KNEUS SCHOLASTIC APTITUDE TEST (KSAT - II)

Syllabus

and

Sample Questions

With a Model Question Paper

CLASS - VIII

KNEUS SCHOLASTIC APTITUDE TEST

Students kindly go through the syllabus given and prepare accordingly.

The questions given in this booklet are sample questions. These questions need not appear in the test.

The answer key is given at the end

Both Part A and B are to be attempted compulsorily

SYLLABUS OUTLINE
PART - A Objective Type (General Studies)

- English
- Mathematics
- Science - Physics, Chemistry, Biology
- Social Studies
- General Knowledge

PART - B (Subjective Type)

- Essay Writing

PART A
ENGLISH

SYLLABUS

1. Comprehension
2. Determiners
3. Preposition
4. Form of the Verb (Tense)
5. Conjunction
6. Transitive, Intransitive and Linking Verb
7. Infinitive Gerund and Participle
8. Adverb clause, Noun clause, Adjective clause
9. Active and Passive Voice
10. Modal

Read the passage carefully.

Early rising leads to health and happiness. The man who rises late can have little rest in the course of the day. Anyone who lies in the bed late is compelled to work till a late hour in the evening. He has to go without the evening exercise which is so necessary for his health. Inspite of all his efforts his work will not produce as good results as that of the early riser. The reason for this is that he cannot take advantage of the refreshing hours of the morning. Some people say that the quite hours of midnight is the best time for working. Several great thinkers say that they can write best only when they burn the mid night oil. Yet it is true to say that a few men have a clear brain

at mid night when the body needs rest and sleep. Those who work at that time soon ruin their health. Bad health must in the long run, have a bad effect on the quality of their work.

Choose the correct option to complete the sentence.

1. An early riser…………………
   (a) has bad health
   (b) remains unhappy through out the day.
   (c) has good health.
   (d) Feels feverish throughout the day.

2. Anyone who gets up late in the morning :
   (a) has to work till late hours in the evening.
   (b) Can finish his work in time.
   (c) Remain happy throughout the day.
   (d) Can do his work leisurely during the day.

3. Morning hours are :
   (a) dull
   (b) tiresome
   (c) refreshing
   (d) feverish

4. Mid night is the best time for :
   (a) working
   (b) walking
   (c) sleeping
   (d) stealing

5. Those who work at mid night :
   (a) have long life.
   (b) remain healthy and strong.
   (c) Get a lot of time for sleeping
   (d) Ruin their health.

Give the antonyms :

6. Ruin
   (a) constrict
   (b) constrain
   (c) construct
   (d) constitute

7. Several
   (a) decrease
   (b) little
   (c) a few
   (d) least

Give the synonyms :

8. Refreshing
   (a) Producing
   (b) Surprising
   (c) Encouraging
   (d) Pleasant

9. Compel
   (a) to control
   (b) to order
   (c) to force
   (d) to pressure

Fill in the blanks with correct determines :

10. She bought a gift for…………………child.

    (a) few   (b) some

    (c) every   (d) any

11. I believe he has…………………influence over her.

    (a) much   (b) any

    (c) some   (d) many

12. There is no …………………rice left.

    (a) any   (b) few

    (c) some   (d) much

13. …………………person found violating curfew order will be immediately arrested.

    (a) Few   (b) Some

    (c) Any   (d) All

14. There is a wonderful view from…………………balcony.

    (a) these   (b) those

    (c) this   (d) there

15. I found …………………of the plays interesting.

    (a) each   (b) either

    (c) little   (d) neither

16. There is so…………………work to finish that I don't know which to begin.

    (a) some   (b) few

    (c) many   (d) much

17. I moved into my new house…………………weeks back

    (a) much   (b) any

    (c) a few   (d) little

18. Don't ask me for any money. I have already spent…………………I had.

    (a) a few   (b) little

    (c) many   (d) the little

19. …………………member was given the instructions.

    (a) Any   (b) Some

    (c) Each   (d) First

Write the preposition to complete the sentences :

20. Lend me your book…………………a few days.

    (a) within   (b) by

    (c) during   (d) for

21. They came back. …………………a month.

    (a) for   (b) throughout

    (c) within   (d) during

22. The boy is standing…………………the wall.

    (a) beside   (b) under

    (c) among   (d) along

23. My aunt came…………………the Rajdhani Express.
   (a) on   (b) for
   (c) upon   (d) by
24. …………………working for his boss, he does all house hold chores.
   (a) along   (b) beside
   (c) over   (d) besides
25. She came…………………her room.
   (a) to   (b) in
   (c) into   (d) on
26. The horse jumped…………………the fence.
   (a) below   (b) over
   (c) above   (d) on
27. Keep your books…………………the table.
   (a) in   (b) upon
   (c) on   (d) into
28. The injured person died…………………no time.
   (a) in   (b) at
   (c) on   (d) before
29. He had been working…………………yesterday.
   (a) For   (b) during
   (c) throughout   (d) since

Fill in the blank with the correct form of the verb.

30. Madhu and Anu…………………for two hours.
   (a) was shopping   (b) have been shopping
   (c) were shopping   (d) has been shopping
31. When you…………………to New Delhi, Pay us a visit.
   (a) came   (b) come
   (c) comers   (d) have come
32. The thief…………………escaped from the sight.
   (a) were   (b) had
   (c) has   (d) have
33. We…………………to Bangalore next week.
   (a) has been going   (b) was going
   (c) are going   (d) were going
34. Our school…………………for winter break on 25th December.
   (a) closes   (b) closed
   (c) in closing   (d) as closing
35. I am hopeful that one day India……………a great country.
   (a) was   (b) is
   (c) will be   (d) were
36. The captain was sorry that his team…………………the match.

| (a) has been losing | (b) loses |
| (c) lost | (d) was losing |

37. He talks as if he…………………a great scholar.

| (a) in | (b) were |
| (c) will be | (d) can |

38. I shall reach the station by the time the train…………………

| (a) reached | (b) will be reaching |
| (c) reach | (d) reaches |

39. Her father…………………much money before he retired.

| (a) has saved | (b) saved |
| (c) had saved | (d) had been saving |

Use an appropriate conjunction to fill the blanks.

40. Mend your habit…………………you will repent.

| (a) as if | (b) so that |
| (c) otherwise | (d) that |

41. She appears…………………she were a film star.

| (a) yet | (b) that |
| (c) even if | (d) as if |

42. I help him…………………he is my friend.

| (a) even though | (b) that |
| (c) because | (d) as |

43. He saved some money…………………he might use it in Future.

| (a) because | (b) yet |
| (c) so | (d) so that |

44. I offered to help her…………………she refused my help.

| (a) for | (b) but |
| (c) yet | (d) that |

45. I must try hard…………………there is heavy competition.

| (a) as if | (b) even though |
| (c) for | (d) even |

46. He is a good servant…………………he has greed for food.

| (a) but | (b) where as |
| (c) only | (d) for |

47. You are intelligent……………...you have to work hard.

| (a) yet | (b) eve though |
| (c) but | (d) still |

48. She is neither a teacher…………………a typist.

| (a) else | (b) still |
| (c) nor | (d) yet |

Mention which form of the verb is used transitive, intransitive verb or a linking verb.

49. He spoke the truth.
    (a) transitive
    (b) intransitive
    (c) linking verb
    (d) None of these

50. He went mad.
    (a) transitive
    (b) linking verb
    (c) Intransitive
    (d) None of these

51. The dog jumped.
    (a) Linking verb
    (b) transitive verb
    (c) intransitive verb
    (d) None of these

52. The Rose looks beautiful.
    (a) Intransitive verb
    (b) Linking verb
    (c) Transitive verb
    (d) None of these

53. What kind of a man is the new manager of the bank ?
    (a) Linking verb
    (b) Transitive
    (c) Intransitive verb
    (d) None of these

Read the sentences carefully and find out what is used; Infinitive, Gerund or Participle.

54. She heard her baby weep.
    (a) Infinitive
    (b) Gerund
    (c) Participle
    (d) None of these

55. I have heard this.
    (a) Participle
    (b) Infinitive
    (c) Gerund
    (d) None of these

56. I saw a flying bird.
    (a) Gerund
    (b) Infinitive
    (c) Participle
    (d) None of these

57. Children are fond of Playing.
    (a) Participle
    (b) Gerund
    (c) Infinitive
    (d) None of these

58. Having heard the lecture, we returned home.
    (a) Infinitive
    (b) Gerund
    (c) Participle
    (d) None of these

Choose the right kind of Adverb Clauses used in the sentences.

59. Where there is will, there is a way.
    (a) Adverb clauses of condition
    (b) Adverb clause of reason
    (c) Adverb clause of place
    (d) None of these

60. Though she is clever, she is not proud.
    (a) Adverb clause of reason
    (b) Adverb clause of Place
    (c) Adverb clause of condition
    (d) None of these

61. I felt very happy when I saw Krishna.
    (a) Adverb of clause of condition
    (b) Adverb clause of reason
    (c) Adverb clause of place
    (d) None of these
62. You must do this whether you like it or not
    (a) Adverb clause of reason.
    (b) Adverb clause of condition
    (c) Advert clause of place
    (d) None of these
63. I am Glad that she has got promotion.
    (a) Adverb clause of reason
    (b) Adverb clause of place
    (c) Adverb clause of condition
    (d) None of these

<u>Fill in the blanks with Passive form of the verbs :</u>
64. A map……………….by you (draw).
    (a) drew
    (b) were drawn
    (c) was drawn
    (d) None of these
65. You………………by me. (help)
    (a) was helped
    (b) will be helped
    (c) has been helped
    (d) None of these
66. The house……………….by the mother. (manager)
    (a) are managed
    (b) had managed
    (c) is managed
    (d) will have been managed
67. The beggar……………….at by him. (laugh)
    (a) will be laughed
    (b) is laughed
    (c) laughed
    (d) was laughed
68. A guest……………….by us today. (expect)
    (a) will have expected
    (b) was expected
    (c) is being expected
    (d) were expected
69. The patient……………….to hospital tomorrow. (take)
    (a) was being taken
    (b) is taken
    (c) will be taken
    (d) taken
70. The sums……………….by you (solve).
    (a) will have been solved
    (b) was solved
    (c) is being solved
    (d) has been solved
71. The cricket match……………….by him. (play)
    (a) had played
    (b) were played
    (c) played
    (d) will have been played
72. Toys……………….by children (like).
    (a) is liked
    (b) had been liked
    (c) will have been liked
    (d) are liked
73. You……………….to get up early in the morning (advise).
    (a) is advised
    (b) Shall have been advised
    (c) have advised
    (d) are advised

[8]

Complete the blanks in the following sentences with appropriate modal verbs :

74. ………………I call John just now for he is coming tomorrow to visit me.
    (a) must   (b) need
    (c) should   (d) ought to

75. She………………submit the assignment today itself.
    (a) need   (b) would
    (c) must   (d) could

76. I………………like to show you around when you visit.
    (a) might   (b) would
    (c) should   (d) could

77. She………………visit her grand mother next weekend :
    (a) could   (b) should
    (c) might   (d) need

78. Jyoti asked me if I………………like to come to the party too.
    (a) could   (b) would
    (c) might   (d) will

79. You………………not speak to me like that ever again.
    (a) must   (b) should
    (c) dare   (d) ought

80. I know I……………… tell the truth, but I'm afraid.
    (a) dare   (b) should
    (c) need   (d) ought

ANSWER - KEY

1.	c	2.	a	3.	c	4.	c	5.	d	6.	c	7.	c
8.	d	9.	c	10.	c	11.	c	12.	c	13.	c	14.	c
15.	d	16.	d	17.	c	18.	d	19.	c	20.	d	21.	c
22.	d	23.	d	24.	d	25.	c	26.	b	27.	c	28.	a
29.	d	30.	b	31.	b	32.	b	33.	c	34.	a	35.	c
36.	d	37.	b	38.	d	39.	c	40.	c	41.	d	42.	c
43.	d	44.	b	45.	c	46.	c	47.	d	48.	c	49.	a
50.	b	51.	c	52.	d	53.	d	54.	a	55.	d	56.	c
57.	b	58.	c	59.	c	60.	d	61.	d	62.	b	63.	a
64.	c	65.	b	66.	c	67.	d	68.	c	69.	c	70.	d
71.	d	72.	d	73.	d	74.	c	75.	c	76.	b	77.	c
78.	b	79.	b	80.	b								

MATHEMATICS

SYLLABUS

1. NUMBER SYSTEM

   Fundamental operation on natural numbers, whole numbers and integers, rational numbers. LCM and HCF, fractions and decimals, Power and roots.

