APPENDICES
Appendix – A

EMOTIONAL INTELLIGENCE INVENTORY

Please provide the following information

Name: __________________________ Age: __________________________
Gender: Male / Female____________ Class: __________________________
Name of the College: ____________ Combination:_____________________
Type of College: Govt / Private_____ Date: __________________________
Locality: Urban / Rural___________

INSTRUCTIONS

On the following pages, there are given some sentences. You have to select the correct alternative by using the following five point scale. Tick (✓) against one point. Please try to mark the terms of which you actually feel.

SA = Strongly Agree
A = Agree
U = Uncertain
DA = Disagree
SDA = Strongly Disagree

A) Self Awareness

1. I am able to identify my feelings. □ □ □ □ □
2. I have learned a lot about myself through my feelings and emotions. □ □ □ □ □
3. I understand the reasons for my ‘moods’. □ □ □ □ □
4. I am clearly able to see how my feelings impact my performance. □ □ □ □ □
5. My values and goals are very clear in my mind. □ □ □ □ □
6. I am aware of my strengths and weakness. □ □ □ □ □
7. I frequently seek feedback on my behavior / performance.

8. I have full confidence in myself and in my decisions.

9. I take initiative to meet people in social situation.

10. When I contribute to group discussions I believe my contributions are as valuable as those of others.

11. If I am convinced that my position is right, I prefer to maintain my position, even if it means becoming unpopular.

12. I am clear what I want from life.

B) Self Regulation

1. I can achieve what I want through my determination.

2. I don’t easily give up even if I received set backs.

3. When I have a problem that creates undue tension, I try to relax and gain a feeling of frequently so that I can re-evaluate things.

4. When I face a problem I focus on what I can do to solve it.

5. I can adjust very quickly to new challenges, problem and information.

6. I am sensitive to the development in the environment and capture the opportunity there.
7. I am able to anticipate changes, and I plan in advance to encash the opportunities.

8. I am able to handle multiple demands and rapid changes.

9. I am quite flexible in my approach to the life and problems.

10. I am frequently anticipate solutions to my problems.

11. When a certain approach to a problem does not work, I can quickly re-orient my thinking.

12. I seek out fresh ideas from a wide variety of sources.

C) Motivation
1. I consistently try to improve my performance.

2. I set challenging goals for myself and strive to achieve them.

3. I work hard for a “better” future reward rather than accept as lesser reward now.

4. I constantly scan the environment to seize any new opportunity.

5. I prefer to be proactive.

6. I mobilize others through unusual, enterprising effort.

7. I take initiative to start dialogue for a new adventure.

8. I prefer to be idea leader.
9. I believe in performance rather than just following the rules.

10. I believe where there is a will there is way.

11. I start any activity with the firm determination to complete it.

12. Under pressure, I am confident I will find the way.

D) Social-Awareness

1. People don’t have to tell me what they feel I can sense it.

2. I can sense the pulse of others and state unspoken feelings.

3. I listen to the feelings of people while they are talking.

4. I can sense the feelings of people when I walk into a room.

5. I anticipate people’s need try to satisfy them.

6. I try to understand and meet the expectations of people.

7. I seek information about people’s need and then provide service accordingly.

8. I take initiative in talking to people in order to serve them better.

9. I am very comfortable in working with people of different background.

10. I am able to identify who has real power in the group / organization.
11. I am able to relate well with people who matter in the organizational dynamics.

12. I am able to influence the opinion of import people.

E) Social Skills
1. I am able to convince people.
2. I am able to influence the opinion of import people.
3. I present myself such a way that people get impressed.
4. I keep my knowledge base updated and influence people thought that.
5. I am able to read the needs of the hour and influence people through my initiative.
6. I am a good communicator.
7. I am able to put across my messages effectively.
8. I use a variety of medium of communication to get the desired response.
9. I am able to arouse enthusiasm in people.
10. I emerge as a natural leader during unstructured situation.
11. I recognize the need for removing the barriers.
12. I create such an atmosphere where people enthusiastically interact and participate in the team work.

