
<td>0.003</td>
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</tr>
<tr>
<td>0.330</td>
<td>-0.034</td>
<td>0.012</td>
<td>0.141</td>
<td>-0.050</td>
<td>-0.058</td>
<td></td>
</tr>
<tr>
<td>0.156</td>
<td>-0.045</td>
<td>0.022</td>
<td>-0.032</td>
<td>-0.104</td>
<td>0.065</td>
<td></td>
</tr>
<tr>
<td>-0.331</td>
<td>-0.100</td>
<td>0.111</td>
<td>-0.032</td>
<td>-0.125</td>
<td>-0.035</td>
<td></td>
</tr>
<tr>
<td>0.252</td>
<td>0.041</td>
<td>-0.080</td>
<td>-0.104</td>
<td>-0.125</td>
<td>0.036</td>
<td></td>
</tr>
<tr>
<td>-0.264</td>
<td>0.003</td>
<td>-0.078</td>
<td>0.045</td>
<td>-0.015</td>
<td>0.076</td>
<td></td>
</tr>
</tbody>
</table>

$S_3$  
-0.137  -0.059  -0.123  -0.131  -0.162  0.011

A  
$S_3/2$  0.068  0.029  0.062  0.065  0.081  -0.005
+5  0.109  -0.050  -0.042  -0.060  0.081  0.031
+1  0.109  -0.085  -0.087  -0.160  0.121  0.033

B  
+6  0.111  -0.162  -0.043  -0.175  0.197  0.033

-2B  
C  -0.223  0.325  0.085  0.349  -0.395  -0.066
D  -0.100  0.111  0.104  0.141  -0.125  -0.065

C+D =  
E  -0.323  0.435  0.189  0.490  -0.520  -0.131

$m \times E =$  
$F_3$  -0.224  0.302  0.131  0.339  -0.360  -0.091

$\sqrt{T}$  2.088  1.444  0.693

$m$
### Third factor residuals and the extracted fourth centroid factor ($F_4$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.224</td>
<td>1</td>
<td>0.033</td>
<td>-0.016</td>
<td>-0.024</td>
<td>-0.040</td>
<td>-0.018</td>
</tr>
<tr>
<td>0.302</td>
<td>2</td>
<td>0.033</td>
<td>-0.027</td>
<td>0.038</td>
<td>0.059</td>
<td>-0.030</td>
</tr>
<tr>
<td>0.131</td>
<td>3</td>
<td>-0.016</td>
<td>-0.017</td>
<td>-0.076</td>
<td>-0.057</td>
<td>0.076</td>
</tr>
<tr>
<td>0.339</td>
<td>4</td>
<td>-0.024</td>
<td>0.008</td>
<td>-0.076</td>
<td>-0.003</td>
<td>-0.004</td>
</tr>
<tr>
<td>-0.360</td>
<td>5</td>
<td>-0.040</td>
<td>0.029</td>
<td>-0.057</td>
<td>-0.003</td>
<td>0.003</td>
</tr>
<tr>
<td>-0.091</td>
<td>6</td>
<td>-0.018</td>
<td>-0.050</td>
<td>0.056</td>
<td>0.016</td>
<td>0.043</td>
</tr>
</tbody>
</table>

| $S_4$ | -0.065 | 0.003 | -0.119 | -0.049 | 0.003 | 0.028 |
| $A$ $S_4$-$2$ | 0.032 | -0.001 | 0.060 | 0.024 | -0.001 | -0.014 |
| +3 | 0.016 | -0.019 | **0.060** | -0.052 | -0.058 | 0.063 |
| $B$ +6 | -0.001 | -0.069 | **0.116** | -0.036 | -0.015 | **0.063** |