2. ARITHMATIC

   Ratio and proportion, percentage and profit and loss, speed and distance, work and time.

3. ALGEBRA

   Fundamental operation on algebraic expression, simplification and simultaneous linear equations.

4. GEOMETRY

   Lines and angles, triangles squares, rectangle, parallelograms and circles

5. MENSURATION

   Area and perimeter of triangle, squares, rectangles, parallelogram and rhombus Surface area and volume of cubes and cuboids

NUMBER SYSTEM

1. $3.\overline{25}$ is equal to

    (a) $\dfrac{320}{99}$

    (b) $\dfrac{321}{99}$

    (c) $\dfrac{322}{99}$

    (d) $\dfrac{323}{99}$

2. The product of $\sqrt{2}$ and $\sqrt[3]{5}$ is

    (a) $\sqrt[6]{375}$

    (b) $\sqrt[6]{200}$

    (c) $\sqrt[6]{225}$

    (d) $\sqrt[6]{175}$

3. Simplified value of $\dfrac{3+\sqrt{5}}{3-\sqrt{5}}+\dfrac{3-\sqrt{5}}{3+\sqrt{5}}$ is;

    (a) 5

    (b) 7

    (c) $\sqrt{5}$

    (d) $2\sqrt{5}$

4. The successor of lowest positive integer is

    (a) 1

    (b) 2

    (c) 3

    (d) 4

5. If $3^x = 1$; the value of x is

    (a) 0

    (b) 1

    (c) 3

    (d) none of these

6. The value of $|-3| + |-10|$ is

    (a) 7   (b) -7
    (c) 13   (d) -13

7. $\sqrt[3]{-125}$ is equal to

    (a) -5   (b) 5
    (c) $5\sqrt{5}$ (d) $-5\sqrt{5}$

8. If HCF and LCM of the given numbers is 4 and 25 then product of the numbers is

    (a) 50   (b) 25
    (c) 50   (d) 100

9. If 60 % of $\dfrac{3}{5}$ of a number is 36, then number is

    (a) 80   (b) 100
    (c) 75   (d) 90

10. When 700 is divided into two parts such that 40% of one part exceeds 60% of the other part by 80. The greater part is;

    (a) 700   (b) 600
    (c) 500   (d) 400

11. The average of 15 numbers is 18. The average of first 8 is 19 and that last 8 is 17, then the 8th number is

    (a) 15   (b) 16
    (c) 18   (d) 20

12. Three numbers are in the ratio 1: 2: 3 and their HCF is 12. The number is

    (a) 4, 8, 12   (b) 5, 10, 15
    (c) 10, 20, 30   (d) 12, 24, 36

13. The value of $\dfrac{(2.39)^2 - (1.61)^2}{(2.39 - 1.61)}$ is

    (a) 2   (b) 4
    (c) 6   (d) 3

14. If $\dfrac{4}{5}$ of an estate be worth Rs 16800, then the value of $\dfrac{3}{7}$ of the estate is Rs.

    (a) 9000   (b) 21000
    (c) 7200   (d) 90000

15. The difference between a number and its three fifth is 50. What is the number?

    (a) 25   (b) 100
    (c) 125   (d) 50

ALGEBRA

16. If $\dfrac{1}{x} + \dfrac{1}{y} = \dfrac{1}{2z}$ then z is equal to

(a) $\dfrac{x+y}{2xy}$

(b) $\dfrac{xy}{2(x+y)}$

(c) $\dfrac{xy}{x+y}$

(d) $\dfrac{x+y}{xy}$

17. If x = 3 and y = 4 then $x^y - y^x$ is

(a) 17
(b) 27
(c) 32
(d) 16

18. If $2^{2x-3} = 32$, then the value of x is

(a) 6
(b) 4
(c) 3
(d) 2

19. If x − y = 2 and x y = 24, then $x^2 + y^2$ is

(a) 50
(b) 52
(c) 48
(d) 30

20. If x + y = 10 and x y = 24, then x − y is

(a) 4
(b) 2
(c) 5
(d) 3

21. If x − 30 % of x = 35, then the value of x is

(a) 40
(b) 28
(c) 50
(d) 42

22. If twice of a number increased by 9 equals to 17. Then the number is

(a) 8
(b) 4
(c) 6
(d) 13

23. The sum of two numbers is 20 and their product is 40. The sum of their reciprocals is

(a) 1/10
(b) 1/2
(c) 2
(d) 4

24. If x < -1 then x²

(a) = 1
(b) < 1
(c) > 1
(d) none of these

25. If $9^x = 27$ then x is equal to

(a) 1/2
(b) 3/2
(c) 3
(d) 2/3

26. The degree of polynomial $x^7 y^1 + x^5 y^3 + x^4 y^5$ is

(a) 8
(b) 7
(c) 9
(d) 6

27. If $2m + \dfrac{1}{2m} = 4$ then the value of $m^2 + \dfrac{1}{16m^2}$ is

(a) $\dfrac{3}{2}$

(b) $\dfrac{1}{2}$

(c) $\dfrac{5}{2}$

(d) $\dfrac{7}{2}$

28. If $x + y = 2$ and $\dfrac{1}{x} + \dfrac{1}{y} = 2$ then the value of $x^3 + y^3$ is

(a) 1

(b) 4

(c) 3

(d) 2

29. Twelve years hence a man will be four times as he was 12 years ago, then his present age is

(a) 25 years

(b) 20 years

(c) 28 years

(d) 30 years

30. If $x + \dfrac{1}{x} = 2$, then $x^2 + \dfrac{1}{x^2}$ is equal to

(a) 2

(b) 0

(c) 4

(d) 6

ARITHMATIC

31. If A : B = 3 :4 and B : C = 5 : 6 then A and C is

(a) 5:9

(b) 3:4

(c) 1:2

(d) 5:8

32. If the ratio of boys and girls in the class is 3: 5 and girls are 6 more than boys find the number of total student in the class.

(a) 22

(b) 24

(c) 9

(d) 15

33. By selling an article of Rs 570 Aman loses 5%. At what price must he sell it to gain 5 %?

(a) Rs. 630

(b) Rs. 650

(c) Rs. 580

(d) Rs. 620

34. 90 km / hr is same as

(a) 50m/ sec

(b) 25m/sec

(c) 25m/min

(d) 50m / min

35. The milk and water ratio in 16 litre mixture is 5 : 3 then amount of milk is

(a) 2 litres

(b) 10 litres

(c) 6 litres

(d) 8 litres

36. A train running at a speed of 90 km / hr takes 5 seconds to pass a certain point. Then the length of the train is

(a) 120m   (b) 125 m
(c) 180 m   (d) 450 m

37. $10\frac{2}{3}$ % of 1500 is

(a) 220   (b) 200
(c) 180   (d) 160

38. The simple interest on Rs 10000 is $2\frac{1}{2}$ years at 4 % per annum is Rs.

(a) 1000   (b) 8000
(c) 1200   (d) 1500

39. A shopkeeper purchases 11 pens for Rs. 10 and sells them at the rate of 10 for Rs. 11, then the profit is

(a) 18%   (b) 19%
(c) 20%   (d) 21%

40. If the cost price of 8 articles is same as selling price of 10 articles, then the lost percentage is

(a) 12%   (b) 15%
(c) 20%   (d) none of these

41. The average salary of 30 workers in a factory is Rs 5000 per month. If the salary of the manager is included. The average salary comes out to be Rs 5500. The salary of the manager is Rs.

