Please fill up the following information:-

Student Name____________

Age___________ 1. Male____ 2. Female____

Rural/ Urban_____

Name of the School______________

General Instructions

There are hundred questions from Science, maths, Social Sciences and Languages. Kindly attempt all the questions. If there is any query than without any hesitation you may ask.
1. What is called the suicidal bag?
   (a) Mitochondria  (b) Lysosome
   (c) Centrosome  (d) Ribosomes

2. Cell organelle found only in plant is
   (a) Golgi apparatus  (b) Mitochondria
   (c) Plastids  (d) Ribosomes

3. Lysosome contains
   (a) Fat  (b) RNA
   (c) Proteins  (d) hydrolytic enzymes

4. Two bones connected to each other by
   (a) Ligament  (b) Nerves
   (c) Tendon  (d) calcium phosphate

5. Bone is an example of
   (a) Epithelial tissue  (b) connective tissue  (c) Muscular tissue  (d) Nervous tissue

6. Which of the following is a prokaryotic cell?
   (a) Spirogyra  (b) E.coli
   (c) Amoeba  (d) Rhizopus

7. Energy currency of the cell is
   (a) CTP  (b) GTP
   (c) ATP  (d) All

8. Which cell organelle is associated with protein synthesis?
   (a) Mitochondria  (b) Ribosome
   (c) Golgibodies  (d) Centrosome

9. Which cell organelle is called power house
   (a) Plastid  (b) Mitochondria
   (c) Ribosomes  (d) Golgibodies
10. Speedometer measures
   (a) Speed          (b) Average speed
   (c) Velocity       (d) Average velocity
11. SI unit of displacement
   (a) centimetre     (b) metre
   (c) Kilometre      (d) foot
12. Area under velocity time graph is equal to the
   (a) Displacement   (b) Velocity
   (c) Speed          (d) Acceleration
13. SI unit of acceleration is
   (a) m/s            (b) m/s2
   (c) cm/s           (d) cm/s2
14. S.I unit of force is
   (a) Newton         (b) Pascal
   (c) Kg wt          (d) meter /Sec.
15. Which has large inertia?
   (a) Pen             (b) Train
   (c) Car             (d) Pencil
16. Four students prepared mixtures in water by talking sugar, sand, chalk power and starch respectively, in four different test tubes. After stirring, the mixture that appeared clear and transparent was that of
   (a) starch and water (b) Chalk powder and water
   (c) sand and water  (d) sugar and water
17. You are provided with a mixture of iron filling and sulphur powder. When you add carbon-di-sulphide to the mixture, you would observe
   (a) iron particles dissolve and the solution turns black
   (b) sulphur powder dissolve and the solution turns colourless
   (c) sulphur powder dissolve and the solution turns yellow
   (d) iron particles dissolve and the solution turns grey
18. A strip of magnesium metal is burnt in the flame, it is observed that
   (a) a yellow light appears
   (b) a white dazzling light appears
   (c) magnesia start melting
   (d) lot of black smoke is produced
19. Choose a homogenous mixture out of the following
   (a) ink
   (b) milk
   (c) brass
   (d) muddy water
20. SI unit of temperature
   (a) Kelvin
   (b) Celsius
   (c) both
   (d) none
21. During summer water kept in earthen pot becomes cool due to the phenomenon of
   (a) evaporation
   (b) diffusion
   (c) osmosis
   (d) freezing
22. The physical state of water at 0°C
   (a) solid
   (b) liquid
   (c) both
   (d) none
23. Which of the following is not a matter?
   (a) air          (c) dust
   (b) cold        (d) humidity

24. Which of the following is pure substance?
   (a) Milk          (b) water
   (c) soil         (d) 24 carat Gold

25. Which of the following is not a chemical change?
   (a) Rusting of Iron (b) Photosynthesis (c) Drying Cloth
   (d) Breaking a glass beaker

26. Using a ruler a pair of compasses it is possible to construct an angle of:
   (a) 40\(^0\)          (c) 47.5\(^0\)
   (b) 35\(^0\)         (d) 37.5\(^0\)

27. An isosceles triangle has perimeter 30cm and each of equal side is 12cm. Area of triangle is:
   (a) 8\(\sqrt{15}\)cm\(^2\) (b) 7\(\sqrt{12}\)cm\(^2\)
   (c) 9\(\sqrt{15}\)cm\(^2\) (d) none