I build team identify and promote commitment among team members.
PERSONALITY TRAITS SCALE

GUIDELINES

This scale consists of 48 statements. Read each statement and encircle the appropriate letter which indicates your behavior level in the response sheet provided separately. One circle only should be made against each statement. Please see that you cover all the items sequentially. Please do not make any mark in this tool. This is reusable.


1. I trust my ability.
2. I give up my task at the first difficulty.
3. I am willing to put aside personal benefit to join group work.
4. I feel depressed at the slightest failure.
5. I keep my emotions under control.
6. I do not accept responsibility of any kind.
7. I am polite to others irrespective of status.
8. I feel uncomfortable when people are around me.
9. I am willing to take the lead on the tasks in which I am proficient.
10. I am dependent on others.
11. I am hopeful of my future.
12. I am dependent on others.
13. I feel ashamed of myself when my poor performance is noticed by others.
14. I feel restless when I encounter difficulty in the execution of a task.
15. I participate in group work overlooking personal inconveniences.
16. I feel elated at the slightest measure of success.
17. I have a refined way of expressing my emotions.
18. When I am compelled to accept responsibility I put the blame on others for failure.

19. I am polite to others, irrespective of status.

20. I am avoided by others.

21. I am able to make others work with me.

22. I do not feel like doing anything on my own.

23. Life is worth living.

24. I feel myself worthless when others blame me.

25. I persist in my task till it is presence of strangers.

26. I am nervous in the presence of strangers.

27. I am cool and calm even when I receive a happy news.

28. I do group work unwillingly.

29. I accept responsibility willingly and discharge it to the best of my ability.

30. I give expression to my emotions violently.

31. I find pleasure in company.

32. I am impolite even to those superiors to me in age.

33. I show originality and independence in thought.

34. I avoid all leadership.

35. I know my strengths.

36. I feel others exploit my services.

37. I am not distracted when I am preoccupied with a task.

38. I am diffident even in familiar situations.

39. I am cool and calm even when I receive a sad news.

40. I do group work only when compelled.

41. I accept blame for failure to carry out the duty allotted to me.

42. In an emotional situation gestures and bodily behavior overwhelm me.

43. I am sought after by others.
44. I am impolite even to those superior to me in status.
45. I show originality and independence in action.
46. I am content to be an ordinary member of a group.
47. I know my weaknesses.
48. I feel others deceive me.
RESPONSE SHEET OF PERSONALITY TRAITS SCALE

Please provide the following information

Name: __________________________ Age: __________________________
Gender: Male / Female Class: __________________________
Name of the College: _________ Locality: Urban / Rural _________
Type of the College: Govt / Private Combination: __________________
Date: __________________________

GUIDELINES

Before starting to fill in this response sheet read the relevant items of the scale. Encircle the appropriate letters which indicate your behavior level. Attempt all the statements in the scale in compliance with the sequence.


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PROBLEM SOLVING ABILITY TEST IN MATHEMATICS

Time: 90 minutes

Please furnish the following information

1) Name of the student : ____________________________
2) Age : ____________________________
3) Class : ____________________________
4) Gender : Male / Female
5) Name of the College : ____________________________
6) Type of the College : Govt / Private
7) Locality : Urban / Rural
8) Date : ____________________________

Instructions to Students:

a) This test contains 60 items.
b) Read each item carefully.
c) Determine the correct answer from out of the four choices given under each item.
d) You have to write the alphabet of correct serial answer in the response sheet provided separately.
e) Do all the rough work at the end of the test paper where the blank sheets are given.
f) Please do not make any mark in this tool. This is reusable.
g) Do not turn the page until you are told do so.