| -2B $C$ | 0.003 | 0.138 | -0.232 | 0.071 | 0.029 | -0.125 |
| $D$ | 0.040 | 0.050 | -0.076 | 0.076 | 0.059 | -0.076 |

| $C+D$ = $E$ | 0.043 | 0.188 | -0.308 | 0.147 | 0.088 | -0.202 |

| $m X E$ = $F_4$ | 0.043 | 0.190 | -0.312 | 0.149 | 0.089 | -0.204 |

<table>
<thead>
<tr>
<th><strong>0.975</strong> $T$</th>
<th>0.987 $\sqrt{T}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.013 $m$</td>
<td></td>
</tr>
</tbody>
</table>
Fourth factor residuals and the extracted fifth centroid factor ($F_5$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.043</td>
<td>0.25</td>
<td>-0.003</td>
<td>-0.031</td>
<td>-0.044</td>
<td>-0.009</td>
<td></td>
</tr>
<tr>
<td>0.190</td>
<td>0.025</td>
<td>0.032</td>
<td>0.010</td>
<td>0.042</td>
<td>0.009</td>
<td></td>
</tr>
<tr>
<td>-0.312</td>
<td>-0.003</td>
<td>0.042</td>
<td>-0.029</td>
<td>-0.029</td>
<td>0.013</td>
<td></td>
</tr>
<tr>
<td>0.149</td>
<td>-0.031</td>
<td>-0.020</td>
<td>-0.029</td>
<td>-0.016</td>
<td>0.026</td>
<td></td>
</tr>
<tr>
<td>0.089</td>
<td>-0.044</td>
<td>0.012</td>
<td>-0.029</td>
<td>-0.016</td>
<td>0.022</td>
<td></td>
</tr>
<tr>
<td>-0.204</td>
<td>-0.009</td>
<td>-0.011</td>
<td>-0.007</td>
<td>0.046</td>
<td>0.062</td>
<td></td>
</tr>
</tbody>
</table>

$S_5$  

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.031</td>
<td>-0.024</td>
<td>0.018</td>
<td>0.010</td>
<td>-0.007</td>
<td>-0.030</td>
</tr>
<tr>
<td>+1</td>
<td><strong>0.031</strong></td>
<td>0.001</td>
<td>0.015</td>
<td>-0.021</td>
<td>-0.051</td>
<td>-0.039</td>
</tr>
<tr>
<td>+3</td>
<td><strong>0.028</strong></td>
<td>0.043</td>
<td><strong>0.015</strong></td>
<td>-0.050</td>
<td>-0.080</td>
<td>-0.026</td>
</tr>
<tr>
<td>B</td>
<td><strong>0.053</strong></td>
<td><strong>0.043</strong></td>
<td><strong>0.048</strong></td>
<td>-0.040</td>
<td>-0.038</td>
<td>-0.018</td>
</tr>
</tbody>
</table>

$-2B$  

| C      | -0.106| -0.002| -0.031| 0.042| 0.102| 0.078|
| D      | -0.044| -0.042| -0.032| 0.046| 0.062| 0.026|

$C+D=E$  

| E      | -0.150| -0.044| -0.063| 0.088| 0.164| 0.104|

$m \times E = F_5$  

| -0.191| -0.057| -0.080| 0.112| 0.210| 0.134| 1.279| m | 0.613| T | 0.782| T |
### Fifth factor residuals and the extracted sixth centroid factor ($F_6$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.191</td>
<td>0.014</td>
<td>-0.018</td>
<td>-0.009</td>
<td>-0.004</td>
<td>0.017</td>
<td></td>
</tr>
<tr>
<td>-0.057</td>
<td>0.028</td>
<td>0.016</td>
<td>0.054</td>
<td>0.016</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-0.080</td>
<td>0.018</td>
<td>0.038</td>
<td>-0.020</td>
<td>-0.012</td>
<td>0.023</td>
<td></td>
</tr>
<tr>
<td>0.112</td>
<td>-0.009</td>
<td>-0.014</td>
<td>-0.020</td>
<td>-0.040</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>0.210</td>
<td>-0.004</td>
<td>0.024</td>
<td>-0.012</td>
<td>-0.040</td>
<td>-0.006</td>
<td></td>
</tr>
<tr>
<td>0.134</td>
<td>0.017</td>
<td>-0.004</td>
<td>0.003</td>
<td>0.031</td>
<td>0.034</td>
<td></td>
</tr>
</tbody>
</table>

$S_6$

| A | $S_6$/$-2$ | 0.000 | -0.029 | 0.010 | 0.011 | -0.016 | -0.031 |
| B | +4 | -0.009 | -0.043 | -0.011 | **0.011** | -0.056 | -0.019 |