(a) 20, 500   (b) 20, 000
(c) 15000   (d) 22500

42. A can do a job in 12 days and B can do the same job in 6 days. In how many days they can complete the job?

(a) 4 days   (b) 6 days
(c) 5 days   (d) 2.5 days

GEOMETRY

43. The angle subtended at a point is equal to

(a) 0°   (b) 90°
(c) 180°   (d) 360°

44. The supplement of the complement of the one third of a right angle is

(a) 140°   (b) 70°
(c) 60°   (d) 120°

45. The angle which is twice its supplement is

(a) 30°   (b) 90°
(c) 60°   (d) 120°

46. The measure of the angle between the internal and external bisectors of an angle is

    (a) 60°   (b) 70°
    (c) 80°   (d) 90°

47. The sum of the adjacent angles in the parallelogram is

    (a) 90°   (b) 60°
    (c) 180°   (d) 360°

48. If the diagonals of a rhombus are 18 cm and 24 cm, then its side is

    (a) 15 cm   (b) 12 cm
    (c) 18 cm   (d) 19 cm

49. The diagonals of a rhombus bisect each other at

    (a) 90°   (b) 60°
    (c) 120°   (d) 180°

50. The sum of interior and exterior angle of a polygon is

    (a) 180°   (b) 270°
    (c) 360°   (d) 90°

51. The line segment joining at two points on a circle is called a/an

    (a) arc   (b) radius
    (c) chord   (d) tangent

52. The sum of exterior angle of a triangle is

    (a) 180°   (b) 270°
    (c) 360°   (d) 540°

MENSURATION

53. The perimeter of a rhombus is 40 cm and the length of its diagonal is 12 cm then the area of rhombus is

    (a) 95 cm²   (b) 96 cm²
    (c) 97 cm²   (d) 98 cm²

54. The number of vertices in the cuboid are

    (a) 12   (b) 8
    (c) 6   (d) 5

55. A circle has

    (a) 10 sides   (b) 20 sides
    (c) 300 sides   (d) infinite sides

56. If each of the dimensions of a rectangle is increased by 100%, then the area is increased by

(a) 100%
(b) 200%
(c) 300%
(d) 400%

57. The number of cubes of side 3cm that can be cut from a cube of side 6cm is

(a) 6
(b) 5
(c) 7
(d) 8

58. The ratio of the area of square to that of square drawn on its diagonal is

(a) 1 : 1
(b) 1 : 2
(c) 1 : 3
(d) 1 : 4

59. The sides of a triangle are 5 cm, 12 cm, and 13 cm, then the area of triangle is

(a) 30 cm²
(b) 60 cm²
(c) 65 cm²
(d) 78 cm²

60. The surface area of cube whose volume is 1000 cm³ is

(a) 400 cm²
(b) 600 cm²
(c) 900 cm²
(d) 300 cm

61. Two cubes have volumes in the ratio 1:27, then the ratio of the area of the face of one to that of the other is

(a) 1:3
(b) 1:6
(c) 1:9
(d) 1:18

62. If the altitude of an equilateral triangle is $\sqrt{6}$ cm. Its area is

(a) $2\sqrt{3}$ cm²
(b) $2\sqrt{2}$ cm²
(c) $3\sqrt{3}$ cm²
(d) $6\sqrt{2}$ cm²

63. The height of a parallelogram of area 350 cm² and base 25 cm is

(a) 12 cm
(b) 13 cm
(c) 14 cm
(d) 15 cm

64. If area of 4 walls of the hall whose breadth is 15 m and height is 8 m is 512 m². then the length of the hall is

(a) 14 m
(b) 16 m
(c) 10 m
(d) 17 m

65. Three metal cubes of volume 125 cm³, 64 cm³ and 27 cm³ are melted to form a new cube then edge of new cube formed is

(a) 12 cm
(b) 6 cm
(c) 10 cm
(d) 15 cm

1.	c	2.	b	3.	b	4.	b	5.	a	6.	c	7.	a
8.	d	9.	b	10.	c	11.	c	12.	d	13.	b	14.	a
15.	c	16.	b	17.	a	18.	b	19.	b	20.	b	21.	c
22.	b	23.	b	24.	c	25.	b	26.	c	27.	d	28.	d
29.	b	30.	a	31.	d	32.	b	33.	a	34.	b	35.	b
36.	b	37.	d	38.	a	39.	d	40.	c	41.	a	42.	a
43.	d	44.	d	45.	d	46.	d	47.	c	48.	a	49.	a
50.	a	51.	c	52.	c	53.	b	54.	b	55.	d	56.	c
57.	d	58.	b	59.	a	60.	b	61.	c	62.	a	63.	c
64.	d	65.	b										

PHYSICS

SYLLABUS

1. **MOTION AND TIME**
   Standard unit, Measurement of time, Speed, Uniform and Non-uniform motion, distance time graph.

2. **WIND, STORMS AND CYCLONES**
   Natural disasters, Air pressure, High speed wind causes reduced pressure, Air expands on heating, Wind currents, Thunderstorms, Cyclones and tornadoes, Cyclone forecasting and warning.

3. **HEAT AND ITS EFFECTS**
   What is heat and temperature? Effects of heat, Thermal expansion in solids, liquids and gases, Flow of heat through conduction, convection and radiation.

4. **LIGHT**
   Rectilinear propagation of light, Reflection of light, Real and virtual images, Spherical mirrors, Lenses and Spectrum.

5. **ELECTRIC CURRENT AND ITS EFFECTS**
   Electric current and electric circuits, Effects of electric current and the electromagnet conductors and insulators, electric cells.

MOTION AND TIME

1. A body moving with a constant velocity will have;
   - (a) Constant retardation
   - (b) Zero acceleration
   - (c) Constant acceleration
   - (d) Variable acceleration

2. Time period of simple pendulum depends on
   (a) Mass
   (b) Material
   (c) Size
   (d) Length

3. The maximum displacement of the bob from its mean position is called its
   (a) Oscillation
   (b) Wave length
   (c) Frequency
   (d) Amplitude

4. Motion of earth around the sun is
   (a) Periodic motion
   (b) Oscillatory motion
   (c) Rotatory motion
   (d) Random motion

5. The frequency of second's pendulum is
   (a) 2.0Hz
   (b) 0.5 Hz
   (c) 1.5Hz
   (d) 1.0 Hz

6. In a distance-time graph a line parallel to time axis (x-axis) represents
   (a) Uniform motion
   (b) Body at rest
   (c) Non- uniform motion
   (d) Uniform speed

WIND, STORMS AND CYCLONES

7. Air pressure at a given place depends on
   (a) Temperature
   (b) Height
   (c) Depth
   (d) All the above

8. Cyclones causes due to
   (a) Low pressure
   (b) High pressure
   (c) Height of the place
   (d) None of these

9. The instrument that is used to measure air pressure is
   (a) Thermometer
   (b) Anenometer
   (c) Barometer
   (d) Galvanometer

10. One of the major cause of flood is
    (a) Deforestation
    (b) Global warming
    (c) Green house effect
    (d) Pollution

HEAT AND ITS EFFECTS

11. At what temperature do the Fahrenheit and Celsius scales give the same reading?
    (a) - 40°
    (b) 0°
    (c) 273°
    (d) - 32°

12. The process in which solids are directly converted into gaseous state is called
    (a) Vaporization
    (b) Sublimation
    (c) Condensation
    (d) Solidification

13. The fastest mode of transfer of heat is
    (a) Radiation
    (b) Conduction
    (c) Convection
    (d) Propagation

14. 32º F is equal to
    (a) 273K   (b) 32º C
    (c) 0 K   (d) 100º C
15. The density of water is maximum at
    (a) 0º C   (b) 4º C
    (c) -10º C   (d) None of these

LIGHT

16. The image formed in a camera is
    (a) Upright   (b) Inverted
    (c) Always enlarged   (d) Always diminished
17. When the moon comes in between the sun and the Earth than it is
    (b) Lunar eclipse   (b) Solar eclipse
    (c) No eclipse   (d) None of these
18. Image formed by plane mirror is
    (b) Virtual   (b) Erect
    (c) Laterally inverted   (d) All the above
19. The image which can be focused on the screen is called _____ image
    (a) Virtual   (b) Real
    (c) Erect   (d) Enlarged
20. An object is visible to us due to
    (a) Regular reflection   (b) Regular refraction
    (c) Irregular reflection   (d) Irregular refraction

ELECTRIC CURRENT AND ITS EFFECTS

21. An electric current is a flow of
    (a) Protons   (b) Neutrons
    (c) Electrons   (d) None of these
22. A fuse wire should have
    (a) A low melting point   (b) High melting point
    (c) Very high melting point   (d) None of these
23. A kilowatt- hour is a unit of
    (b) Power   (b) Energy
    (c) Current   (d) Voltage
24. The effect of current that is used in electric bell is called;
    (b) Chemical effect   (b) Heating effect
    (c) Mechanical effect   (d) Magnetic effect
25. Good conductors have many loosely bound
    (b) Atoms   (b) Molecules
    (c) Protons   (d) Electrons

CHEMISTRY

SYLLABUS

I. **Physical and Chemical Changes** - Equations of chemical change, Types of chemical reaction.

II. **Acids, Bases and Salts** - Formulae, uses, general properties.

III. **Chemistry in your Life** - Useful elements, Metals, Non-metals, Alloys, Organic compounds, Man- made materials.

IV. **Water** - Properties of water, Hard and soft water, Pollution of water.

V. **Air and Its Constitutions** - Air a mixture, Oxygen - properties Carbon dioxide, Nitrogen, Rare- gases, Water - Vapour.

1. Physical change is :
   (a) Temporary and reversible
   (b) Temporary and irreversible
   (c) Temporary and permanent
   (d) None of these

2. The volume ratio of the hydrogen and oxygen obtained from water is :
   (a) 1 : 1
   (b) 2 : 1
   (c) 1 : 1
   (d) 2 : 2

3. In which of the following cases will the mass of the substance change ?
   (a) The freezing of water
   (b) The burning of wood
   (c) The glowing of an electric bulb
   (d) The melting of ice

4. Which law is followed by chemical change.
   (a) Law of conservation of mass
   (b) Boyle's law
   (c) Law of energy
   (d) None of these

5. Hydrogen was discovered by :
   (a) Henry Cavendish
   (b) Einstein
   (c) Theodar
   (d) Robert Hook

6. Complete the reaction $2H_2 + O_2 \rightarrow$ …………
   (a) H_2O
   (b) H_2O_2
   (c) $2H_2O$
   (d) $2H_2O_2$

7. Which of the following equations represents a displacement reaction ?
   (a) $2H_2 + O_2 \rightarrow 2H_2O$
   (b) $N_2 + 3H_2 \rightarrow 2NH_3$
   (c) $2H_2O \rightarrow 2H_2 + O_2$
   (d) $Mg + H_2O \rightarrow MgO + H_2$

8. Sour things we eat contain organic acids, so vinegar contains :
   (a) Malic acid   (b) Tartaric acid
   (c) Lactic acid   (d) acetic acid

9. To dilute a concentrated acid we add :
   (a) Acid to the water   (b) Water to the acid
   (c) Acid and base together   (d) Base to acid

10. Taj Mahal is made up of marble which is :
    (a) Calcium sulphate   (b) Calcium Oxide
    (c) Calcium Carbonate   (d) Calcium Bio Carbonate

11. Souring agent for pickles :
    (a) Tartaric acid   (b) Citric acid
    (c) Sulphuric acid   (d) Nitric acid

12. Name the given reaction HCl + NaOH $\rightarrow$ NaCl + H$_2$O
    (a) Decomposition   (b) Neutralization
    (c) Reduction   (d) None of these

13. Plaster applied over broken limbs is actually :
    (a) Calcium Sulphate   (b) Calcium Carbonate
    (c) Calcium Chloride   (d) Calcium Oxide

14. A dilute solution of phenol phthalein when added in alkaline solution it turns :
    (a) Blue   (b) Black
    (c) Pink   (d) Yellow

15. If a solution has pH$_7$ then the solution is :
    (a) Acidic   (b) Basic
    (c) Neutral   (d) None of these

16. Soluble bases are called :
    (a) Compound   (b) Elements
    (c) Alkalis   (d) Basic Salt

17. Which inert gas is filled in electric bulbs :
    (a) Neon   (b) Helium
    (c) Hydrogen   (d) Argon

18. Copper and zinc together make an alloy which is :
    (a) Bronze   (b) Duralumin
    (c) Brass   (d) Steel

19. Crystalline form of carbon is :
    (a) Gold   (b) Silver
    (c) Diamond   (d) Lead

20. Pure gold is said to be :
    (a) 22 Carats   (b) 23 Carats
    (c) 25 Carats   (d) 24 Carats

21. Chemical formula for washing soda is :
    (a) $Mg(OH)_2$ (b) $NaHCO_3$
    (c) Na_2O_3 (d) $Na_2CO_3.10H_2O$
22. The purest form of water is :
    (a) River Water   (b) Rain water
    (c) Sea water   (d) Tapwater
23. The density of ice is……….then water.
    (a) More   (b) Less
    (c) Equal   (d) Nil
24. The boiling point of water varies with :
    (a) Temperature   (b) Pressure
    (c) Volume   (d) Density
25. Which of the following processes are not a part of purification of water at the water works ?
    (a) Sedimentation   (b) Filteration
    (c) Chlorination   (d) Boiling
26. Neither air-free water nor moisture free air can cause :
    (a) Oxidation   (b) Reduction
    (c) Rusting   (d) None
27. How is the oxygen of air renewed :
    (a) Respiration   (b) Breathing
    (c) Photosynthesis   (d) None of these

ANSWER - KEY

1.	a	2.	b	3.	b	4.	a	5.	a	6.	c	7.	d
8.	d	9.	b	10.	c	11.	a	12.	b	13.	b	14.	c
15.	c	16.	c	17.	b	18.	c	19.	c	20.	d	21.	d
22.	b	23.	b	24.	b	25.	d	26.	c	27.	c		

BIOLOGY

SYLLABUS

I.   **The Cell** - Discovery of the cell, structure, shape and size, cell Division (Introduction)

II. **Organization in living things** - Levels of organisation, Plant tissues, Animal Tissues

III. **Respiration in plants and animals** - Process of breathing, Mechanism of breathing, Respiration in plants, Transpiration.