Model Example:

A boy made a paper square of side 1.5 m. He has 225 Sq. meters of paper with him. How many such squares does he get?

a) 10  b) 100
   c) 1000  d) 10000

The above item answer serial is (b), so tick (✓) in the ‘b’ column as the answer in answer Sheet. You have to solve all the items similarly.
Appendix – C

PROBLEM SOLVING ABILITY TEST IN MATHEMATICS
(DRAFT)

Guide:
Dr. M.M. Pattanashetti
Visiting Professor,
Department of Post-Graduate
Studies and Research in Education,
B.E.A. College of Education,
Davangere-4.

Investigator:
Prashantha Kumara T.M.
Research Scholar

1. When a number is divided by 342, the remainder will be 47. When the same number is divided by 19, what would be the remainder?
   a) 9  b) 10  c) 15  d) 25

2. What will be 80% of a number whose 20% is 90?
   a) 144  b) 45  c) 36  d) 54

3. If half of X is Y and one third of Y is Z, then the value of Z is:
   a) Z=6% X  b) Z=16.66% X  c) Z=60% X  d) Z=30% X

4. How many 3 digit even numbers can be formed from the digits 2, 3, 5, 6, 7 and 9, no digit being repeated?
   a) 10  b) 20  c) 30  d) 40

5. A number consists of two digits whose sum is 15. If 9 is added to the number, then the digits change their places. Find the number.
   a) 69  b) 78  c) 87  d) 96
6. There are two numbers, the greater one is 9568 and the difference between the two numbers is 145. What is the other number?
   a) 9723  
   b) 9423  
   c) 9421  
   d) 9413

7. If Shailaja and Nirmala shared Rs. 1100 in the ratio of 5:17, calculate how much did Shailaja get?
   a) Rs. 200  
   b) Rs. 250  
   c) Rs. 300  
   d) Rs. 350

8. The monthly salary of A, B and C are in the ratio of 2:3:5. If ‘B’s salary is Rs. 400 more than ‘A’. Find the salary of ‘C’
   a) Rs. 800  
   b) Rs. 1200  
   c) Rs. 2000  
   d) Rs. 2400

9. The sume of two numbers is 80. If the number exceeds four times the smaller one by 5, find the smaller number.
   a) 5  
   b) 15  
   c) 20  
   d) 25

10. A class has 20 boys and 30 girls. The average age of boys is 11 years and that of girls is 12 years. Calculate the average age of the whole class.
   a) 11.6 yrs  
   b) 12 yrs  
   c) 10 yrs  
   d) 11.2 yrs

11. Rajesh does a work in 10 days and Krishna does the same work in 15 days. How many days do they take to complete the work, if both of them work together?
   a) 5 days  
   b) 6 days  
   c) 8 days  
   d) 9 days
12. Rs. 49 were divided among 150 children. Each girl got 50 paisa and boy 25 paisa. How many boys were there?
   a) 100   b) 102
   c) 104   d) 105

13. Two cats Billy and Kitty together catch sixty mice. If Billy catches three mice for every two caught by Kitty, calculate the number of mice caught by Kitty.
   a) 24   b) 30
   c) 36   d) 40

14. A person walks 10 kilometers towards south, taking first left turn and walks 12 kilometers, again turning second left and walks 15 kilometers. Calculate how far is he from the starting point?
   a) 16 kms   b) 15 kms
   c) 14 kms   d) 13 kms

15. A bag contains 400 coins, consisting of 50 paisa, 10 paisa, 5 paisa coins respectively. The total value of the coins of each kind is the same. Find the number of 5 paisa coins.
   a) 200   b) 250
   c) 150   d) 350

16. The average marks in Mathematics of 24 students in a class are 60. By the inclusion of a new student in the same class, the average is reduced to 58. Find the marks obtained by the new student.
   a) 10   b) 60
   c) 58   d) 25