-2B

| C | 0.018 | 0.085 | 0.022 | -0.022 | 0.111 | 0.038 |
| D | 0.018 | 0.038 | 0.028 | -0.040 | 0.054 | 0.023 |

| C+D = | E | 0.036 | 0.123 | 0.049 | -0.061 | 0.165 | 0.062 |

$m \times E = F_6$

| 0.051 | 0.175 | 0.070 | -0.087 | 0.234 | 0.088 |

| 0.497 | $T$ | 0.704 | $\sqrt{T}$ | 1.420 | m |
After First Reiteration

<table>
<thead>
<tr>
<th>Tests</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
<th>VI</th>
<th>$h^2$ obtained</th>
<th>$h^2$ Guessed</th>
<th>Diff.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.352</td>
<td>-0.109</td>
<td>-0.224</td>
<td>0.043</td>
<td>-0.191</td>
<td>0.051</td>
<td>0.227</td>
<td>0.276</td>
<td>-0.049</td>
</tr>
<tr>
<td>2</td>
<td>0.738</td>
<td>0.330</td>
<td>0.302</td>
<td>0.190</td>
<td>-0.057</td>
<td>0.175</td>
<td>0.815</td>
<td>0.700</td>
<td>0.115</td>
</tr>
<tr>
<td>3</td>
<td>0.631</td>
<td>0.156</td>
<td>0.131</td>
<td>-0.312</td>
<td>-0.080</td>
<td>0.070</td>
<td>0.548</td>
<td>0.539</td>
<td>0.009</td>
</tr>
<tr>
<td>4</td>
<td>0.607</td>
<td>-0.331</td>
<td>0.339</td>
<td>0.149</td>
<td>0.112</td>
<td>0.087</td>
<td>0.636</td>
<td>0.620</td>
<td>0.016</td>
</tr>
<tr>
<td>5</td>
<td>0.672</td>
<td>0.252</td>
<td>-0.360</td>
<td>0.089</td>
<td>0.210</td>
<td>0.234</td>
<td>0.752</td>
<td>0.668</td>
<td>0.084</td>
</tr>
<tr>
<td>6</td>
<td>0.819</td>
<td>-0.264</td>
<td>-0.091</td>
<td>-0.204</td>
<td>0.134</td>
<td>0.088</td>
<td>0.816</td>
<td>0.738</td>
<td>0.078</td>
</tr>
</tbody>
</table>

It has been found that the difference between obtained and guessed communalities are more than 0.100 after first reiteration. Therefore, the factorization was done once again to get fairly stable communalities by putting the new communalities obtained after first reiteration.
### After Second Reiteration

#### Correlation matrix and the extracted first centroid factor \( (F_1) \)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.19</td>
<td>0.16</td>
<td>0.15</td>
<td>0.25</td>
<td>0.32</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0.19</td>
<td>0.53</td>
<td>0.48</td>
<td>0.53</td>
<td>0.46</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0.16</td>
<td>0.54</td>
<td>0.3</td>
<td>0.36</td>
<td>0.54</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.15</td>
<td>0.45</td>
<td>0.3</td>
<td>0.2</td>
<td>0.55</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0.25</td>
<td>0.5</td>
<td>0.36</td>
<td>0.2</td>
<td>0.52</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0.32</td>
<td>0.44</td>
<td>0.52</td>
<td>0.57</td>
<td>0.56</td>
<td></td>
</tr>
</tbody>
</table>

\[
S_1 = \begin{bmatrix} 1.07 & 2.12 & 1.87 & 1.7 & 1.9 & 2.39 \\ D = \begin{bmatrix} 0.227 & 0.815 & 0.548 & 0.636 & 0.752 & 0.816 \\ S_1 + D = \begin{bmatrix} 1.297 & 2.935 & 2.418 & 2.336 & 2.652 & 3.206 \\ m \times E = \begin{bmatrix} 0.337 & 0.762 & 0.628 & 0.606 & 0.688 & 0.832 \end{bmatrix} \end{bmatrix}
\]

\[
\begin{bmatrix} 14.845 \\ 3.852 \end{bmatrix}
\]
First factor residuals and the extracted second centroid factor \( (F_2) \)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.337</td>
<td>-0.337</td>
<td>-0.762</td>
<td>-0.628</td>
<td>-0.606</td>
<td>-0.688</td>
<td>-0.832</td>
</tr>
<tr>
<td>0.762</td>
<td>0.052</td>
<td>0.018</td>
<td>0.005</td>
<td>-0.174</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.628</td>
<td>-0.081</td>
<td>0.072</td>
<td>0.017</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.606</td>
<td>-0.217</td>
<td>0.045</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.688</td>
<td>-0.217</td>
<td>-0.053</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.832</td>
<td>0.065</td>
<td>-0.013</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\[ S_2 = -0.115 \quad -0.236 \quad -0.155 \quad -0.269 \quad -0.279 \quad -0.125 \]