28. The total surface area of a cube is 96 cm\(^2\). The volume of the cube is
   (a) 8 cm\(^3\)          (c) 64 cm\(^3\)
   (b) 512 cm\(^3\)      (d) 27 cm\(^3\)

29. The total surface area of a hemisphere is 1848 cm\(^2\). Its volume is
   (a) 17248/3 cm\(^3\)   (b) 1232/3 cm\(^3\)
   (c) 17248 cm\(^3\)     (d) 34496/3 cm\(^3\)
30. The diameter of a sphere whose surface area is 154 cm$^2$ is
(a) $7/2$ cm  (b) 14 cm
(c) 7 cm      (d) none of these

31. The range of the data:
25, 18, 20, 22, 16, 6, 17, 15, 12, 30, 32, 10, 19, 8, 11, 20, is
(a) 10  (b) 15
(c) 18  (d) 26

32. Median of the numbers: 4, 4, 5, 7, 6, 7, 7, 12, 3 is
(a) 4  (b) 5
(c) 6  (d) 17

33. The mean of ten numbers is 55. If one number is excluded, their mean becomes 50. The excluded number is
(a) 60  (b) 70
(c) 80  (d) 100

34. In a single throw of two dice, the probability of getting a sum of 9 is
(a) 1/18  (b) 1/9
(c) 1/36  (d) 3/9

35. The probability of getting a black ball from a bag containing 5 blue, 9 black and 2 green balls is
(a) 5/16  (b) 9/16
(c) 1/8   (d) 11/16

36. A gardener plants 213444 trees in such a way that there are as many rows as there are trees in a row. The no. of trees in a row are
(a) 426  (b) 624
(c) 462  (d) 642
37. Rational no. equals to \(\sqrt{243}/867\)
   (a) 7/23       (b) 9/23
   (c) 7/19       (d) 9/17

38. Divide the no. 26244 by the smallest no. so that the quotient is a perfect cube. So the smallest no. is :
   (a) 4         (b) 16
   (c) 6         (d) 36

39. The perimeter of a triangle is 36cm. If its sides are in the ratio 1:3:2, then its largest side is
   (a) 6                (b) 12
   (c) 18               (d) none of these

40. The length of a room exceeds its breadth by 5m. If the length be increased by 5m and breadth decreased by 3m, the area remains the same. Then find length and breadth of the room.
   (a) 15m, 20m       (b) 20m, 15m
   (c) 12m, 17m       (d) 17m, 12m

41. Factorise \(x^2 - 9 - 6y - y^2\)
   (a) \((x+y-3)(x-y-3)\)   (b) \((x-y+3)(x+y+3)\)
   (c) \((x+y+3)(x-y-3)\)   (d) None of these

42. Ankur bought a computer system for Rs. 40,000. He sold it to Ram at loss of 4%. If Ram sells it for Rs. 40320 to Anuj, then the profit percent earned by Ram is:
   (a) 7%         (b) 10%
   (c) 5%         (d) 3%
43. I sold a watch to B at a gain of 10% and B sold it to C at a loss of 10%. If C paid Rs. 990 for it. Then the price paid by A is :
   (a) Rs. 900  (b) Rs. 1000
   (c) Rs. 990  (d) Rs. 950

44. The linear equation $2x + 5y = 8$ has:
   (a) two solutions  (b) a unique solution
   (c) no solution    (d) infinitely many solutions.

45. $x=2, y=1$ is a solution of the linear equation.
   (a) $2x - y = -3$  (b) $2x + y = 3$
   (c) $-2x + y = -3$  (d) $x + y = -3$

46. Three angles of a quadrilateral are $90^\circ$, $45^\circ$, $120^\circ$ the fourth angle is:
   (a) $115^\circ$  (b) $95^\circ$
   (c) $105^\circ$  (d) $85^\circ$

47. The fig. formed by joining the mid-points of the sides of a quad. is a
   (a) trapezium  (b) rhombus
   (c) parallelogram  (d) rectangle

48. An isosceles triangle has perimeter 30cm and each of equal side is 12cm . Area of triangle is:
   (a) $8\sqrt{15} \text{cm}^2$  (b) $7\sqrt{12} \text{cm}^2$
   (c) $9\sqrt{15} \text{cm}^2$  (d) none