IV. **Nutrition in Plants and Animals** - Modes of nutrition, Nutrition in humans, Nutrition in plants, Transportation in plants.

V.   **Life under Microscope** - Bacteria, Algae, Protozoans, Fungi, Viruses, Useful Microorganisms.

1. The basic unit of life, both structurally and functionally is………….
    (a) Tissue   (b) Cell
    (c) Cytoplasm   (d) Membrane

2. The cell which can change its shape frequently :
    (a) Amoeba   (b) Rhizopus
    (c) RBCs   (d) None of these

3. Number of chromosomes in each cell of human is :
    (a) 16   (b) 46
    (c) 26   (d) 56

4. Which part of the cell has nick name 'Power house of the cell' :
    (a) Golgi Body   (b) Lysosomes
    (c) Mitochondria   (d) Cell wall

5. Which cell organelle help a plant trap solar energy.
    (a) Leveoplast   (b) Chromoplast
    (c) Thromboplast   (d) Chloroplast

6. The scientist who coined the biological term cell :
    (a) Robert Hooke   (b) Leeuwenhock
    (c) Rudolf   (d) Matthias

7. The outer most non-living part of plant cell.
    (a) Tonoplast   (b) Chloroplast
    (c) cell-wall   (d) Cell-membrane

8. Healing of wounds takes place as a result of which process :
    (a) Respiration   (b) Excretion
    (c) Cell-Division   (d) None of these

9. If we touch a hot article, we immediately withdraw our hand, if touch is a stimulus then withdrawing hand is :

   (a) Response
   (b) Movement
   (c) Metabolism
   (d) None of these

10. Respiration - Oxygen,   Photosynthesis : _____ ?

    (a) Nitrogen
    (b) Water
    (c) Carbondioxide
    (d) Hydrogen

11. Plant tissue that has the unique capacity to divide continuously :

    (a) Meristematic tissue
    (b) Parenchyma
    (c) Xylem
    (d) None

12. We cannot move them by making a conscious effort. They are :

    (a) Voluntary muscles
    (b) Involuntary muscles
    (c) Cardiac muscle
    (d) None of these

13. The tissue which insulate the body against the cold.

    (a) Areolar tissue
    (b) Adipose tissue
    (c) Elastic tissue
    (d) Bones

14. A cell which transmit messages from all parts of the body to the brain and spine :

    (a) Blood
    (b) Lymph
    (c) WBCs
    (d) Neuron

15. A plant tissue which is a dead tissue ?

    (a) Xylem
    (b) Phloem
    (c) Parenchyma
    (d) Sclerenchyma

16. Locomotory structure of Amoeba is known as :

    (a) Pseudopodia
    (b) Hagella
    (c) Tentacles
    (d) Cilia

17. Respiratory tube or wind pipe is known as :

    (a) Alveoli
    (b) Bronchus
    (c) Trachea
    (d) None of these

18. Complete the reaction $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + ?$

    (a) Nitrogen
    (b) Smoke
    (c) Water
    (d) Energy

19. Woody stems have minute openings for transpiration which called :

    (a) Cuticle
    (b) Veins
    (c) Stem
    (d) Lenticels

20. Inhaling and Exhaling are the part of which process :

(a) Respiration
(b) Excretion

(c) Breathing
(d) None of these

21. Organisms that live on dead and decaying matter :

(a) Herbivores
(b) Parasites

(c) Saprophytes
(d) Autotrophs

22. Haemoglobin found in blood is a :

(a) Fat
(b) Protein

(c) Carbohydrate
(d) Vitamin

23. Vitamin K is soluble in :

(a) Fat
(b) Water

(c) Salt
(d) Milk

24. Which structure in a plant act as Mouth taking in gases and evaporating water vapour :

(a) Xylem
(b) Phloem

(c) Vascular Bundle
(d) Stomata

25. Refflesia plant which, produces largest flower is a :

(a) Saprophyte
(b) Parasite

(c) Symbionts
(d) None of these

26. Algin a gummy substance used to thicken food items like ice cream is obtained from :

(a) Bacteria
(b) Virus

(c) Fungi
(d) Algae

27. A unicellular organism which contain chlorophyl.

(a) Paramoecium
(b) Euglena

(c) Amoeba
(d) None

28. An intermediate form between the living and non-living.

(a) Virus
(b) Bacteria

(c) Algae
(d) Fungi

29. A bacteria present in curd is :

(a) Lactobacillus
(b) Streptococaus

(c) Escherichia
(d) None

30. The full form of AIDS is…………..

(a) Adenocine Immune Dominating Syndrome

(b) Acquired Immuno Deficiency Syndrome

(c) Deficiency syndrome

(d) None

SOCIAL STUDIES

HISTORY

1.   Medieval Period in India
2.   The Delhi Sultanate
3.   The Vijayanagar & Bahmani Kingdom
4.   The Mughals
5.   Akbar & Shahjahan
6.   The Rise of the Modern Period

1.   Akbar, the greatest of the Mughal Emperors of India, reigned from :
     (a)   1656-1680   (b)   1550-1605
     (c)   1566-1605   (d)   1500-1600
2.   The study of Inscription is called :
     (a)   Artistic study   (b)   Literature study
     (c)   Archaeological study   (d)   Epigraphy
3.   The study of coins is known as :
     (a)   Manuscript   (b)   Artifacts
     (c)   Epigraphy   (d)   Numismatic
4.   A complementary work of Abul Fazl :
     (a)   Ain-i-Akbari   (b)   Padshahnama
     (c)   Humayunama   (d)   Tuzuk-i-Jahangiri
5.   The Kirtan system of worship is given by :
     (a)   Guru Tegh Bahadur   (b)   Ramananda
     (c)   Chaitanya Mahaprabhu   (d)   Vallabhacharya
6.   Official Language of The Delhi Sultanate was :
     (a)   Urdu   (b)   Hindi
     (c)   Persian   (d)   Arabic
7.   The Qutub Minar was built by :
     (a)   Qutb-ud-din   (b)   Iltutmish
     (c)   Qutub-ud-din and Iltutmish   (d)   Balban
8.   Amir Khusran was patronized by :
     (a)   Muhammd Ghori   (b)   Mahmud Ghazni
     (c)   Qutb-ud-din Aibak   (d)   Ala-ud-din Khilji

9. Tick the correct chronology of dynasties of Delhi Sultanat :
   (a) Slave,Lodhi,Sayyid, Tughlaq, Khilji
   (b) Slave, Khilji, Lodhis, Sayyid, Tughlaq
   (c) Khilji, Slave, Sayyid, Lodhi Tughlaq
   (d) Lodhi, Sayyid. Tughlaq, Khilji, Slave

10. Sikandar Lodhi founded the city of :
    (a) Agra
    (b) Siri
    (c) Jaunpur
    (d) Daulatabad

11. A ruler who defeated Prithviraj Chauhan and Captured Delhi in 1192 :
    (a) Qutabuddin Aibak
    (b) Balban
    (c) Alauddin Khilji
    (d) Muhammad Ghori

12. Mohammad Ghori attacked India mainly:
    (a) To plunder the wealth of India
    (b) To establish his empire
    (c) To spread enmity towards Afghan
    (d) To spread Islam

13. Who became the king of Delhi after the death of Muhammad Ghori ?
    (a) Qutb-din-Aibak
    (b) Balban
    (c) Iltutmish
    (d) Razia

14. Who ascended the throne after Aibak ?
    (a) Aram Baksh
    (b) Iltutmish
    (c) Razia
    (d) Balban

15. Who established the Vijay Nagar Empire ?
    (a) Hari Hara and Bukka
    (b) Krishna-Devaraya
    (c) Saluva Narasimha
    (d) Sadasivaraya

16. Hampi was the capital of .... Kingdom :
    (a) Bahamani
    (b) Bijapur Sultans
    (c) Vijayanagar
    (d) Golconda Sultans

17. Vijay Nagar and Bahmani Sultans fought frequently for control over :
    (a) Raichur Doab
    (b) Bijapur
    (c) Golconda
    (d) Gulbarga

18. The Vijay Nagar ruler who made treaty with Portuguese :
    (a) Alia Ramaraya
    (b) Bukka
    (c) Saluva Narasimha
    (d) Sri Krishna Devaraya

19. Who among the following rulers built Charminar in Hyderabad?
    (a) The Mughals
    (b) The Bahamanis
    (c) The Delhi Sultans
    (d) The Persians

20. I Battle of Panipat led to the establishment ....in India :
    (a) Mughal Empire
    (b) Afghan Empire
    (c) British Empire
    (d) Dutch Empire

21. Buland Darwaza built by Akbar was to commemorate victory over............
    (a) Gujarat
    (b) Bengal
    (c) Delhi
    (d) Deccan

22. Where was the tomb of Babar built ?
    (a) Delhi   (b) Kabul
    (c) Agra   (d) Aurangabad
23. If Fatehpur Sikri is associated with Akbar then Kabul is associated with tomb of ?
    (a) Humayun   (b) Aurangzeb
    (c) Babur   (d) Shahjahan
24. Whom did Babar fought in the first Battle of Panipat ?
    (a) Bahlal Lodi   (b) Muhammad Lodi
    (c) Ibrahim Lodi   (d) Sikander Lodi
25. Which of the following is Not associated with Mughal Empire ?
    (a) Qutub Minar   (b) Taj Mahal
    (c) Red Fort   (d) Etmad Ud Daulah
26. Who is known as The Great Mughal in the Indian History ?
    (a) Akbar   (b) Akbar II
    (c) Shahjahan   (d) Aurangzeb
27. Who was the architect of Tajmahal ?
    (a) Amdulla   (b) Ustad Ahmad Lahari
    (c) Usman Khan   (d) Utbi
28. Which was the major characteristic of the Renaissance ?
    (a) Conformity   (b) Humanism
    (c) Mysticism   (d) Obedience
29. Which societal condition was basic to the development of Greek Philosophy and Renaissance Art ?
    (a) Rigid Social Classes   (b) Emphasis on Individualism
    (c) Religious Uniformity   (d) Mass Education
30. 'Mona Lisa' was the best piece of art of :
    (a) Michelangelo   (b) Leonardo-da-Vinci
    (c) Raphael Sanzio   (d) Johannes

ANSWER - KEY

1.	c	2.	d	3.	d	4.	a	5.	c	6.	c	7.	c
8.	c	9.	b	10.	a	11.	d	12.	a	13.	a	14.	a
15.	a	16.	c	17.	a	18.	d	19.	b	20.	a	21.	a
22.	b	23.	c	24.	c	25.	a	26.	a	27.	c	28.	b
29.	c	30.	b										

CIVICS & GEOGRAPHY

CIVICS
SYLLABUS
1. Basic features of Indian Constitution
2. Democracy
3. Election
4. The Role of Women in India
5. Good Citizenship

1. The Governor of a State is appointed by the President on the advice of the
   (a) Prime Minister of India
   (b) Vice- President of India
   (c) Chief Minister of that state
   (d) Chief Justice of India
2. The President tenders his resignation to the
   (a) Chief Justice
   (b) Parliament
   (c) Vice President
   (d) Prime Minister
3. For what period does the Vice President of India hold office?
   (a) 5 years
   (b) Till the age of 65 years
   (c) 6 years
   (d) 2 years
4. The impeachment or removal of the president of India is made by
   (a) The Parliament
   (b) The Chief Justice of India
   (c) All the Governors of state
   (d) All of the above
5. The Magna Carta, the Glorious Revolution, and the writings of John Locke all contributed to Great Britain's development of
   (a) Absolute monarchy
   (b) Ethnic rivalries
   (c) Parliamentary democracy
   (d) Imperialist policies
6. Which generalization about democracy is most valid?
   (a) Democratic political systems require a highly industrialized society
   (b) Democratic governments first evolved in North America
   (c) Democratic governments prevent their citizens from traveling abroad
   (d) Democratic governments protect basic civil liberties
7. Which factor is necessary for the development of democratic institutions?
   (a) Strong military forces
   (b) Respect for individual rights
   (c) A one-party system
   (d) An agricultural economy
8. The president of India holds office for a period of:-
   (a) 6
   (b) 5
   (c) 4
   (d) 7
9. President electoral college consists of:-
   (a) Members of Parliament
   (b) Members of Legislative Assembly
   (c) Members of state legislative council
   (d) Elected members of parliament & state legislative

[29]

10. A dispute regarding the election of the President is referred to the:-
    (a) The Election commission of India   (b) The Parliament
    (c) The Supreme Court   (d) The Vice President

11. Whom does the speaker of Lok Sabha tenders his/her resignation
    (a) Prime Minister of India   (b) Vice President
    (c) Governor of Delhi   (d) Deputy Speaker

12. Which of the following is NOT true of gender roles?
    (a) Males are physically stronger on average than women.
    (b) In most societies males pre-empt major centres of public power.
    (c) Matriarchies existed in the past but were overthrown by men.
    (d) There are many societies without marked gender inequalities.

13. A dowry
    (a) is compensation to the bride's family for losing a daughter
    (b) is the transfer of money or wealth by the groom's family for the loss of his labour
    (c) is wealth received by the bride from her husband's family
    (d) is compensation for taking responsibility for the bride where women are regarded as economic burden

14. Exogamy is
    (a) a rule stipulating that one must marry outside one's own group.
    (b) a rule stipulating one must marry inside one's own group
    (c) a rule observed only by the Nayar
    (d) considered incestuous in some societies

15. Who have the right to hold certain high offices such as those of the president, Vice-President, Governor of State etc.?
    (a) Citizens only   (b) Citizens and Non-citizens as well
    (c) Citizens and N.R.I.'s   (d) Citizens and Overseas Indians as well

16. Which type of Citizenship Constitution has established for the whole of India?
    (a) Single citizenship   (b) Double citizenship
    (c) Three citizenship   (d) There is no thing like that in our constitution.

ANSWER KEY
CIVICS

1.	a	2.	c	3.	a	4.	a	5.	c	6.	d	7.	b
8.	b	9.	d	10.	c	11.	d	12.	c	13	d	14.	a
15.	a	16	a										

GEOGRAPHY

SYLLABUS

1. The structure of the Earth
2. Effects of Pollution
3. Waves tides and Currents
4. North America - Land, Climate, Natural Vegetation, Resources & Their Utilization
5. South America - Land, Climate, Natural Vegetation, Resources and Their Utilization
7. Antarctica

1. The Earth's shape most closely resembles which of the following object
    (a) a basketball   (b) a pear
    (c) a ping-pong ball   (d) an apple

2. An observer watching a sailing ship at sea notes that the ship appears to be "sinking" as it moves away. Which statement best explains this observation?
    (a) The surface of the ocean has depressions   (b) The earth has a curved surface
    (c) The earth is rotating   (d) The earth is revolving

3. According to the Earth Science Reference Tables, the equatorial radius of the Earth is approximately
    (a) 637 km   (b) 6370 km
    (c) 63700 km   (d) 637000 km

4. At which location would an observer find the greatest force due to the Earth's gravity?
    (a) North Pole   (b) Tropic of Capricorn
    (c) Tropic of Cancer   (d) Equator

5. The water sphere of the earth is known as the
    (a) atmosphere   (b) troposphere
    (c) lithosphere   (d) hydrosphere

6. Which statement provides the best evidence that the Earth has a nearly spherical shape?
    (a) The sun has a spherical shape.
    (b) The altitude of Polaris (N. Star) changes with the observer's latitude in the Northern Hemisphere.
    (c) Star trails photographed over a period of time show a circular path.
    (d) The length of noontime shadows change throughout the year.

7. The latitude of a point in the Northern Hemisphere may be determined by measuring the
    (a) apparent diameter of Polaris   (b) altitude of Polaris
    (c) distance to the Sun   (d) apparent diameter of the Sun

8. Many scientist believe that the greenhouse effect is the result of
    (a) overgrazing on land in developing nations
    (b) using large amounts of gasoline, oil, and coal in developed nations
    (c) testing nuclear weapons in violation of the Nuclear Test Ban Treaty

(d)   using natural fertilizers to increase crop production

9.   A major factor contributing to the destruction of the Amazon rain forests is the
(a)   movement of people from rural to urban areas
(b)   need for more farmland
(c)   attempt of native peoples to end illegal drug traffic
(d)   None of these

10.   The amount of carbon dioxide in the atmosphere has increased in recent years. This change is a direct result of the
(a)   improper storage of solid and nuclear waste
(b)   excessive felling of trees and the increased use of fossil fuels
(c)   dumping of inorganic material into lakes and rivers
(d)   use of herbicides and toxic substances such as asbestos and DDT

11.   In developing countries, the use of wood, charcoal, and dung as major sources of energy has created an increase in
(a)   economic dependence on industrialized nations
(b)   sales an profits for international oil corporations
(c)   deforestation and other environmental problems
(d)   nuclear waste products

12.   A negative impact of the use of modern technology is that
(a)   levels of air and water pollution often increase
(b)   economic opportunities are frequently limited
(c)   contacts with other cultures decrease
(d)   international trade is limited

13.   In Latin America, the deforestation of the Amazon rain forest has led to
(a)   the maintenance of a traditional way of life   (b)   the discovery of new medicines
(c)   overpopulation in rural regions   (d)   environmental dangers

14.   Oceans cover approximately _____ percent of the Earth's surface.
(a)   30   (b)   50
(c)   70   (d)   90

15.   The height of an ocean wave increases as _____ .
(a)   the wind speed increases
(b)   the wind blows for longer times
(c)   the distance over which the wind flows over the water increases
(d)   all of these

16.   The distance between two wave crests is called the _____
(a)   wavelength   (b)   wave height
(c)   throw   (d)   period

17.   Waves cause small particles floating on the surface to move in _____
(a)   horizontal elliptical orbits   (b)   vertical elliptical orbits

(c) horizontal circular orbits   (d) vertical circular orbit

18. What is the name of the Mesozoic supercontinent that consisted of all of the present continents?
(a) Eurasia   (b) Laurasia
(c) Pangaea   (d) Gondwanaland

19. The east coast of North America represents a _____
(a) convergent boundary   (d) divergent boundary
(c) transform boundary   (d) non of these

20. In 50 million years?
(a) 150 kilometers   (b) 1000 kilometers
(c) 1500 kilometers   (d) 30 kilometers

21. These two countries are world leaders in coffee production.
(a) Bolivia and Peru   (b) Columbia and Brazil
(c) Uruguay and Bolivia   (d) Chile and Paraguay

22. What is the main language of most countries in South America?
(a) English   (b) Spanish
(c) French   (d) Portuguese

23. What is a mestizo?
(a) Mix of Native American and Arab   (b) Mix of European and Native American
(c) Mix of Black person and White person   (d) Mix of Asian and African

24. What Native American group ruled western South America for hundreds of years?
(a) Incas   (b) Cherokee
(c) Aztecs   (d) Nez Perce

25   What is the fertile area where many crops are grown in Argentina?
(a) Pampas   (b) Amazon
(c) Llanos   (d) Highlands

26. If you want to attend one of the biggest Carnival celebrations in the world - which country would you go to?
(a) French Guyana   (b) Ecuador
(c) Bolivia   (d) Brazil

27. Which country has a large Italian influence (as mentioned by our guest speaker)?
(a) Argentina   (b) Colombia
(c) Brazil   (d) Guiana

28. This country is home to Lake Maracaibo
(a) Paraguay   (b) Chile
(c) Brazil   (d) Venezuela

29. Which of the following countries is landlocked?
(a) Paraguay   (b) Colombia
(c) Ecuador   (d) Peru

30. Which of these animals do you NOT get in Antarctica?

    (a) Penguins   (b) Whales

    (c) Polar bears   (d) Seals

31. Antarctica is:

    (a) Nearly all exposed land with some glaciers

    (b) About half ice and half exposed land

    (c) Mainly ice, with a few areas of exposed land

    (d) None of these

32. What are the native people of Antarctica called?

    (a) Antarcticans   (b) South Polians

    (c) There are no native people of Antarctica(d) North Polians

33. Antarctica has the world's largest?

    (a) Desert   (b) Mountains

    (c) Volcano   (d) Continent

GEOGRAPHY

1.	c	2.	b	3.	b	4.	a	5.	d	6.	b	7.	b
8.	b	9.	c	10.	b	11.	c	12.	a	13.	d	14.	c
15.	d	16.	a	17.	d	18.	c	19.	c	20.	c	21	b
22.	b	23.	b	24.	a	25.	a	26.	d	27.	a	28.	d
29.	a	30.	c	31.	c	32.	c	33.	a				

GENERAL KNOWLEDGE

SYLLABUS

1.	Religion and Mythology	2.	Literature
3.	Famous Personalities	4.	Awards
5.	Sports and Games	6.	Entertainment
7.	Inventions	8.	Abbreviations
9.	National and World Events	10.	Current Affairs
11.	Health Issues		

1. The sufism is based on Pir - Murid ; *PIR MURID* means

    (a) Teacher and Priest   (b) Teacher and student

    (c) Teacher and Scholar   (d) Priest and Servants

2. Garam Pani sanctuary is located at

    (a) Junagarh, Gujarat   (b) Diphu, Assam

    (c) Kohima, Nagaland   (d) Gangtok, Sikkim

3. Which of the following disciplines is Nobel Prize awarded ?

    (a) Physics and Chemistry   (b) Physiology or Medicine

    (c) Literature, Peace and Economics   (d) All of the above

4. The famous Rock Garden is located at
   (a) Chandigarh   (b) New Delhi
   (c) Sri Nagar   (d) Shimla
5. The highest civilian award given by Government of India
   (a) Ashoka Chakra   (b) Bharat Ratna
   (c) Padmashree   (d) Padmabhushan
6. Galileo was an Italian astronomer who
   (a) Developed the telescope
   (b) Discovered four satellites of Jupiter
   (c) Discovered that the movement of pendulum produces
   (d) All of the above
7. The following countries are not the members of Gulf Cooperation Council
   (a) Saudi Arabia   (b) Bahrain
   (c) Qatar   (d) Egypt
8. Guwahati High Court is the judicature of
   (a) Nagaland   (b) Arunachal Pradesh
   (c) Assam   (d) Manipur
9. The procedure of doping test is including the collection of.
   (a) Sugar sample   (b) Urine sample
   (c) Stool Sample   (d) Blood Sample
10. How many athletes may be used as substitutes in Relays race event
    (a) One athlete.   (b) Two athlete
    (c) Three athlete   (d) None of these.
11. When is "World Peace Day"?
    (a) January 1   (b) February 22
    (c) September 2   (d) December 31
12. Film and TV institute of India is located at
    (a) Pune   (b) Rajkot
    (c) Chennai   (d) Mumbai
13. When is "World Wetland Day" ?
    (a) February 2   (b) May 10
    (c) June 11   (d) July 9
14. When is "World Cancer Day"?
    (a) February 4   (b) February 19
    (c) February 21   (d) February 12
15. Sri Guru Govind Singh was
    (a) The Ist Guru of the Sikh (b) Built Golden Temple
    (c) Both a) & b)   (d) Founder of Khalsa
16. When is "International Womens' Day"?
    (a) January 2   (b) March 8
    (c) March 2   (d) March 22

17. Vishakhapatnam is a city of India is associated with
    (a) Ship building   (b) Mining
    (c) I T Industry   (d) All of these
18. The Rice Bowl of India is
    (a) Chathisgarh   (b) Patna
    (c) Bhopal   (d) Guwahati
19. The Financial Capital of India is
    (a) Chennai   (b) Mumbai
    (c) Kolkata   (d) Panjim
20. Coral reefs in India can be found in
    (a) The coast of Odisha   (b) Port Blair
    (c) Rameshwaram   (d) Trivandrum
21. Durand Cup is associated with the game of ?
    (a) Cricket   (b) Football
    (c) Hockey   (d) Volleyball
22. Which of the following is a coastal city
    (a) Mumbai   (b) Bangalore
    (c) Bhopal   (d) Nagpur
23. India's first National Centre for Molecular Materials (NCMM) is to be established in which of the states ?
    (a) Kerala   (b) Gujarat
    (c) Rajasthan   (d) Maharashtra
24. Headquarters of UNO are situated at
    (a) New York, USA   (b) Hague (Netherland)
    (c) Geneva   (d) Paris
25. The Kyoto Protocol is associated with
    (a) E Governance   (b) Climatic change
    (c) Black Money Regulator   (d) All of the above
26. ESCAP stands for
    (a) Economic and Social Commission for Asia and Pacific
    (b) European Society Council for Africa and Pacific
    (c) Economic and Social Commission for Africa and Pacific
    (d) None of these
27. Choose the correct pair of the Parliament of different Nations?
    (a) Duma : Russia   (b) House of Lords : US
    (c) Nepal : Rashtriya Sabha   (d) Congress : UK
28. Himalayan Mountaineering Institute is at
    (a) Darjeeling   (b) Dehradun
    (c) Shimla   (d) Dispur
29. Red clif line is demarcation land boundary between
    (a) China and Japan   (b) India and China
    (c) India and Pakistan   (d) India and Afghanistan

30. India has largest deposits of _____ in the world
    (a) Gold   (b) Copper
    (c) Mica   (d) None of the above
31. India's first satellite is named after
    (a) Aryabhatta   (b) Apsara
    (c) Bhaskara I   (d) Chandrayan
32. India's first atomic reactor was
    (a) Zerlina   (b) Sputnik
    (c) Apsara   (d) Laughing Buddha
33. Full form of W H O
    (a) World Hygiene Organisation   (b) World Health Office
    (c) World Health Organisation   (d) None of these
34. The Headquarters of all the Three Armed Forces of India is located at
    (a) New Delhi   (b) Kolkata
    (c) Lucknow   (d) Mumbai
35. National Defence Academy is located at
    (a) Pune   (b) Mumbai
    (c) Jaipur   (d) Chennai
36. Largest Producer State of Sugarcane in India
    (a) Uttar Pradesh   (b) Maharashtra
    (c) Tamil Nadu   (d) Jharkhand
37. Hutti the only gold mining works in India is in
    (a) Odisha   (b) Karnataka
    (c) Kerala   (d) West Bengal
38. Tehran is the capital city of
    (a) Afghanistan   (b) Iraq
    (c) Iran   (d) Bangladesh
39. The only Indian city to have monorail is in
    (a) Delhi   (b) Kolkata
    (c) Nagpur   (d) Mumbai
40. The "Dachigam National Park" is in
    (a) Jammu Kashmir   (b) Himachal Pradesh
    (c) Mizoram   (d) Assam
41. Who was the author of the famous storybook 'Alice's Adventures in Wonderland'?
    (a) Rudyard Kipling   (b) John Keats
    (c) Lewis Carroll   (d) H G Wells
42. How many lines does a sonnet have?
    (a) 10   (b) 12
    (c) 14   (d) They vary
43. Who wrote 'Where ignorance is bliss, it is folly to be wise'?
    (a) Browning   (b) Marx
    (c) Shakespeare   (d) Kipling

44. Name the book which opens with the line 'All children, except one grew up'?
    (a) The Railway Children   (b) Winnie the Poo
    (c) Jungle book   (d) Peter Pan
45. Which is the first Harry Potter book?
    (a) HP and the Goblet of Fire (b) HP and the Philosopher's Stone
    (c) HP and the Chamber of Secrets (d) Jeam
46. In which century were Geoffrey Chaucer's Canterbury Tales written?
    (a) 14th   (b) 15th
    (c) 16th   (d) 17th
47. What nationality was Robert Louis Stevenson, writer of 'Treasure Island'?
    (a) Scottish   (b) Welsh
    (c) Irish   (d) French
48. 'Jane Eyre' was written by which Bronte sister?
    (a) Anne   (b) Charlotte
    (c) Emily   (d) None of these
49. What is the book 'Lord of the Flies' about?
    (a) A round trip around the USA (b) A swarm of killer flies
    (c) Schoolboys on the desert island (d) Kidnapping of school children
50. In the book' The Lord of the Rings', who or what is Bilbo?
    (a) Dwarf   (b) Wizard
    (c) Hobbit   (d) Troll
51. Who wrote the crime novel "Ten Little Niggers"?
    (a) Sir Arthur Conan Doyle   (b) Irvine Welsh
    (c) Agatha Christie   (d) Emile Zola
52. The special court which tackles environmental problem is known as
    (a) Central Environmental Court (b) National Environmental Court
    (c) National Geographical Court (d) National Green Tribunal
53. Which among the following languages is not listed under the 8th schedule of Indian constitution
    (a) Santhali   (b) Konkani
    (c) Marathi   (d) Bhojpuri
54. World's largest tiger reserve is located in
    (a) China   (b) Thailand
    (c) Nepal   (d) Myanmar
55. Which economist had developed the concept of National Income Measurement and its significance in Economic Development?
    (a) Ragnar Nurkse   (b) Amartya Sen
    (c) Simon Kuznets   (d) John Maynard Keynes
56. Who played Batman against Jack Nicholson's Joker?
    (a) Val Kilmer   (b) Michael Keaton
    (c) Tommy Lee Jones   (d) Nicholas Cage

57. Which cricketer's popularity was so much that his wedding was broadcast live on the government television throughout the country?
    (a) Clive Lloyd   (b) Vivian Richards
    (c) Michael Holding   (d) Malcolm Marshal
58. Select the city not affected by ISIS
    (a) Tel a Viv   (b) Tikrit
    (c) Mosul   (d) None of these
59. The Finance Minister presents yearly budget in
    (a) Rajya Sabha   (b) Presidents House
    (c) Prime Ministers Office   (d) Lok Sabha
60. The state which got 100% sanitization status
    (a) West Bengal   (b) Andhra Pradesh
    (c) Kerala   (d) Sikkim
61. What is the name of the disease in man arising out of Vitamin B1 deficiency ?
    (a) Scurvy   (b) Beriberi
    (c) Pellagra   (d) Gingivitis
62. The deficiency of which of the following group of nutrients affects the skin ?
    (a) Iron, Iodine, Zinc, Potassium   (b) Riboflacin, Niacin, Pyridoxine, Pantothenic Acid
    (c) Vitamin K, Calcium, Fluorine, Copper (d) All the three
63. What does niacin deficiency cause ?
    (a) Acne   (b) Scurvy
    (c) Boils   (d) Pellagra
64. What are the effects of Vitamin B6 deficiency ?
    (a) Beriberi   (b) Scurvy
    (c) Dermatomyoma   (d) Certain types of Eczema
65. Which of the following diseases is associated with Vitamin C deficiency ?
    (a) Psoriasis   (b) Scurvy
    (c) Pellagra   (d) Vitiligo
66. What does Vitamin K deficiency lead to ?
    (a) Problem in digestion   (b) Problem in Blood Coagulation
    (c) Problem in Calcium Metabolism   (d) All the three
67. Using purgatives on a regular basis is harmful to health. Which deficiency does it cause ?
    (a) Iron   (b) Potassium
    (c) Iodine   (d) Chromium
68. Keth Cross the First woman umpire belongs
    (a) Australia   (b) New Zealand
    (c) England   (d) South Africa
69. Select the incorrect pair of National Park
    (a) Dachigam - J & K   (b) Manas - Assam
    (c) Pachmari - M P   (d) Keoldeo - Arunachal Pradesh

70. Night blindness drying of the conjunctiva, dry and scaly skin and loss of hair are some of the symptoms of :

    (a) Vitamin K deficiency   (b) Vitamin A deficiency
    (c) Iron deficiency   (d) Folic acid deficiency

71. Indias First Water express arrived at which place to save people from drought?

    (a) Bolangir   (b) Latur
    (c) Bijapur   (d) Bidar

72. BrahMos is an Indian missile named after two ....of India and Russia

    (a) National Animals   (b) Defence deals
    (c) Rivers   (d) Economic deals

73. Who is the Vice Chairperson of the NITI AYOG

    (a) B S Bassi IPS   (b) Prof Arvind Panagariya
    (c) D G Pathak IPS   (d) Mr Nandan Nilekani

74. "Bharatavani " the multilingual knowledge portal has been launched by which union ministry?

    (a) Ministry of Culture   (b) Ministry of Human Resource Development
    (c) Ministry of Health and Family Welfare (d) Ministry of Skill Development

75. The Islamic Development Bank (IDB) will open its first branch in which city of India?

    (a) Ajmer   (b) Ahmedabad
    (c) Raipur   (d) Lucknow

ANSWER KEY

1.	b	2.	b	3.	d	4.	a	5.	b	6.	d	7.	d
8.	c	9.	b	10.	a	11.	a	12.	a	13.	a	14.	a
15.	d	16.	b	17.	a	18.	a	19.	b	20.	c	21.	b
22.	a	23.	a	24.	a	25.	b	26.	a	27.	a	28.	a
29.	c	30.	c	31.	a	32.	c	33.	c	34.	a	35.	a
36.	b	37.	b	38.	c	39.	d	40.	a	41.	c	42.	c
43.	c	44.	d	45.	b	46.	a	47.	a	48.	d	49.	c
50.	c	51.	c	52.	d	53.	d	54.	d	55.	c	56.	b
57.	b	58.	a	59.	d	60.	d	61.	b	62.	b	63.	d
64.	d	65.	b	66.	b	67.	b	68.	b	69.	d	70.	b
71.	b	72.	c	73	b	74.	b	75.	b				

PART - B (SUBJECTIVE TYPE)

ESSAY WRITING

Instructions :
* Students are required to write an essay on any ONE of the given topics
* Maximum word limit is 300 words
* **Part B is considered only if you score 80% and above in Part A Objective type**
* Attempting **Essay is compulsory** failing which the answer sheet will not be considered for grading even if you score 100% in Part A
* Adequate space will be provided for Part B
* There is **no provision of Extra Sheet** so please complete the essay in the space given to you

---

Topics

1. Write an essay on global warming .

2. Write an essay on various health schemes of the Union Government and how does it help the common man .

3. Write an essay on Rural and Urban health problems and bring out some measures to create an healthy environment .

4. Write an essay on deforestation and its adverse effects on environment.

5. Write an essay on leprosy and the social stigma attached to it.

KNEUS SCHOLASTIC APTITUDE TEST CLASS VIII

Model Question Paper

Kindly follow the instructions

- Verify your **Roll Number, School Code** and other details before you start answering

- This question paper contains **100 questions in Part A**. Each question is followed by a series of choices or possible answers. Choose any one option which you feel is correct.

- All questions carry **equal marks.** There is **no negative marking for wrong answers**.

- There is a **essay writing in Part B. No evaluation will be made if Part B is unattempted.**
  Thus Both the sections are to be compulsorily attempted.However part B is considered only when a student secures more than 90% in Part A Objective type

- Try to answer every question. Your test score will be based on the number of questions you answer correctly.

- Please attempt Part B in the space provided in the test booklet or any other specified medium

- **use either blue or black pen for shading the OMR.**

- Please do not mark anything on the OMR sheet other than shading portion to mark your answers

- shade only one answer for each question. Double shading are scored as wrong answers.

- Keep your answer sheets on a hard surface while answering. Do not fold or crease your answer sheet.

- Do not scribble on the answer book.

- **For rough work** use the plain sheet given **at the end of the book**.

- When you finish your test, if time permits, you may re check your work.

Sample Procedure for answering the question

Who is remembered as the missile man of India?

A.   Mr. Narendra Modi   B.   Dr. Manmohan Singh

C.   Dr. Pranab Mukherjee   D.   Smt Pratibha Patil

E.   Dr. APJ Abdul Kalam

     Correct Way   Don't do this way

[A] [B] [C] [D] [■E■]   [A] [B] [C] [D] [E̶]
                                    [A] [B] [C] [D] [�]
                                    [A] [B] [C] [D] [Ⓔ]

Find the most appropriate meaning of :

1. Refreshing
    (a) Producing   (b) Surprisingly
    (c) Encouraging   (d) Pleasantly
    (e) Consuming

Fill in the blanks with correct determines :

2. She bought a gift for………………….child.
    (a) few   (b) some
    (c) every   (d) any
    (e) each

3. There is a wonderful view from…………………balcony.
    (a) these   (b) those
    (c) this   (d) that
    (e) their

Fill in the blank with the correct form of the verb.

4. Madhu and Anu………………….for two hours.
    (a) was shopping   (b) have been shopping
    (c) were shopping   (d) has been shopping
    (e) is shopping

5. We…………………to Bangalore next week.
    (a) has been going   (b) was going
    (c) are going   (d) were going
    (e) is doing

Use an appropriate conjunction to fill the blanks.

6. Mend your habit…………………you will repent.
    (a) as if   (b) so that
    (c) otherwise   (d) that
    (e) as that

7. He is a good servant…………………he has greed for food.
    (a) but   (b) where as
    (c) only   (d) for
    (e) if

Mention the form of verb used transitive, intransitive verb or a linking verb.

8. The dog jumped.
    (a) Linking verb   (b) transitive verb
    (c) intransitive verb   (d) None of these
    (e) All of these

9. Ankit opened the door.
    (a) Intransitive verb   (b) Transitive verb
    (c) Linking verb   (d) None of these
    (e) All of these

Read the sentences carefully and find out what is used Infinitive, Gerund or Participle.

10. I have heard this.
    (a) Participle   (b) Infinitive
    (c) Gerund   (d) None of these
    (e) All of these

11. Help the poor and needy.
    (a) Participle   (b) Gerund
    (c) Infinitive   (d) None of these
    (e) All of these

Choose the right kind of Adverb Clauses used in the sentences.

12. Where there is will, there is a way.
    (a) Adverb clauses of condition   (b) Adverb clause of reason
    (c) Adverb clause of place   (d) None of these
    (e) Adverb clause of result

13. I am Glad that she has got promotion.
    (a) Adverb clause of reason   (b) Adverb clause of place
    (c) Adverb clause of condition   (d) None of these
    (e) Adverb clause of concession

14. The want to buy a house where there is a good school.
    (a) Adverb clause of reason   (b) Adverb clause of place
    (c) Adverb clause of condition   (d) None of these
    (e) Adverb clause of manner

Fill in the blanks with Passive form of the verbs :

15. A map………………by you (draw).
    (a) drew   (b) were drawn
    (c) was drawn   (d) drawing
    (e) None of these

16. The beggar………………at by him. (laugh)
    (a) will be laughed   (b) is laughed
    (c) laughed   (d) was laughed
    (e) is laughing

17. The cricket match………………by him. (play)
    (a) had played   (b) were played
    (c) played   (d) will have been played
    (e) is playing

Complete the blanks in the following sentences with appropriate modal verbs :

18. ………………I call John just now for he is coming tomorrow to visit me.
    (a) must   (b) need
    (c) could   (d) ought to
    (e) would

19. Jyoti asked me if I………………like to come to the party too.
   (a) could   (b) would
   (c) might   (d) will
   (e) may

20. Tarun………………be waiting for us at the other entrance.
   (a) could   (b) would
   (c) should   (d) shall
   (e) can

21. $\sqrt[3]{-125}$ is equal to
   (a) -5   (b) 5
   (c) $5\sqrt{5}$ (d) $-5\sqrt{5}$
   (e) 6

22. If HCF and LCM of the given numbers is 4 and 25 then product of the numbers is
   (a) 50   (b) 25
   (c) 50   (d) 100
   (e) 150

23. Three numbers are in the ratio 1: 2: 3 and their HCF is 12. The number is
   (a) 4, 8, 12   (b) 5, 10, 15
   (c) 10, 20, 30   (d) 12, 24, 36
   (e) None of these

24. The difference between a number and its three fifth is 50. What is the number?
   (a) 25   (b) 100
   (c) 125   (d) 50
   (e) None of these

25. If x = 3 and y = 4 then $x^y - y^x$ is
   (a) 17   (b) 27
   (c) 32   (d) 16
   (e) 28

26. 20. If x + y = 10 and x y = 24 , then x – y is
   (a) 4   (b) 2
   (c) 5   (d) 3
   (e) 6

27. 25. If $9^x = 27$ then x is equal to
   (a) 1/2   (b) 3/2
   (c) 3   (d) 2/3
   (e) 1/3

28. If x = 3 and y = 4 then $x^y - y^x$ is

(a) 17   (b) 27
(c) 32   (d) 16
(e) 62

29. If A : B = 3 : 4 and B : C = 5 : 6 then A and C is

(a) 5:9   (b) 3:4
(c) 1:2   (d) 5:8
(e) 8:10

30. The milk and water ratio in 16 litre mixture is 5 : 3 then amount of milk is

(a) 2 litres   (b) 10 litres
(c) 6 litres   (d) 8 litres
(e) 50 litres

31. The simple interest on Rs 10000 is $2\frac{1}{2}$ years at 4 % per annum is Rs.

(a) 1000   (b) 8000
(c) 1200   (d) 1500
(e) none of these

32. The average salary of 30 workers in a factory is Rs 5000 per month. If the salary of the manager is included. The average salary comes out to be Rs 5500. The salary of the manager is Rs.