\[ A = \frac{S_2}{2} \]
<table>
<thead>
<tr>
<th>( S_2/2 )</th>
<th>( S_2/2 )</th>
<th>( S_2/2 )</th>
<th>( S_2/2 )</th>
<th>( S_2/2 )</th>
<th>( S_2/2 )</th>
<th>( S_2/2 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.057</td>
<td>0.18</td>
<td>0.078</td>
<td>0.135</td>
<td>0.140</td>
<td>0.062</td>
<td></td>
</tr>
<tr>
<td>+5</td>
<td>+5</td>
<td>+5</td>
<td>+5</td>
<td>+5</td>
<td>+5</td>
<td>+5</td>
</tr>
<tr>
<td>0.075</td>
<td>0.093</td>
<td>0.005</td>
<td>-0.083</td>
<td>0.140</td>
<td>0.009</td>
<td></td>
</tr>
<tr>
<td>+2</td>
<td>+2</td>
<td>+2</td>
<td>+2</td>
<td>+2</td>
<td>+2</td>
<td>+2</td>
</tr>
<tr>
<td>0.009</td>
<td>( \textbf{0.093} )</td>
<td>0.057</td>
<td>-0.065</td>
<td>( \textbf{0.145} )</td>
<td>-0.165</td>
<td></td>
</tr>
<tr>
<td>+3</td>
<td>+3</td>
<td>+3</td>
<td>+3</td>
<td>+3</td>
<td>+3</td>
<td>+3</td>
</tr>
<tr>
<td>-0.043</td>
<td>( \textbf{0.155} )</td>
<td>( \textbf{0.057} )</td>
<td>-0.146</td>
<td>( \textbf{0.073} )</td>
<td>-0.147</td>
<td></td>
</tr>
</tbody>
</table>

\[ -2B \]  
<table>
<thead>
<tr>
<th>( C )</th>
<th>( D )</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.085</td>
<td>-0.310</td>
</tr>
<tr>
<td>0.067</td>
<td>-0.194</td>
</tr>
</tbody>
</table>

\[ C + D = E \]
<table>
<thead>
<tr>
<th>( E )</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.152</td>
</tr>
</tbody>
</table>

\[ m \times E = F_2 \]
<table>
<thead>
<tr>
<th>( F_2 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.103</td>
</tr>
</tbody>
</table>

\[ 2.192 \quad T \]
\[ 1.480 \quad UT \]
\[ 0.676 \quad m \]
Second factor residuals and the extracted third centroid factor ($F_3$)

<table>
<thead>
<tr>
<th>Tests</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.103</td>
<td>-0.032</td>
<td>-0.038</td>
<td>-0.090</td>
<td>0.043</td>
<td>0.007</td>
<td></td>
</tr>
<tr>
<td>-0.341</td>
<td>-0.032</td>
<td>0.007</td>
<td>0.135</td>
<td>-0.078</td>
<td>-0.066</td>
<td></td>
</tr>
<tr>
<td>-0.132</td>
<td>-0.038</td>
<td>0.017</td>
<td>-0.035</td>
<td>-0.105</td>
<td>0.059</td>
<td></td>
</tr>
<tr>
<td>0.344</td>
<td>-0.090</td>
<td>0.105</td>
<td>-0.035</td>
<td>-0.133</td>
<td>-0.064</td>
<td></td>
</tr>
<tr>
<td>-0.245</td>
<td>0.043</td>
<td>-0.108</td>
<td>-0.105</td>
<td>-0.133</td>
<td>0.025</td>
<td></td>
</tr>
<tr>
<td>0.317</td>
<td>0.007</td>
<td>-0.086</td>
<td>0.039</td>
<td>-0.044</td>
<td>0.065</td>
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</tr>
</tbody>
</table>

$S_3$:

$S_3/-1.47T$

<table>
<thead>
<tr>
<th>A</th>
<th>2</th>
<th>0.054</th>
<th>0.052</th>
<th>0.066</th>
<th>0.083</th>
<th>0.104</th>
<th>0.020</th>
</tr>
</thead>
<tbody>
<tr>
<td>+5</td>
<td>0.098</td>
<td>-0.056</td>
<td>-0.039</td>
<td>-0.050</td>
<td>0.104</td>
<td>0.044</td>
<td></td>
</tr>
<tr>
<td>+1</td>
<td>0.098</td>
<td>-0.088</td>
<td>-0.076</td>
<td>-0.139</td>
<td>0.147</td>
<td>0.051</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>+6</td>
<td>0.105</td>
<td>-0.174</td>
<td>-0.037</td>
<td>-0.183</td>
<td>0.212</td>
<td>0.051</td>
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</tbody>
</table>

-2B

<table>
<thead>
<tr>
<th>C</th>
<th>-0.210</th>
<th>0.348</th>
<th>0.075</th>
<th>0.366</th>
<th>-0.424</th>
<th>-0.103</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>-0.090</td>
<td>0.108</td>
<td>0.105</td>
<td>0.135</td>
<td>-0.133</td>
<td>-0.066</td>
</tr>
</tbody>
</table>

C+D = E

<table>
<thead>
<tr>
<th>-0.299</th>
<th>0.456</th>
<th>0.179</th>
<th>0.501</th>
<th>-0.557</th>
<th>-0.169</th>
<th>2.161</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.47</td>
<td>√T</td>
</tr>
</tbody>
</table>

mX E = F_3

| -0.203| 0.310 | 0.122 | 0.341 | -0.379| -0.115| 0.680 | m |
Third factor residuals and the extracted fourth centroid factor ($F_4$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.203</td>
<td>0.031</td>
<td>-0.013</td>
<td>-0.020</td>
<td>-0.034</td>
<td>-0.016</td>
<td></td>
</tr>
<tr>
<td>0.310</td>
<td>0.031</td>
<td>-0.031</td>
<td>0.029</td>
<td>0.039</td>
<td>-0.031</td>
<td></td>
</tr>
<tr>
<td>0.122</td>
<td>-0.013</td>
<td>-0.021</td>
<td></td>
<td>-0.077</td>
<td>-0.058</td>
<td>0.073</td>
</tr>
<tr>
<td>0.341</td>
<td>-0.020</td>
<td>-0.001</td>
<td>-0.077</td>
<td>-0.004</td>
<td>-0.025</td>
<td></td>
</tr>
<tr>
<td>-0.379</td>
<td>-0.034</td>
<td>0.009</td>
<td>-0.058</td>
<td>-0.004</td>
<td></td>
<td>-0.019</td>
</tr>
<tr>
<td>-0.115</td>
<td>-0.016</td>
<td>-0.051</td>
<td>0.053</td>
<td>-0.005</td>
<td>0.021</td>
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</table>

$S_4$

<table>
<thead>
<tr>
<th>Tests</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-0.052</td>
<td>-0.032</td>
<td>-0.126</td>
<td>-0.076</td>
<td>-0.036</td>
<td>-0.017</td>
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</table>

$A$

<table>
<thead>
<tr>
<th>Tests</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>$S_4$</td>
<td>0.026</td>
<td>0.016</td>
<td>0.063</td>
<td>0.038</td>
<td>0.018</td>
<td>0.009</td>
</tr>
<tr>
<td>$S_4/2$</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+3</td>
<td>0.013</td>
<td>-0.005</td>
<td><strong>0.063</strong></td>
<td>-0.039</td>
<td>-0.041</td>
<td>0.082</td>
</tr>
<tr>
<td>B</td>
<td>+6</td>
<td>-0.003</td>
<td>-0.056</td>
<td><strong>0.116</strong></td>
<td>-0.043</td>
<td>-0.019</td>
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</tbody>
</table>

$-2B$

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>0.007</td>
<td>0.112</td>
<td>-0.233</td>
<td>0.087</td>
<td>0.039</td>
<td>-0.163</td>
</tr>
<tr>
<td>D</td>
<td>0.034</td>
<td>0.051</td>
<td>-0.077</td>
<td>0.077</td>
<td>0.058</td>
<td>-0.073</td>
</tr>
</tbody>
</table>

$C+D = E$

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.041</td>
<td>0.162</td>
<td>-0.310</td>
<td>0.164</td>
<td>0.097</td>
<td>-0.237</td>
<td></td>
</tr>
</tbody>
</table>

$m \times E = F_4$

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.041</td>
<td>0.162</td>
<td>-0.308</td>
<td>0.163</td>
<td>0.097</td>
<td>-0.236</td>
<td></td>
</tr>
</tbody>
</table>

**1.010**  **1.004**  **0.996**
Fourth factor residuals and the extracted fifth centroid factor ($F_5$)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.041</td>
<td>-0.041</td>
<td>-0.162</td>
<td>0.308</td>
<td>-0.163</td>
<td>-0.097</td>
<td>0.236</td>
</tr>
<tr>
<td>0.162</td>
<td>0.025</td>
<td>0.019</td>
<td>0.003</td>
<td>0.024</td>
<td>0.008</td>
<td></td>
</tr>
<tr>
<td>-0.308</td>
<td>-0.001</td>
<td>0.029</td>
<td>-0.027</td>
<td>-0.029</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>0.163</td>
<td>-0.027</td>
<td>-0.027</td>
<td>-0.027</td>
<td>-0.020</td>
<td>0.014</td>
<td></td>
</tr>
<tr>
<td>0.097</td>
<td>-0.038</td>
<td>-0.006</td>
<td>-0.029</td>
<td>-0.020</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>-0.236</td>
<td>-0.007</td>
<td>-0.012</td>
<td>-0.020</td>
<td>0.034</td>
<td>0.044</td>
<td></td>
</tr>
</tbody>
</table>

$S_5$  
-0.047  0.008  -0.057  -0.037  -0.018  0.019

A  
$S_5/-2$  
+3  0.023  -0.004  0.028  0.018  0.009  -0.010  
+2  0.048  0.025  0.028  -0.008  -0.019  -0.009

B  
+1  0.048  0.050  0.046  -0.032  -0.033  -0.008

-2B  
C  -0.096  -0.050  -0.057  0.017  0.039  0.018
D  -0.038  -0.029  -0.029  0.034  0.044  0.014

C+D=  
E  -0.133  -0.079  -0.085  0.051  0.083  0.032

$m \times E = F_5$  
-0.196  -0.116  -0.125  0.075  0.122  0.047

0.462  0.679

1.473  m
### Fifth factor residuals and the extracted sixth centroid factor \( (F_6) \)

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.196</td>
<td>0.002</td>
<td>-0.025</td>
<td>-0.012</td>
<td>-0.014</td>
<td>0.003</td>
<td></td>
</tr>
<tr>
<td>-0.116</td>
<td></td>
<td>0.004</td>
<td>0.012</td>
<td>0.038</td>
<td>0.013</td>
<td></td>
</tr>
<tr>
<td>-0.125</td>
<td>-0.025</td>
<td>0.014</td>
<td>-0.017</td>
<td>-0.013</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>0.075</td>
<td>-0.012</td>
<td>-0.018</td>
<td>-0.017</td>
<td>-0.029</td>
<td>0.010</td>
<td></td>
</tr>
<tr>
<td>0.122</td>
<td>-0.014</td>
<td>0.008</td>
<td>-0.013</td>
<td>-0.029</td>
<td>-0.002</td>
<td></td>
</tr>
<tr>
<td>0.047</td>
<td>0.003</td>
<td>-0.007</td>
<td>-0.014</td>
<td>0.030</td>
<td>0.038</td>
<td></td>
</tr>
</tbody>
</table>

\[ S_6 = -0.046 \quad -0.001 \quad -0.065 \quad -0.016 \quad 0.020 \quad 0.030 \]

\[ \begin{align*}
A & \quad S_6/2 \\
B & \quad +3 \quad -0.002 \quad 0.015 \quad \mathbf{0.033} \quad -0.009 \quad -0.023 \quad -0.009 \\
& \quad +2 \quad 0.000 \quad \mathbf{0.015} \quad \mathbf{0.037} \quad 0.002 \quad 0.015 \quad 0.004 \\
& \quad +4 \quad -0.012 \quad \mathbf{-0.004} \quad \mathbf{0.020} \quad \mathbf{0.002} \quad -0.014 \quad 0.014 \\
& \quad +6 \quad -0.009 \quad \mathbf{-0.011} \quad \mathbf{0.006} \quad \mathbf{0.033} \quad 0.024 \quad \mathbf{0.014} \\
& \quad +5 \quad -0.023 \quad \mathbf{-0.003} \quad \mathbf{-0.007} \quad \mathbf{0.004} \quad \mathbf{0.024} \quad \mathbf{0.013} \\
\end{align*} \]

\[ \begin{align*}
-2B & \quad C \\
& \quad D \\
C+D & = \quad E \\
& \quad F_6 \\
\end{align*} \]

\[ \begin{align*}
\text{C+D} & = \quad E \\
\text{m X E} & = \quad F_6 \\
\end{align*} \]