49. The area of a trapezium is 39 cm$^2$. The distance between its parallel side is 6 cm. If one of the parallel side is 5 cm, then the other parallel side is :
   (a) 9 cm  (b) 8 cm
   (c) 7 cm  (d) 6 cm
50. PQ is a chord of a circle with centre O and radius 5 cm. If OR = 4 cm, then the length of chord PQ is equal to
   (a) 3 cm               (b) 5 cm
   (c) 6 cm               (d) 8 cm

51. What will be the area of quadrilateral ABCD if AB = 3 cm, BC = 4 cm, CD = 4 cm, DA = 5 cm, and AC = 5 cm.
   (a) 12.5 cm            (b) 15.2 cm
   (c) 18.2 cm            (d) 19.2 cm

52. On what charges was Louis XVI Guillotined?
   (a) Misgovernance      (b) Cruelty
   (c) Treason            (d) Absolute rule

53. By whom was 'social contract' written?
   (a) Voltaire           (b) Rousseau
   (c) Adam Smith         (d) Gorky

54. In the context of Russia what was 'Kullak'?
   (a) A Collective form  (b) A Russian school
   (c) Well-to-do peasants (d) Landless labourers

55. Which one of the following refers to the secret police of Russia?
   (a) Cheka              (b) Gestapo
   (c) Security police    (d) F.B.I.

56. In the context of Nazi Germany what was 'Jungvolk'?
   (a) A School for Jews  (b) A School of German
   (c) A Nazi Youth group of 14 years old
   (d) Society of adults above 20 years old

57. Strike the odd one out
   (a) Poles              (b) Gypsies
   (c) Jews               (d) Germans
58. In which one of the following groups of Hemisphere India is located?
   (a) Eastern and Western Hemisphere
   (b) Northern and Southern Hemisphere
   (c) Eastern and Northern Hemisphere
   (d) Land and Water Hemisphere

59. Which one of the following features is related to the lower course of the river?
   (a) Delta
   (b) Meander
   (c) Ox-bow Lake
   (d) Gorge

60. How many member countries are there in UN General Assembly? Select the correct alternative from the following
   (a) 142
   (b) 192
   (c) 182
   (d) 132

61. Which one of the following international organizations is responsible for maintaining peace and security among countries of the world?
   (a) General Assembly
   (b) Security council
   (c) International Court of Justice
   (d) International Monetary fund

62. When did the Constituent Assembly adopt the Constitution of India? Select the correct alternatives from the following
   (a) 26th January, 1949
   (b) 26th January, 1950
   (c) 26th November, 1949
   (d) 26th December, 1950

63. Which one of the following is not a factor of production?
   (a) Land
   (b) Labour
   (c) Capital
   (d) Purchasing power
65. Which among the following is not an item of fixed capital?
   (a) Tools  (b) Raw Materials  (c) Machines  (d) Building

66. Which one of the following activity is not associated with the primary sector?
   (a) Agriculture  (b) Forestry  (c) Education  (d) Mining

67. Which one of the following is not an activity of tertiary sector?
   (a) Transport  (b) Banking  (c) Manufacturing  (d) Tourism

68. Which one of the following is an important component of disaster preparedness?
   (a) Conducting Mock drills, training and practice  
   (b) Implementing the disaster management plan  
   (c) Setting up of Medical camps  
   (d) Activating the emergency operations

69. Which one of the following is a slow onset hazard?
   (a) Volcanic eruption  (b) Floods  (c) Landslides  (d) Drought

70. Which one of the following categories of forests is considered as the best on the basis of their utility?
   (a) Reserved forests  (b) Protected forests  
   (c) Village forests  (d) Community forests

71. Which of the following trees were promoted for building ships or railways?
   (a) Firs & Pines  (b) Bushes & Creepers  
   (c) Teak & Sal  (d) Shisham & Acacia
72. Which one of following communities is an African Community?
   (a) Gollas        (b) Kurumas
   (c) Rai kas       (d) Maasai

73. Which one of the following is related to the name of Captain Swing?
   (a) Invention of the threshing machines
   (b) Breaking the threshing machines
   (c) A mythical name for threatening the land owners
   (d) Prosperity of farm labour