(a) 20, 500   (b) 20, 000
(c) 15000   (d) 22500
(e) 2300

33 The angle subtended at a point is equal to

(a) 0°   (b) 90°
(c) 180°   (d) 360°
(e) 45^0

34. The sum of the adjacent angles in the parallelogram is

(a) 90°   (b) 60°
(c) 180°   (d) 360°
(e) 0^0

35. The sum of interior and exterior angle of a polygon is

(a) 180°   (b) 270°
(c) 360°   (d) 90°
(e) 40^0

36. The sum of exterior angle of a triangle is
    (a) 180°   (b) 270°
    (c) 360°   (d) 540°
    (e) 190⁰

37. The number of vertices in the cuboid are
    (a) 12   (b) 8
    (c) 6   (d) 5
    (e) 10

38. The ratio of the area of square to that of square drawn on its diagonal is
    (a) 1 : 1   (b) 1 : 2
    (c) 1 : 3   (d) 1 : 4
    (e) 1 : 5

39. If area of 4 walls of the hall whose breadth is 15 m and height is 8 m is 512 m². then the length of the hall is
    (a) 14 m   (b) 16 m
    (c) 10 m   (d) 12 m
    (e) 18 m

40. Three metal cubes of volume 125 cm³, 64 cm³ and 27 cm³ are melted to form a new cube then edge of new cube formed is
    (a) 12 cm   (b) 6 cm
    (c) 10 cm   (d) 15 cm
    (e) 18 cm

41. Time period of simple pendulum depends on
    (a) Mass   (b) Material
    (c) Size   (d) Length
    (e) Hour

42. In a distance-time graph a line parallel to time axis (x-axis) represents
    (a) Uniform motion   (b) Body at rest
    (c) Non- uniform motion   (d) Uniform speed
    (e) None of these

43. Cyclones causes due to
    (a) Low pressure   (b) High pressure
    (c) Height of the place   (d) Melting of Icebergs
    (e) None of these

44. The process in which solids are directly converted into gaseous state is called
    (a) Vaporization   (b) Sublimation
    (c) Condensation   (d) Solidification
    (e) None of these

45. When the moon comes in between the sun and the Earth than it is
    (b) Lunar eclipse   (b) Solar eclipse
    (c) No eclipse   (d) Change season
    (e) None of these
46. The image which can be focused on the screen is called _____ image
    (a) Virtual   (b) Real
    (c) Erect   (d) Enlarged
    (e) None of these
47. A fuse wire should have
    (a) A low melting point   (b) High melting point
    (c) Very high melting point   (d) None of these
    (e) None of these
48. A kilowatt- hour is a unit of
    (b) Power   (b) Energy
    (c) Current   (d) Voltage
    (e) Coulamb
49. Physical change is :
    (a) Temporary and reversible   (b) Temporary and irreversible
    (c) Temporary and permanent   (d) Depends on medium
    (e) None of these
50. Which of the following equations represents a displacement reaction ?
    (a) $2H_2 + O_2 \rightarrow 2H_2O$ (b) $N_2 + 3H_2 \rightarrow 2NH_3$
    (c) $2H_2O \rightarrow 2H_2 + O_2$ (d) $Mg + H_2O \rightarrow MgO + H_2$
    (e) None of these
51. Souring agent for pickles :
    (a) Tartaric acid   (b) Citric acid
    (c) Sulphuric acid   (d) Nitric acid
    (e) All of these
52. Soluble bases are called :
    (a) Compound   (b) Elements
    (c) Alkalis   (d) Basic Salt
    (e) All of these
53. Pure gold is said to be :
    (a) 22 Carats   (b) 23 Carats
    (c) 25 Carats   (d) 24 Carats
    (e) 20 Carats
54. The boiling point of water varies with :
    (a) Temperature   (b) Pressure
    (c) Volume   (d) Density
    (e) None of these

55. How is the oxygen of Air Renewed :
    (a) Respiration (b) Breathing
    (c) Photosynthesis (d) Preciptation
    (e) None of these

56. Number of chromosomes in each cell of human is :
    (a) 16 (b) 46
    (c) 26 (d) 56
    (e) 64

57. The outer most non-living part of plant cell.
    (a) Tonoplast (b) Chloroplast
    (c) Cell-wall (d) Cell-membrane
    (e) None of these

58. If Respiration : Oxygen, Photosynthesis : ?
    (a) Nitrogen (b) Water
    (c) Carbondioxide (d) Hydrogen
    (e) Carbon-monoxide

59. A cell which transmit messages from all parts of the body to the brain and spine :
    (a) Blood (b) Lymph
    (c) WBCs (d) Neuron
    (e) RBC

60. Woody stems have minute openings for transpiration which called :
    (a) Cuticle (b) Veins
    (c) Stem (d) Lenticels
    (e) Toots

61. Akbar, the greatest of the Mughal Emperors of India, reigned from :
    (a) 1656-1680 (b) 1550-1605
    (c) 1566-1605 (d) 1500-1600
    (e) 1550-1750

62. Mamluk means :
    (a) Lord (b) King
    (c) Slave (d) Son
    (e) Prince

63. Sikandar Lodhi founded the city of :
    (a) Agra (b) Siri
    (c) Jaunpur (d) Daulatabad
    (e) Mathura

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64. Who established the Vijay Nagar Empire ?
    (a) Hari Hara and Bukka   (b) Krishna-Devaraya
    (c) Saluva Narasimha   (d) Sadasivaraya
    (e) Krishnaraja Wodeyar

65. The war which led to the establishment of Mughal Empire in India :
    (a) I Panipat War   (b) II Panipat War
    (c) III Panipat War   (d) Kanwa War
    (e) Afghan War

66. Whom did Babar fought in the first Battle of Panipat ?
    (a) Bahlal Lodi   (b) Muhammad Lodi
    (c) Ibrahim Lodi   (d) Sikander Lodi
    (e) Alam Shah

67. Which societal condition was basic to the development of Greek Philosophy and Renaissance Art ?
    (a) Rigid Social Classes   (b) Emphasis on Individualism
    (c) Religious Uniformity   (d) Mass Education
    (e) Women Empowerment

68. The Governor of a State is appointed by the President on the advice of the
    (a) Prime Minister of India   (b) Vice- President of India
    (c) Chief Minister of that state (d) Chief Justice of India
    (e) Attorney General

69. For what period does the Vice President of India hold office?
    (a) 5 years   (b) Till the age of 65 years
    (c) 6 years   (d) 2 years
    (e) 4 years

70. The impeachment or removal of the president of India is made by
    (a) The Parliament   (b) The Chief Justice of India
    (c) All the Governors of state   (d) CAG
    (e) Prime Minister

71. Which factor is necessary for the development of democratic institutions?
    (a) Strong military forces   (b) Respect for individual rights
    (c) A one-party system   (d) An agricultural economy
    (e) All of these

72. A dispute regarding the election of the President is referred to the:-
    (a) The Election commission of India   (b) The Parliament
    (c) The Supreme Court   (d) The Vice President
    (e) High Court

73. A dowry
    (a) is compensation to the bride's family for losing a daughter
    (b) is the transfer of money or wealth by the groom's family for the loss of his labour
    (c) is wealth received by the bride from her husband's family

(d) is compensation for taking responsibility for the bride where women are regarded as economic burden

(e) All of these

74. Exogamy is

(a) a rule stipulating that one must marry outside one's own group.

(b) a rule stipulating one must marry inside one's own group

(c) a rule observed only by the Nayar

(d) considered incestuous in some societies

(e) None of these

75. According to the Earth Science Reference Tables, the equatorial radius of the Earth is approximately

(a) 637 km
(b) 6370 km
(c) 63700 km
(d) 637000 km
(e) None of these

76. The latitude of a point in the Northern Hemisphere may be determined by measuring the

(a) apparent diameter of Polaris
(b) altitude of Polaris
(c) distance to the Sun
(d) apparent diameter of the Sun
(e) None of these

77. Oceans cover approximately _____ percent of the Earth's surface.

(a) 30
(b) 50
(c) 70
(d) 90
(e) 80

78. A negative impact of the use of modern technology is that

(a) levels of air and water pollution often increase

(b) economic opportunities are frequently limited

(c) contacts with other cultures decrease

(d) international trade is limited

(e) traditional life

79. What is the fertile area where many crops are grown in Argentina?

(a) Pampas
(b) Amazon
(c) Llanos
(d) Highlands
(e) Taiga

80. What is the name of the Mesozoic supercontinent that consisted of all of the present continents?

(a) Eurasia
(b) Laurasia
(c) Pangaea
(d) Gondwanaland
(e) Angaraland

81. Garam Pani sanctuary is located at

(a) Junagarh, Gujarat
(b) Diphu, Assam
(c) Kohima, Nagaland
(d) Gangtok, Sikkim
(e) Simlipal Odisha

82. The highest civilian award given by Government of India
    (a) Ashoka Chakra   (b) Bharat Ratna
    (c) Padmashree   (d) Padmavibhushan
    (e) Padmabhushan
83. Guwahati High Court is the judicature of
    (a) Nagaland   (b) Arunachal Pradesh
    (c) Assam   (d) Manipur
    (e) Sikkim
84. When is "World Wetland Day" ?
    (a) February 2   (b) May 10
    (c) June 11   (d) July 9
    (e) April 11
85. When is "International Womens' Day"?
    (a) January 2   (b) March 8
    (c) March 2   (d) March 22
    (e) February 22
86. Durand Cup is associated with the game of ?
    (a) Cricket   (b) Football
    (c) Hockey   (d) Volleyball
    (e) Rugby
87. According to the World Migration Report, which country topped the list of countries of origin of migrant doctors in OECD countries?
    (a) India   (b) China
    (c) Guyana   (d) Germany
    (e) Philippines
88. The Headquarters of all the Three Armed Forces of India is located at
    (a) New Delhi   (b) Kolkata
    (c) Lucknow   (d) Mumbai
    (e) Pune
89. How many lines does a sonnet have?
    (a) 10   (b) 12
    (c) 14   (d) 13
    (e) 18
90. In which century were Geoffrey Chaucer's Canterbury Tales written?
    (a) 14th   (b) 15th
    (c) 16th   (d) 17th
    (e) 18th
91. In the book' The Lord of the Rings', who or what is Bilbo?
    (a) Dwarf   (b) Wizard
    (c) Hobbit   (d) Troll
    (e) None of these

92. Which among the following languages is not listed under the 8th schedule of Indian constitution
    (a) Santhali   (b) Konkani
    (c) Marathi   (d) Bhojpuri
    (e) Punjabi

93. Using purgatives on a regular basis is harmful to health. Which deficiency does it cause ?
    (a) Iron   (b) Potassium
    (c) Iodine   (d) Chromium
    (e) All of these

94. What colour of caps are worn by the Australian national cricket team?
    (a) Red   (b) Green
    (c) Blue   (d) Azure gray
    (e) Yellow

95. Europe is surrounded by nine sea basins. Which of the following is NOT one of the nine?
    (a) Black Sea   (b) Mediterranean Sea
    (c) Red Sea   (d) White Sea
    (d) None of these

96. Which country on 11 January 2015 announced to host an International Anti-terror Summit in the month of February 2015?
    (a) The United Kingdom   (b) The United States
    (c) France   (d) India
    (e) None of these

97. Recently a telecom company made all the roaming charges free all over India that is
    (a) Airtel   (b) Vodafone
    (c) BSNL   (d) Aircel
    (e) Idea

98. Recently which among the following countries has overtaken India to become the largest contributor of FDI to Nepal ?
    (a) China   (b) Russia
    (c) USA   (d) Sri Lanka
    (e) None of these

99. Which Indian bank on 7 January 2015 launched contactless credit cards and debit cards?
    (a) HDFC Bank   (b) ICICI Bank
    (c) Axis Bank   (d) Citibank
    (e) Federal Bank

100. What is AMCA that was in news in the first week of January 2015?
    (a) It is Advanced Medium Combat Aircraft being built by India and Russia jointly
    (b) It is fifth generation fighter aircraft being built by India indigenously
    (c) It is fifth generation nuclear submarine being built by India and France jointly
    (d) Both (a) and (b)
    (e) None of these

PART B (SUBJECTIVE TYPE)
ESSAY WRITING

Instructions

Essay Should be written in **Ball point pen only either blue or black**.

Essay should be written in the space provided.

Select any one of the given topics and write without exceeding 300 words

1. Write an essay on Leprosy

2. Write an essay on different communicable diseases

Please use this space for rough work