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.029</td>
<td>-0.048</td>
<td>-0.090</td>
<td>0.049</td>
<td>0.085</td>
</tr>
<tr>
<td>( m \times E ) &amp; ( F_6 )</td>
<td>0.051</td>
<td>-0.084</td>
<td>-0.157</td>
<td>0.084</td>
<td>0.147</td>
</tr>
</tbody>
</table>

\[ \begin{align*}
& \mathbf{0.332} \quad \mathbf{0.576} \\
& \mathbf{1.736} \quad \mathbf{m} \\
\end{align*} \]
After Second Reiteration

Table 6.3
Factors

<table>
<thead>
<tr>
<th>Tests</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
<th>(h^2) obtained</th>
<th>(h^2) Guessed</th>
<th>Diff.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.337</td>
<td>0.103</td>
<td>-0.203</td>
<td>0.041</td>
<td>-0.196</td>
<td>0.208</td>
<td>0.227</td>
<td>-0.019</td>
</tr>
<tr>
<td>2</td>
<td>0.762</td>
<td>-0.341</td>
<td>0.310</td>
<td>0.162</td>
<td>-0.116</td>
<td>0.840</td>
<td>0.815</td>
<td>0.024</td>
</tr>
<tr>
<td>3</td>
<td>0.628</td>
<td>-0.132</td>
<td>0.122</td>
<td>-0.308</td>
<td>-0.125</td>
<td>0.562</td>
<td>0.548</td>
<td>0.013</td>
</tr>
<tr>
<td>4</td>
<td>0.606</td>
<td>0.344</td>
<td>0.341</td>
<td>0.163</td>
<td>0.075</td>
<td>0.641</td>
<td>0.636</td>
<td>0.005</td>
</tr>
<tr>
<td>5</td>
<td>0.688</td>
<td>-0.245</td>
<td>-0.379</td>
<td>0.097</td>
<td>0.122</td>
<td>0.724</td>
<td>0.752</td>
<td>-0.028</td>
</tr>
<tr>
<td>6</td>
<td>0.832</td>
<td>0.317</td>
<td>-0.115</td>
<td>-0.236</td>
<td>0.047</td>
<td>0.867</td>
<td>0.816</td>
<td>0.051</td>
</tr>
</tbody>
</table>
Appendix – E

Calculation of the matrix of correlation among the oblique factors:

Matrix of correlation among the oblique factors $\phi$ can be calculated by the method given by Comery which is as given below:

$$\phi = D(C')^{-1} D$$

Here $C'$ is the matrix $C$, matrix of correlation between reference axis $C$. Equation no 1 can be written as.

$$\phi = DC^{-1} D$$

Equation no (ii) can be calculated if the value of $C^{-1}$ and $D$ is available. The value of $C^{-1}$ can be calculated as given below:

The matrix $\Phi$ must have the value 1.0 in all the diagonal cells. It is found that for oblique solution if the value of $C$ matrix are equal to 1.0 even though the diagonal value of $C^{-1}$ is generally different from 1.0. First of all we have to select the diagonal value of $D$ in such a manner that the product matrix $DC^{-1} D$ gives diagonal value of 1.0.

The values of diagonal cells in $D$ can be determined by the following method which will have make $DC^{-1} D$ have unities in the diagonal cells are:

$$d_{ii} = \frac{1}{\sqrt{C_{ii}}}$$

Where $C_{ii}$ is the diagonal element of matrix $C^{-1}$ that relates to diagonal elements of $D$, $d_{ii}$. Multiplying $C^{-1}$ on the left by $D$ is equal to multiplying column $i$ of $C^{-1}$ by $d_{ii}$. Multiplying $C^{-1}$ on right by $D$ is equal to multiplying the elements of row by $d_{ii}$. By using eq (iii) to get the $d_{ii}$, an element in the diagonal of $\phi = DC^{-1} D$ is

$$\phi_{ii} = \frac{1}{\sqrt{C_{ii}}} = 1.0 \quad \ldots..(IV)$$
The already calculated matrix of intercorrelations of reference axes C is shown in table 6.11

\[
\begin{bmatrix}
1.35 & -.175 & -.085 & .578 & -.608 \\
-.176 & .999 & -.317 & -.141 & -.315 \\
.085 & -.317 & .998 & .692 & .213 \\
.578 & -.141 & .692 & .996 & .014 \\
-.607 & -.315 & .213 & .014 & .999 \\
\end{bmatrix}
\]

**Computing the inverse of C**

The inverse of the matrix C was computed by the computer.

\[
C^{-1} = \begin{bmatrix}
2.430 & 1.021 & 1.309 & -2.197 & 1.552 \\
1.023 & 1.634 & .944 & -1.032 & .951 \\
1.311 & .944 & 2.936 & -2.674 & .507 \\
-2.198 & -1.030 & -2.673 & 4.007 & -1.148 \\
1.550 & .948 & .505 & -1.146 & 2.152 \\
\end{bmatrix}
\]

**Calculation of the diagonal elements of the matrix D:**

\[
\begin{align*}
D_{11} &= \frac{1}{\sqrt{c_{11}}} \cdot \frac{1}{\sqrt{2.430}} = \frac{1}{\sqrt{5.54}} = .641 \\
D_{22} &= \frac{1}{\sqrt{c_{22}}} \cdot \frac{1}{\sqrt{1.634}} = \frac{1}{\sqrt{2.61}} = .782 \\
D_{33} &= \frac{1}{\sqrt{c_{33}}} \cdot \frac{1}{\sqrt{2.936}} = \frac{1}{\sqrt{3.64}} = .583 \\
D_{44} &= \frac{1}{\sqrt{c_{44}}} \cdot \frac{1}{\sqrt{4.007}} = \frac{1}{\sqrt{4.01}} = .641 \\
D_{55} &= \frac{1}{\sqrt{c_{55}}} \cdot \frac{1}{\sqrt{2.152}} = \frac{1}{\sqrt{2.16}} = .641
\end{align*}
\]
Diagonal Matrix, D

\[
D = \begin{bmatrix}
0.641 & 0 & 0 & 0 & 0 \\
0 & 0.782 & 0 & 0 & 0 \\
0 & 0 & 0.583 & 0 & 0 \\
0 & 0 & 0 & 0.499 & 0 \\
0 & 0 & 0 & 0 & 0.682 \\
\end{bmatrix}
\]

The product of diagonal matrix D and inverse of matrix C follows:

\[
DC^{-1} = \begin{bmatrix}
0.641 & 0 & 0 & 0 & 0 \\
0 & 0.782 & 0 & 0 & 0 \\
0 & 0 & 0.583 & 0 & 0 \\
0 & 0 & 0 & 0.499 & 0 \\
0 & 0 & 0 & 0 & 0.682 \\
\end{bmatrix}
\]

\[
\begin{bmatrix}
2.430 & 1.021 & 1.309 & -2.197 & 1.552 \\
1.023 & 1.634 & 0.944 & -1.032 & 0.951 \\
1.311 & 0.944 & 2.936 & -2.674 & 0.507 \\
-2.198 & -1.030 & -2.673 & 4.007 & -1.148 \\
1.550 & 0.948 & 0.505 & -1.146 & 2.152 \\
\end{bmatrix}
\]

\[
= \begin{bmatrix}
1.557 & 0.654 & 0.839 & -1.408 & 0.995 \\
0.799 & 1.277 & 0.738 & -0.807 & 0.743 \\
0.764 & 0.550 & 1.712 & -1.559 & 0.296 \\
-1.096 & -0.513 & -1.334 & 1.999 & -0.573 \\
1.057 & 0.646 & 0.344 & -0.782 & 1.467 \\
\end{bmatrix}
\]
The product of $D^{-1}$ and diagonal matrix $D$ follows:

$$DC^{-1}D = \phi$$

$$\begin{bmatrix}
1.557 & .654 & .839 & -1.408 & .995 \\
.799 & 1.277 & .738 & -0.807 & .743 \\
.764 & .550 & 1.712 & -1.559 & .296 \\
-1.096 & -.513 & -1.334 & 1.999 & -.573 \\
1.057 & .646 & .334 & -.782 & 1.467 \\
\end{bmatrix}$$

This is the matrix of correlations among the oblique factors.