74. The growing of which one of the following crops improves the soil fertility?
   (a) Potatos & Tomatoes  (b) Wheat & Rice
   (c) Turnip & Cloves     (d) Brinjal & Banana

75. Which one of the following type of forests is found in the Ganga-Bramaputra Delta?
   (a) Thorny forests     (b) Montane forests.
   (c) Mangrove forests   (d) Tropical Rain forests

76. Which of the following statements is against the democratic process of elections?
   (a) Parties and candidates should be free to contest elections
   (b) Elections must be held regularly immediately after the term is over
   (c) The right to vote should be given to the selected people only
   (d) Elections should be conducted in a free and fair manner
77. Which one of the following provisions fails to ensure fair and equal chance to compete to candidates and political parties
   (a) No party or candidate can bribe or threaten voters
   (b) No party or candidate is bound by the model code of conduct
   (c) No party or candidates can use government resources for election campaign
   (d) No body can appeal to the voters in the name of caste or religion

78. Read the passage given below and write the option that you consider the most appropriate

   The growing rate of crime among the youth today is a matter of great concern. It ranges from kidnapping, extortion and even murder. The once sensitive, caring, loving and compassionate young man immortalized by Ruskin Bond and R.K. Narayan is today a character confined to books alone. The new world has turned him into a criminal with no moral sense or ethical responsibility. The young are selfish in their thoughts, action and existence. They are like parasites; thriving on extravagant consumption of illegal material. And when this becomes an addiction, all means of self – control, morals and ethics take a beating at individual and social spheres. There can be various reasons as to why the youth are going wrong. Increasing competition leads to stress and cutthroat competitions. Stress related problems like suicides are on the rise. The rush to succeed takes them astray. Nuclear families have made youth selfish, self centered and intolerant. The gap between the rich and the poor has
led to frustration in the lower classes. Media popularizes criminals like Harshad Mehta, who shot to quick fame and fortune. This allures the youth. Above all, the snags in the Indian legal system, corruption at all levels, loss of values has all worsened the situation.

A. The reason for alarm in the present day world is………..
   (a) increase in different forms of crime
   (b) increase in number of crime
   (c) increasing sin in cities
   (d) irresponsible citizens

B. The words ‘confined to books alone’ implies…………………
   (a) the books are full of good characters
   (b) the world is full of good characters
   (c) good characters only in books
   (d) books should have good characters

C. The main reason for suicides is……………………
   (a) increasing competition
   (b) increasing crime
   (c) failing exams
   (d) selfish people

D. The breakup of Joint family system has made people……
   (a) selfish                   (b) criminals
   (c) happy                    (d) sad

E. The antonym of ‘worsened’ is………………
   (a) deteriorated            (b) improved
   (c) gone up                 (d) recovered
79. Rearrange the following words and phrases to form meaningful sentences.
(a) one/ length/ it/ up/ measures/ to/ metre/ approximately/ in
(b) eucalyptus/ animals/ are/ diet/ of/ solitary/ whose/ gliders/ consists/ primarily/ greater/ leaves
(c) are/ in/ rest/ the/ during/ gliders/ the/ they/ tall trees/ in/ nocturnal/ and/ day/ hollows

80. Complete the following passage by filling in the blanks with appropriate form of verbs given in brackets, By choosing one right option.
The sun (a)______(shine) during the day. It (b) ______(not shine) at night. The moon and the stars(c) ______(shine) at night. They (d) _____(not shine) when there are clouds. It (e)______ (go) behind the clouds. The stars also (f) ______(not twinkle) when there are clouds. The clouds (g) ______(cover) the moon and the stars.

a. (i) shine  (ii) shone  (iii) shines  (iv) had shone
b. (i) do not shine (ii) does not shine  (iii) did not shine (iv) shine
c. (i) shone  (ii) shine  (iii) shines  (iv) had shone
d. (i) do not shine (ii)did not shine  (iii) does not shine  (iv) none of these
e. (i) is going (ii) go  (iii) goes  (iv) none of these
f. (i) do not twinkle  (ii) does not twinkle  
   (iii) did not twinkle  (iv) none of these 

g. (i) covered  (ii) cover  
   (iii) covers  (iv) were covering

81. Choose the most appropriate option from the ones given below to complete the following passage. Write the answer in your answer sheet against the correct blank number. 
Since the beginning of human existence, people (a) ............ over the world have expressed their emotions and ideas (b) .................. the medium of dance. The word ‘Folk’ means people. Folk dances express the moods and feelings of (c) .... common people. Different regions (d) ........ India have their own dances. (e) ............... dance is accompanied by music and songs of the region to (f) ............ it belongs.