17. A box contains 5 blue and 4 red marbles. In how many ways can 4 marbles be drawn so as to include only 2 red marbles?
   a) 30   b) 60
   c) 90   d) 120
18. The length of a room is 5.5 meter and width is 3.75 meter. Find the cost of paving the floor by slabs at the rate of Rs. 800 per sq. meters.
   a) Rs. 15000
   b) Rs. 15550
   c) Rs. 15600
   d) Rs. 16500

19. The length of a rectangular plot is 60 per cent more than its breadth. If the difference between the length and breadth of that rectangle is 24 cm, what is the area of the rectangle?
   a) 24000 sq.cm.
   b) 2480 sq.cm.
   c) 2560 sq.cm.
   d) 2650 sq.cm.

20. Eight persons complete a work in 6 days, working for 10 hours a day. Find the number of days required to complete the work, if they work for 8 hours a day.
   a) 6 days
   b) 7 days
   c) 10 days
   d) 12 days

21. A hemispherical bowl has radius 14 cm. How many liters of water does it hold?
   a) 5.25 liter
   b) 5.50 liter
   c) 5.75 liter
   d) 6.00 liter

22. 9 Oranges cost as much as 5 apples, cost as much as 3 mangoes, 4 mangoes cost as much as 9 plantains. If 3 plantains cost is 48 p., what will an orange cost?
   a) 9 p
   b) 8 p
   c) 16 p
   d) 12 p

23. Ramesh takes 2 minutes to cut 2 potatoes and 2 onions. If he takes same time to cut 1 potato and 4 onions, find the time taken to cut 4 potatoes and 1 onion.
   a) 2 minutes
   b) 2 ½ minutes
   c) 3 minutes
   d) 4 minutes
24. In how many ways can be group of 5 men and 2 women be made out of total of 7 men and 3 women?
   a) 126  b) 90
c) 63    d) 45

25. A pump ‘V’ – Guard’ can fill 1/3rd of a tank in 2 hours and another pump “Philips” can fill 1/4th of the tank in 3 hours. Calculate in how many hours can both the pumps together fill the tank.
   a) 3 hours  b) 4 hours
c) 5 hours    d) 6 hours

26. Sowmya takes 6 days less than the number of days taken by Bhagya to complete a piece of work. If both Sowmya and Bhagya together can complete the same work in 4 days. In how many days will Bhagya complete the work?
   a) 12 days  b) 16 days
c) 20 days    d) 24 days

27. Ganesh purchased certain number of Laddus. He gave half of them to the first fried, half of the remaining to the second friend, and so on. He and his fifth friend eat 33 Laddus. How many Laddus did Ganesh purchase?
   a) 510  b) 515
c) 528    d) 540

28. Sanganabasava rides a bicycle from his home to the Ashram. He covers 125 metres at the end of the first minute, during the second minute he covers 135 meters, 145 meters at the end of the third minute and so on. Then he reaches the Ashram at the end of 10 minutes. Find the distance between his home and Ashram.
   a) 1.7 kms  b) 2.0 kms
c) 2.2 kms    d) 2.5 kms
29. The speed of motor boat in still water is 15 km/hr. If it goes down the stream 30 kms and again returns to the starting point in a total time of 4 hrs and 30 minutes, find the speed of the stream.
   a) 2 km/hr  
   b) 3 km/hr  
   c) 5 km/hr  
   d) 6 km/hr

30. The length of the rivers Kaveri and Tungabhadra together is 850 kms. If river Kaveri is 250 kms shorter than the river Tungabhadra. Then the length of the river Tungabhadra will be
   a) 600 kms  
   b) 550 kms  
   c) 1100 kms  
   d) 300 kms

31. Kamala is 5 times older than her sister Veena. Who is 2 years less than her brother Vijaya. If Vijay is 10 years old, find the age of Kamala.
   a) 5  
   b) 42  
   c) 40  
   d) 35

32. Six equal squares are kept side by side to form a rectangle. The perimeter of the rectangle is 308 cm. Then the area of each square in sq. cm. is
   a) 484  
   b) 324  
   c) 256  
   d) 196

33. A train starts from Bangalore at 8.15 pm and reach Gulbarga at 10.30 am the next day. What is the duration of the journey?
   a) 10 hrs 45 mins.  
   b) 13 hrs 15 mins  
   c) 11 hrs 30 mins  
   d) 14 hrs 15 mins

34. Rama is 8 cm taller than Krishna. Hari is 12 cm shorter than Rama. If Krishna is 125 cm tall, how tall (in cm) is Hari?
   a) 129  
   b) 121  
   c) 105  
   d) 133
35. Swetha marked a dot in the first square, 2 dots in the second 4 dots in the third square and so on.... How many dots should she mark in the 8\textsuperscript{th} square?
   a) 120  
   b) 128  
   c) 136  
   d) 144

36. The average weight of 45 passengers on board an aircraft is 50 kg. If the weight of 5 members of crew is added, the average is reduced by half Kg. What is the average weight of the crew members?
   a) 49.5 kg.  
   b) 40 kg  
   c) 45 kg  
   d) 48 kg.

37. A solid cone of height of 10 cm, radius of base 20 cm is melted to take spherical balls shape each of 4 cm diameter. How many such balls can be made?
   a) 25  
   b) 75  
   c) 100  
   d) 125

38. In a camp the provision for food was made for 42 days. After 10 days 1300 more persons joined the camp, as a result of which the food lasted only 24 days more. How many persons originally present in the camp?
   a) 2900  
   b) 3100  
   c) 3900  
   d) 3375

39. Namitha stands in a row. Her number is ninth from both ends. If the students are arranged in a square formation then the total number of students is
   a) 289  
   b) 256  
   c) 196  
   d) 324

40. Bhavana has a piece of land which is in the shape of a rhombus. She wants her daughter and son to work on the land and produce different corps. She divided the land into two equal parts. If the
perimeter of the land is 400 m and one of the diagonals is 160 m. How much area each of them will get?

a) 4400 m²  b) 9600 m²  
c) 4700 m²  d) 4800 m²

41. A person travels from Bangalore to Bellary at a speed of 20 km per hour and returns at a speed of 30 km per hour. What is the average speed of both the trips?

a) 15 kmph  b) 18 kmph  
c) 24 kmph  d) 6 kmph

42. A worker is paid Rs. 100 per day for attending work. According to agreement he has to pay Rs. 50 if the absent himself for the work. In a month of 30 days he earns Rs. 2400. Find the number of days he was absent for the work.

a) 12  b) 8  
c) 6  d) 18

43. Both the circles have radius 4 units. The area enclosed by the circles is $28\pi$. Then the area of the shaded portion is:

a) $2\pi$  b) $3\pi$  
c) $4\pi^2$  d) $4\pi$

44. Ramu earns Rs. 60 on a day and spends Rs. 50 on the next day. He again earns Rs. 60 on the third day and spends Rs. 50 on the fourth day and so on. On which day he will have Rs. 200 with him before spending?

a) 14  b) 16  
c) 28  d) 29

45. A monkey is trying to reach the top of a pole which is 40 mtrs high from the ground. After ascending every 4 mtrs it slips down 2 mtrs. How many attempts the monkey will take to reach the top of the pole?
46. Radius of the circle is 4 cm. Area of the region inside the circle and outside the cyclic square ABCD is:
   a) $16(\pi-1)$  
   b) $16\pi$  
   c) $16(\pi-2)$  
   d) $16\pi-36$

47. The age of the mother today is thrice as that of her daughter. After 12 years the age of the mother will be twice that of her daughter. What is the present age of the daughter?
   a) 12 yrs  
   b) 16 yrs  
   c) 14 yrs  
   d) 18 yrs

48. A man has 5 brothers and 3 sisters and his wife has 3 brothers and 5 sisters. They all assemble in a hotel for a tea party. The cost per plate for male is Rs. 10. The cost per plate for female is Rs. 8. Find the total expenditure of tea party.
   a) Rs. 128  
   b) Rs. 144  
   c) Rs. 152  
   d) Rs. 162

49. A bag contains Rs. 125. The ratio of a rupee coin 50 paisa coin and 25 paisa coin in the ratio 3:4:5. Find the total number of all coins.
   a) 45, 60, 75  
   b) 60, 80, 100  
   c) 80, 60, 100  
   d) 30, 40, 50

50. In a mixture of 60 liter the ratio of milk and water is to be 1:2. Find the amount of water (in liters) to be further added to make the ratio 1:4.
   a) 20 ltrs  
   b) 30 ltrs  
   c) 40 ltrs  
   d) 60 ltrs
51. In a survey of 1000 persons reading newspaper in Bangalore, it was found that 800 read Deccan Herald, 300 read The Hindu, and 200 read both. How many persons do not read both?
   a) 700   b) 600
   c) 500   d) 100

52. Instead of multiplying a number of 3 and then adding 2 to it, A student divides the number by 3 and subtracts 2 and gets the answer as 3. What is the right answer that he should get?
   a) 47   b) 15
   c) 20   d) 24

53. An insect which is 8 m away from the foot of a lamp post 6 m tall, towards it. After moving through a certain distance, its distance from the top of the lamp post is equal to the distance it has moved. How far is the insect away from the foot of the lamp post?
   a) 1.25 mtrs.   b) 1.50 mtrs.
   c) 1.75 mtrs.   d) 6.25 mtrs.

54. A hemispherical bowl of internal radius 9 cm contains liquid. This liquid is to be filled into cylindrical shaped small bottles of diameter 3 cm and height 4 cm. How many bottles are required to empty the bowl?
   a) 62   b) 59
   c) 56   d) 54

55. From a point on the ground at distance of 20 ft from the foot of the tree, the angle of elevation of the top of the tree is $45^0$. Then the height of the tree is:
   a) 5 ft.   b) 10 ft.
   c) 40 ft.   d) 20 ft.
56. Rashmi bought some books for Rs. 60. Had she bought 5 books more for the same amount each book would have cost her 1 rupee less. Find the number of books bought by Rashmi.
   a) 20  b) 15  c) 10  d) 6

57. A train 100 mtr long passes through a telephone pole in 10 seconds. The speed of the train is:
   a) 25 kmphr  b) 36 kmphr  c) 32 kmphr  d) 54 kmphr

58. The angle between the minute hand and the hour hand at 3.30 is
   a) 90°  b) 75°  c) 60°  d) 30°

59. In an examination it is required to get 40 per cent of the aggregate marks and is declared failed by 4 per cent marks. What are the maximum aggregate marks a student can get?
   a) 700  b) 730  c) 745  d) 724

60. On Independence day, chocolates were equally distributed among 360 children in a school. Actually on that day 120 children were absent. Hence on account of this each child got 5 chocolates extra. How many chocolates each student got on that day?
   a) 8  b) 10  c) 12  d) 15
RESPONSE SHEET OF PROBLEM SOLVING ABILITY TEST IN MATHEMATICS

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PROBLEM SOLVING ABILITY TEST IN MATHEMATICS

Time: 45 minutes

Please furnish the following information

1) Name of the student : 

2) Age : 

3) Class : 

4) Gender : Male / Female 

5) Name of the College : 

6) Type of the College : Govt / Private 

7) Locality : Urban / Rural 

8) Date : 

Instructions to Students:

a) This test contains 30 items.

b) Read each item carefully.

c) Determine the correct answer from out of the four choices given under each item.

d) You have to write the alphabet of correct serial answer in the response sheet provided separately.

e) Do all the rough work at the end of the test paper where the blank sheets are given.

f) Please do not make any mark in this tool. This is reusable.

g) Do not turn the page until you are told do so.

Model Example:

A boy made a paper square of side 1.5 m. He has 225 Sq. meters of paper with him. How many such squares does he get?

a) 10 

b) 100 

c) 1000 

d) 10000 

The above item answer is the serial is (b). So tick (√) in the ‘b’ column as the answer in answer Sheet. You have to solve all the items similarly.
1. When a number is divided by 342, the remainder will be 47. When the same number is divided by 19, what would be the remainder?
   a) 9  b) 10  c) 15  d) 25

2. If Shailaja and Nirmala shared Rs. 1100 in the ratio of 5:17, calculate how much did Shailaja get?
   a) Rs. 100  b) Rs. 250  c) Rs. 300  d) Rs. 350

3. The monthly salary of A, B and C are in the ratio of 2:3:5. If B’s salary is Rs. 400 more than ‘A’. Find the salary of ‘C’?
   a) Rs. 800  b) Rs. 1200  c) Rs. 2000  d) Rs. 2400

4. Rajesh does a work in 10 days and Krishna does the same work in 15 days. How many days do they take to complete the work. If both of them work together?
   a) 5 days  b) 6 days  c) 8 days  d) 9 days

5. Rs. 49 were divided among 150 children. Each girl got 50 paisa and boy 25 paisa. How many boys were there?
   a) 100  b) 102  c) 104  d) 105
6. Two cats Billy and Kitty together catch sixty mice. If Billy catches three mice of every two caught by Kitty, calculate the number of mice caught by Kitty.
   a) 24  b) 30  c) 36  d) 40

7. A person walks 10 kilometers towards south, taking first left turn and walks 12 kilometers; again turning second left and walks 15 kilometers. Calculate how far is the from the starting point?
   a) 16 kms  b) 15 kms  c) 14 kms  d) 13 kms

8. A bag contains 400 coins, consisting of 50 paise, 10 paise, 5 paise coins respectively. The total value of the coins of each kind is same. Find the number of 5 paise coins.
   a) 200  b) 250  c) 150  d) 350

9. The length of a room is 5.5, meter and width is 3.75 meter. Find the cost of paving the floor by slabs at the rate of Rs. 800 per sq. meters.
   a) Rs. 15000  b) Rs. 15550  c) Rs. 15600  d) Rs. 16500

10. Eight persons complete a work in 6 days, working for 10 hours a day. Find the number of days required to complete the work, if they work for 8 hours a day.
    a) 6 days  b) 7 days  c) 10 days  d) 12 days

11. Sowmya takes 6 days less than the number of days taken by Bhagya to complete a piece of work. If both Sowmya and Bhagya together can complete the same work in 4 days. In how many days will Bhagya complete the work?
12. Ganesh purchased certain number of Laddus. He gave half of them to the first friend, half of the remaining to the second friend and so on. He and his fifth friend eat 33 Laddus. How many Laddus did Ganesh purchase?

a) 510  
b) 515  
c) 528  
d) 540

13. Sanganabasava rides a bicycle from his home to the Ashram. He covers 125 metres at the end of first minute, during the second minutes he covers 135 meters, 145 meters at the end of the third minute and so on. Then he reaches the Ashram at the end of 10 minutes. Find the distance between his home and Ashram.

a) 1.7 kms  
b) 2.0 kms  
c) 2.2 kms  
d) 2.5 kms

14. Kamala is 5 times older than her sister Veena. Who is 2 years less than her brother Vijay. If Vijay is 10 years old, find the age of Kamala.

a) 5  
b) 42  
c) 40  
d) 35

15. Rama is 8 cm taller than Krishna. Hari is 12 cm shorter than Rama. If Krishna is 125 cm tall, how tall (in cm) is Hari?

a) 129  
b) 121  
c) 105  
d) 133

16. The average weight of 45 passengers on board on aircraft is 50 kg. If the weight of 5 members of crew is added, the average is reduced by half kg. What is the average weight of the crew members.

a) 49.5 kg  
b) 40 kg  
c) 45 kg  
d) 48 kg
17. A solid cone of height of 10 cm, radius of base 20 cm is melted to take spherical balls shape each of 4 cm diameter. How many such balls can be made?
   a) 25  b) 75  c) 100  d) 125

18. In a camp the provision for food was made for 42 days. After 10 days, 1300 more persons joined the camp, as a result of which the food lasted only 24 days more. How many persons originally present in the camp?
   a) 2900  b) 3100  c) 3900  d) 3375

19. Bhavana has a piece of land which is in the shape of a rhombus. She wants her daughter and son to work on the land and produce different crops. She divided the land into two equal parts. If the perimeter of the land is 400 m and one of the diagonals is 160 m. How much area each of them will get?
   a) 4400 m²  b) 9600 m²  c) 4700 m²  d) 4800 m²

20. A person travels from Bangalore to Bellary at a speed of 20 km per hour and returns at a speed of 30 km per hour. What is the average speed of both the trips?
   a) 15 kmph  b) 18 kmph  c) 24 kmph  d) 6 kmph

21. A worker is paid Rs. 100 per day for attending work. According to agreement he has to pay Rs. 50, if he absent himself for the work. In a month of 30 days he earns Rs. 2400. Find the number of days he was absent for the work.
   a) 12  b) 8  c) 6  d) 18
22. A monkey is trying to reach the top of a pole which is 40 mtrs high from the ground. After attending every 4 mtrs it slips down 2 mtrs. How many attempts the monkey will take to reach the top of the pole?
   a) 40 
   b) 36 
   c) 19 
   d) 18

23. A man has 5 brothers 3 sisters and his wife has 3 brothers and 5 sisters. They all assemble in hotel for tea party. The cost per plate for male is Rs. 10. The cost per plate for female is Rs. 8. Find the total expenditure of a tea party.
   a) Rs. 128 
   b) Rs. 144 
   c) Rs. 152 
   d) Rs. 162

24. In a survey of 1000 persons reading newspaper in Bangalore, it was found that 800 read Deccan Herald, 300 read The Hindu, and 200 read both. How many persons do not read both?
   a) 700 
   b) 600 
   c) 500 
   d) 100

25. Instead of multiplying a number of 3 and then adding 2 to it, a student divides a number by 3 and subtracts 2 and gets the answer as 3. What is the right answer that he should get?
   a) 47 
   b) 15 
   c) 20 
   d) 24

26. An insect which is 8 m away from the foot of a lamp post 6 m tall, towards it. After moving through a certain distance, its distance from the top of the lamp post is equal to the distance it has moved. How far is the insect away from the foot of the lamp post?
   a) 1.25 mtrs. 
   b) 1.50 mtrs. 
   c) 1.75 mtrs. 
   d) 6.25 mtrs.
27. A hemispherical bowl of internal radius 9 m contains a liquid. This liquid is to be filled into cylindrical shaped small bottles of diameter 3 cm and height 4 cm. How many bottles are required to empty the bowl?
   a) 62    b) 59
   c) 56    d) 54

28. Rashmi bought some books for Rs. 60. Had she bought 5 books more for the same amount each book would have cost her 1 rupee less. Find the number of books bought by Rashmi.
   a) 20    b) 15
   c) 10    d) 6

29. A train 100 mtrs long passes through telephone pole is 10 seconds. The speed of the train is.
   a) 25 km / hr    b) 36 km / hr
   c) 32 km / hr    d) 54 km / hr

30. On Independence day, chocolates were equally distributed among 360 children in a school. Actually on that day 120 children were absent. Hence on account of this each child got 5 chocolates extra. How many chocolates each student got on that day?
   a) 8    b) 10
   c) 12    d) 15
RESPONSE SHEET OF
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