(a) (i) all  (ii) whole  
   (iii) much  (iv) more.
(b) (i) in  (ii) into  
   (iii) through  (iv) of.
(c) (i) the  (ii) a  
   (iii) an  (iv) some.
(d) (i) at  (ii) of  
   (iii) for  (iv) from.
(e) (i) each  (ii) all  
   (iii) whole  (iv) many.
(f) (i) what  (ii) which  
   (iii) who  (iv) whose
82. Complete the sentence by choosing the correct option.

(a) It is said he was a man, .................. to have the vision of an angle and courage of a lion.
   (i) who appeared (ii) he appeared
   (iii) that appears (iv) and appears

(b) After the discovery of the abandoned getaway vehicle, ............. believed to be hiding in the nearby Riverside forest region.
   (i) that the bank robber is
   (ii) the bank robber who
   (iii) the bank robber is
   (iv) the bank robber who is

(c) A gifted scientist, Newton................... some of the most fundamental laws in the history of science.
   (i) keeps discovering
   (ii) who discovered
   (iii) the discoverer of
   (iv) discovered

(d) George Washington once said that ................. have virtue enough to withstand the highest bidder.
   (i) few men
   (ii) the few men
   (iii) few are the men
   (iv) the men are few
प्रश्न निर्देशानुसार उत्तर दीजिए—

83. हम सांस्कृतिक आभास का बात कितनी ही करने परस्परों का अवमूल्यन हुआ है, आधारों का अभाव हुआ है। कठिना सच हो यह है कि हम बीपीडी क्षेत्र स्वीकार कर रहे हैं, परिचय के सांस्कृतिक उपनिवेश बन रहे हैं। हमारी नई संस्कृति अनुकणन की संस्कृति है। हम आधुनिकता के झूठे प्रतिमान अपनाते जा रहे हैं। प्रतिबंध की अंधी प्रतिस्पर्धा में जो अपना है उसे खोकर छठ्ठ आधुनिकता की गिरफ्त में आते जा रहे हैं। संस्कृति की नियंत्रक शक्तियों के क्षेत्र हो जाने के कारण हम विभ्रमित हो रहे हैं।

1. उपभोक्ताद्वारा संस्कृति ने हमारी परम्पराओं और आधारों को किस प्रकार प्रभावित किया है?
   (क) उनका विकास हुआ है।
   (ख) उनका अवमूल्यन तथा अक्षरण हुआ है।
   (ग) उनमें परिवर्तन आया है।
   (घ) ये यथार्थत हैं।

2. बीपीडी क्षेत्र स्वीकारने का आशय है—
   (क) मानसिक गुलामी।
   (ख) दास बन जाना।
   (ग) हम पश्चिमी संस्कृति को अपनाते जा रहे हैं।
   (घ) अपनी संस्कृति को बनाना।

3. हमारी नई संस्कृति कैसी है?
   (क) अनुक्षेत्र की संस्कृति है।
   (ख) मूल्यों की संस्कृति है।
   (ग) सर्वाधिक संस्कृति है।
   (घ) समृद्धाश्वली संस्कृति है।

4. हम विभ्रमित क्यों हो रहे हैं?
   (क) आधुनिक होने के कारण।
   (ख) अंधी प्रतिस्पर्धा के कारण।
   (ग) बीपीडी क्षेत्र के कारण।
   (घ) संस्कृति की नियंत्रक शक्तियों के क्षेत्र हो जाने के कारण।
5. ‘अस्मिता’ शब्द का अर्थ है—

(क) आदर।
(ख) क्रियान्वय।
(ग) अर्थत्त।
(घ) सम्मान।

84. ‘अपने आप से लड़ना’ का आशय है—

(क) अपने परिवार से लड़ना।
(ख) अपने समाज से लड़ना।
(ग) निराश हो जाना।
(घ) अपनी कमियों के विरुद्ध संघर्ष करना।

85. ‘कुसूम’ शब्द का पर्यायवाची शब्द है—

(क) कमल।
(ख) पंकज।
(ग) प्रसूत।
(घ) अरविन्द।

86. रेखांकित को सफेद करो।

(क) बच्चा, उचित भाववाचक संज्ञा में बदलिए।
(ख) भारत की राजधानी दिल्ली है। रेखांकित शब्द का संज्ञा—मेद लिखिए।
(ग) विद्वान, कवि का स्त्रीलिंग रूप लिखिए।
(घ) गंगा हिमालय से निकलती है। रेखांकित शब्द में कारक स्पष्ट करें।

87. रेखांकित सर्वनाम का प्रकार बताइए—

(क) मैं अपना काम स्वयं करता हूँ।
(ख) जैसा करोगे, वैसा भरोगे।
(ग) दरवाज़े पर कोई खड़ा है।
(घ) कल तुम किससे बातें कर रहे थे?
88. निम्नलिखित समस्त पदों का विश्राम कर समास भेद लिखिए—

(क) लंबोदर
(ख) देश—विदेश
(ग) यथामति
(घ) नवराजा

89. निम्नलिखित में से विकारी शब्द नहीं होता है।

(क) क्रिया
(ख) सर्वनाम
(ग) विशेषण
(घ) क्रिया विशेषण

90. सारांश आज बनाए सत्याग्रह जाएगा। रेखांकित को कहेंगे।

(क) सर्वनाम
(ख) शब्द
(ग) पद
(घ) पदबंध

91. 'मौली ने एक सूंदर मजबूत लाल कलम खरीदी। रेखांकित में पदबंध का भेद है?

(क) संज्ञा
(ख) विशेषण
(ग) क्रिया विशेषण
(घ) सर्वनाम

92. मैं दसवीं कक्षा में पढ़ता हूं। रेखांकित पद का परिचय है।

(क) जातिवाचक संज्ञा, एकवचन, स्त्रीलिंग, प्रथम पुरुष, संबंध कारक
(ख) जातिवाचक सर्वनाम, एकवचन, पुलिंग, अन्य पुरुष, संबंध कारक
(ग) पुरुषवाचक सर्वनाम, एकवचन, पुलिंग, उत्तम पुरुष, कर्ता कारक
(घ) मिजजावाचक सर्वनाम, एकवचन, पुलिंग, मध्यम पुरुष, कर्ता कारक

93. ‘जैसा करोगे तैसा पाओगे।’ रचना के आधार पर वाक्य का भेद है।

(क) इच्छावाचक
(ख) सरल वाक्य
(ग) मिश्रित वाक्य
(घ) संयुक्त वाक्य
94. ‘गंगोर्म’ का संधि विच्छेद है।
   (क) गंगा + उर्मि
   (ख) गंगो + मि
   (ग) गंगा + उर्मि
   (घ) गंग + ओर्मि

95. विद्यालय के पठित?
   (क) नर:
   (ख) बालक:
   (ग) पश्चात:
   (घ) छात्र:

96. यौगिकावकाश कि कृत्व अग्निचन?
   (क) नैनीताल:
   (ख) मसूरी:
   (ग) शिमला:
   (घ) उपरोक्त सर्वाणि

97. तुल्य: कूल: भवति?
   (क) अभिन्नस्य
   (ख) अधनस्य
   (ग) अविद्यस्य
   (घ) धर्मस्य

98. ‘अपरि’ इत्यस्य कि विलोमपदम् अनुच्छेदे प्रयुक्तम्?
   (क) अध:
   (ख) अद्य
   (ग) नीचे:
   (घ) समीपे

99. ‘किमान्यं भवतादीपकर्म प्रकाश’’’’’’’’’’’’’’’’’’’’” इति वाक्ये ‘भवता’ इति सर्वनामपदं
   कस्मै प्रयुक्तम्?
   (क) युक्ततालय
   (ख) दीपकाय
   (ग) चन्द्रमसे
   (घ) भक्ताय

100. ‘यदृशी’ इति पदर्थ किम् विशेषपदम् अनुच्छेदे प्रयुक्तम्?
    (क) मनोवृति:
    (ख) भावना
    (ग) वस्तु
    (घ) भावना: