

Talent Search Exam. 2023

for class-VI

Duration:1:30 Hr

Max. Marks 240

INSTRUCTIONS

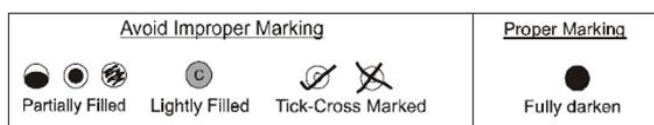
A. General :

1. This booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so. Total Questions to be Attempted 60: **Physics : 10, Chemistry : 10, Biology : 10, Mathematics : 20 & MAT : 10 Questions.**
2. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black & blue ball point pen.
3. Things NOT ALLOWED in EXAM HALL : Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these then keep them at a place specified by invigilator at your own risk.
4. Do not use white-fluid or any other rubbing material on answer sheet. Before handing over the answer sheet to the invigilator, candidate should check that **Roll No, Test code and Book Code** have been filled and marked correctly. Immediately after the prescribed examination time is over, the **Answer sheet is to be returned to the invigilator.**

B. Filling the Answer Sheet :

5. On Side-1 of Answer Sheet write your Name and Roll Number in the respective boxes. Do not write anything on Side-2.
6. **Marking Scheme:**
 - a. If darkened bubble is RIGHT answer : 4 Marks.
 - b. If no bubble is darkened in any question: No Mark.
 - c. If darkened bubble is WRONG answer: –1 Mark (Minus One Mark).
7. Think wisely before darkening bubble as there is negative marking for wrong answer

PROCEDURE OF FILLING UP THE ANSWER IN ANSWER SHEET



Name of the candidate (In Capital Letters)

Roll Number

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I have read all the instruction and shall abide by them.





.....
(Signature of the candidate)

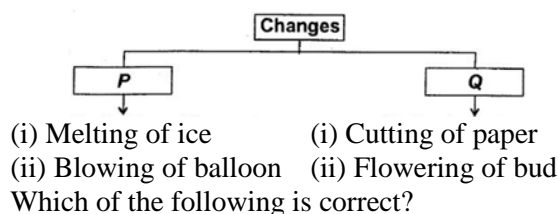
I have verified all the information filled in by the candidate.

.....
(Signature of the Invigilator)

You can never quit. Winners never quit, and quitters never win.

[Science]

1. Which of the following shows no change in direction of the moving body?
(a) Curvilinear motion (b) Oscillatory motion
(c) rectilinear motion (d) Revolution
 2. Length : Metre :: Area :?
(a) m^3 (b) m
(c) m^2 (d) none of these
 3. The motion that is repeated at regular interval of time is
(a) vibratory motion (b) linear motion
(c) random motion (d) none of these
 4. Which one of these is true about motion?
(a) Motion is relative
(b) Motion is not relative
(c) Something is not in motion if its position with respect to the observer changes with time.
(d) Both (a) & (b)
 5. The position of the shadow shifts as the
(a) position of the source shifts
(b) position of the object shifts
(c) position of screen shifts
(d) both (a) & (b)
 6. We can see only those objects which lie in the path of light due to
(a) reflection of light
(b) rectilinear propagation of light
(c) dispersion of light
(d) conversion of light
 7. The angle between an incident ray and the plane mirror is 30° . The total angle between the incident ray and the reflected ray will be
(a) 30° (b) 60°
(c) 90° (d) 120°
 8. Which of the following is not a symbol of a circuit element?
(a)  (b) 
(c)  (d) 
 9. Who invented electric bulb?
(a) Einstein (b) Thomas Alva Edison
(c) Charles Babbage (d) none of these
 10. The complete pathway for the flow of current is called
(a) electric wire (b) electric switch
(c) electric current (d) electric circuit
 11. Which of the following statements is incorrect?
(a) Fibres obtained from plants and animals are termed natural fibres.
(b) Plant fibres when burnt give smell of burning paper
(c) Coir is a coarse fibre extracted from the cotton plant
(d) Clothes made from cotton fibres can easily absorb sweat
 12. Cotton bolls are
(a) fruits of cotton plant
(b) roots of cotton plant
(c) leaves of cotton plant
(d) branches of cotton plant
 13. From the above discussion the conclusion is, we should_____.
(a) Reduce our dependence on renewable resources
(b) Reduce our dependence on non-renewable resources
(c) Increase our dependence on renewable resources
(d) Both (b) & (c) are correct
 14. The substance which is insoluble in water is
(a) sodium chloride (b) cane sugar
(c) sawdust (d) lemon juice
 15. Match column I with column II and select the correct option from the given codes
- | Column- I
(Mixture) | | Column II
(Separation method) | |
|------------------------|-----------------------|----------------------------------|---------------------|
| P | Iron nails in scrap | (i) | Sieving |
| Q | Wheat grains in flour | (ii) | Separating funnel |
| R | Water in kerosene oil | (iii) | Evaporation |
| S | Common salt in water | (iv) | Magnetic separation |
| | | (v) | Boiling |
- (a) P-(iv), Q-(i), R-(ii), S-(iii)
 - (b) P-(iii), Q-(ii), R-(i), S-(v)
 - (c) P-(v), Q-(iii), R-(ii), S-(i)
 - (d) P-(iv), Q-(iii), R-(i), S-(v)
 16. Identify the process/property from their descriptions.
 1. Settling of heavier component in a mixture after water is added
 2. No more salt can be dissolved in the salt solution
 (a) Sedimentation, Saturation
 (b) Filtration, Condensation
 (c) Decantation, Insolubility
 (d) Saturation, Filtration
 17. Reema's mother has done some preparation for her 'Birthday Party'. Which of the following changes can be reversed?
(a) baking cake in an oven
(b) burning of a candle
(c) rolling a ball of dough and baking it to make kulcha
(d) blowing of a balloon
 18. Study the flowchart carefully:

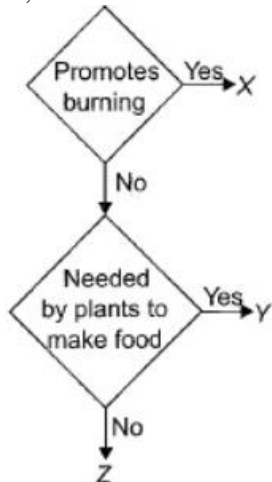


	P	Q
(a)	Reversible changes	Reversible changes
(b)	Irreversible changes	Reversible changes
(c)	Irreversible changes	Irreversible changes
(d)	Reversible changes	Irreversible changes

19. Which of the following day is celebrated as world water day every year?

- (a) 22 August (b) 22 March
(c) 22 February (d) 22 April

20. Refer to the given flow chart and identify the components X, Y and Z of air?



- (a) X-Nitrogen, Y-Oxygen
(b) Y-Carbon dioxide, Z-Oxygen
(c) X-Oxygen, Z-Nitrogen
(d) Y-Nitrogen, Z-Carbon dioxide

21. Given below is a list of few animals.

- (i) Crow (ii) Lion
(iii) Tiger (iv) Spider
(v) Lizard (vi) Cow
(vii) Human being (viii) Goat
(ix) Bear

Select the option that correctly identifies them as Herbivore (P), Carnivore (Q) and Omnivore (R)

	P	Q	R
(a)	(vi), (vii)	(ii), (iii), (iv), (ix)	(i), (viii), (v)
(b)	(i), (vi), (viii)	(ii), (iii), (v), (ix)	(iv), (vii)
(c)	(i), (vi), (vii), (ix)	(ii), (iv)	(iii), (v), (viii)
(d)	(vi), (viii)	(ii), (iii), (iv), (v)	(i), (vii), (ix)

22. Honey is given to small children when they suffer from common cold because it is a source of protective nutrients like

- (a) vitamins and minerals
(b) fats and carbohydrates
(c) water and roughage
(d) proteins and amino acids

23. Refer to the given table and select the correct option.

Vitamin	Deficiency	Source
A	W	Papaya, carrot
D	Rickets (in kids)	X
Y	Excessive bleeding	Green leaf vegetables
E	Z	Almonds, peanuts

	W	X	Y	Z
(a)	Night blindness	Sunlight	K	Nerve disorder, muscle weakness
(b)	Night blindness	Butter	B ₃	Anaemia, blindness
(c)	Beri beri	Vegetable oil	K	Pellagra
(d)	Scurvy	Citrus fruits	B ₁	Sores in mouth

24. Match the items given in column A with those in column B.

Column-A

Column -B

I. Amla, lemon

(a) Protein

II. Soyabean

(b) Iodine

III. Obesity

(c) Vitamin C

IV. Goitre

(d) Overeating

(a) I-(c), II-(a), III-(d), IV-(b)

(b) I-(d), II-(a), III-(b), IV-(c)

(c) I-(a), II-(c), III-(b), IV-(d)

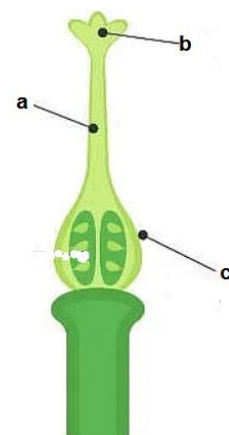
(d) I-(b), II-(a), III-(d), IV-(c)

25. Read the following statements and select the option that correctly identifies true (T) and false (F) ones.

- (i) The number of petals and sepals in a flower is always equal
(ii) Roots absorb water and minerals from the soil
(iii) Stamens form the female reproductive part of a flower
(iv) Petiole is the short stalk that attaches leaf to the stem.
(v) Calyx and corolla form the essential whorls of the flower.

	(i)	(ii)	(iii)	(iv)	(v)
(a)	T	T	F	T	F
(b)	F	T	F	T	F
(c)	F	T	T	T	F
(d)	T	T	F	F	T

26. The given figure shows the different parts of a pistil. Select the correct match of the parts labeled as a, b, and c.



	A	B	C
(a)	Stigma	Style	Ovary
(b)	Style	Stigma	Ovary
(c)	Style	Ovary	Ovule
(d)	Stigma	Style	Ovule

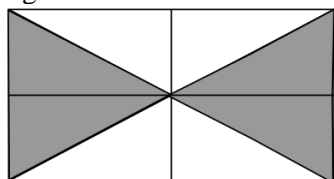
27. Which of the following organisms does not have both muscles and skeleton for movement?

- (a) Dog (b) Snail
(c) Earthworm (d) Human being

28. Which of these adaptations are for food?
 (a) Gills in fish
 (b) Spines in cacti
 (c) Long neck in giraffe
 (d) Long legs in camel
29. Sunken stomata are present in:
 (a) Hydrophytes (b) Epiphytes
 (c) Xerophytes (d) Mesophytes

[Mathematics]

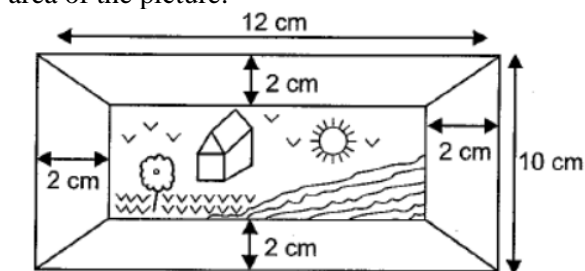
31. Any three non-collinear points when joined together form a _____.
 (a) Triangle (b) Quadrilateral
 (c) Rhombus (d) Square
32. Number of diagonals in a octagon is _____.
 (a) 5 (b) 17
 (c) 8 (d) 20
33. The value of $100 + (-75) + (-89) + (69)$ is _____.
 (a) 169 (b) 5
 (c) 164 (d) -5
34. Find an integer 'P' such that $P + (-9) = 0$.
 (a) 8 (b) 0
 (c) 9 (d) -9
35. The additive inverse of $6 - (-4)$ is
 (a) 2 (b) -10
 (c) 10 (d) none of these
36. What should be subtracted from $\frac{7}{9}$ to make it $\frac{2}{9}$?
 (a) $\frac{2}{9}$ (b) $\frac{3}{9}$
 (c) $\frac{4}{9}$ (d) $\frac{5}{9}$
37. Which fraction describes the shaded regions in the following figure?



- (a) $\frac{1}{8}$ (b) $\frac{4}{8}$
 (c) $\frac{3}{8}$ (d) $\frac{5}{8}$
38. Neha bought a notebook for Rs. $7\frac{3}{4}$ and a pen for Rs. $9\frac{2}{5}$. How much money should she pay to the shopkeeper?
 (a) Rs. $16\frac{1}{20}$ (b) Rs. $16\frac{3}{20}$
 (c) Rs. $17\frac{1}{10}$ (d) Rs. $17\frac{3}{20}$

















30. Which of the following wastes cannot be decomposed by bacteria to form compost?
 (a) Kitchen wastes
 (b) Plastic and polythene bags
 (c) Dead plants
 (d) Bodies of insects living in the soil

39. The chord of a circle which passes through the centre is _____ the radius.
 (a) Thrice (b) Double
 (c) Half (d) Equal to
40. $2\frac{1}{25}$ expressed as a decimal is _____.
 (a) 1.25 (b) 2.4
 (c) 2.5 (d) 2.04
41. Subtract 1.412 km from 3.69 km.
 (a) 1.728 km (b) 2.278 km
 (c) 2.728 km (d) 1.278 km
42. Mr Sharma spent Rs. 1287.90 on clothings, Rs. 389.96 on travelling and Rs. 1280.71 for hotel accommodation. If he has Rs. 5800 left with him, how much money did he have in the beginning?
 (a) Rs. 5875.75 (b) Rs. 8758.57
 (c) Rs. 7858.58 (d) Rs. 8578.57
43. The presentation of data in the form of pictures is called _____.
 (a) Bar graph (b) Pictograph
 (c) Tally marks (d) None of these
44. The population of a town is 20,000. If 7000 are men and 9200 are women, find the number of children?
 (a) 13,000 (b) 3,880
 (c) 13,800 (d) 3800
45. Which of the following will not represent zero?
 (a) $113 \times 14 \times 0$ (b) 0×0
 (c) $0 \div 2$ (d) $12 \div 0$
46. Garima was shopping for a new hand bag. The one she wanted to buy cost Rs. 428.98. The sales person informed her that the same hand bag would be on sale in the following week for Rs. 399.99. How much money would she save by waiting until the hand bag went on sale?
 (a) Rs. 28.99 (b) Rs. 29.01
 (c) Rs. 128.99 (d) Rs. 39.09
47. The diagram below shows a framed picture. Find the area of the picture.



- (a) 48 cm^2 (b) 39 cm^2
 (c) 92 cm^2 (d) 120 cm^2

Direction (Q. No. 48-50): Following is the pictograph of different kinds of trees in a garden.

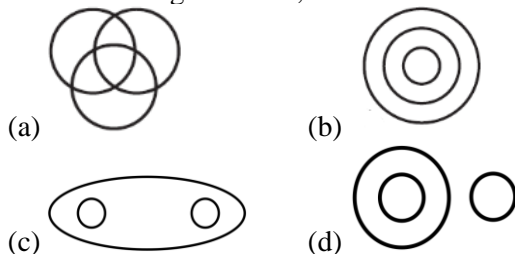
Types of trees	Number of trees
Mongo trees	       
Coconut trees	  
Banana trees	   
Each  represents 10 trees	

48. Find the total number of trees in the garden.
 (a) 120 (b) 140
 (c) 130 (d) 150
49. The number of mango trees is _____ times the number of banana trees.
 (a) Ten (b) Two
 (c) Four (d) Three
50. What is the difference between the number of mango trees and the number of banana trees?
 (a) 40 (b) 30
 (c) 80 (d) 60

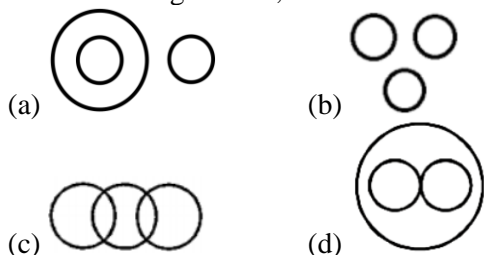
[MAT]

Direction: (Q. 51- 52): In each of the following question choose the missing number to complete the series.

51. 3, 9, 27, 81, ?
 (a) 324 (b) 243
 (c) 210 (d) 162
52. 10, 18, 28, 40, 54, 70, ?
 (a) 85 (b) 86
 (c) 87 (d) 88
53. If 'sky' is called 'star', 'star' is called 'cloud', 'cloud' is called 'earth', 'earth' is called 'tree' and 'tree' is called 'book', then where do we live on?
 (a) book (b) sky
 (c) star (d) tree
54. If BEAR is coded as EHDU, then in the same way TIGER is coded as _____.
 (a) VMKIV (b) WLJHU
 (c) UKIGT (d) UJHFS
55. A man is facing North-West. He turns 90° in the clockwise direction and then 135° in the anticlockwise direction. Which direction is he facing now?
 (a) East (b) West
 (c) North (d) South
56. Which of the following diagrams indicates the best relation amongst teacher, Writer and Musician?



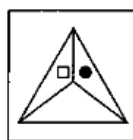
57. Which of the following diagrams indicates the best relation amongst Earth, Sea and Sun?



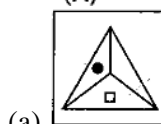
58. P, Q, R, S, T and U are sitting in a row. T and U are in the centre, Q and R are at the ends. S is sitting to the immediate left of Q. Who is to the immediate right of R?
 (a) Q (b) P
 (c) T (d) U

Direction (Q. no. 59-60): In each of the following questions, choose the correct mirror image of the given figure (X) from amongst the four options (a), (b), (c) and (d) given along with it, if mirror is placed vertically right to figure (X).

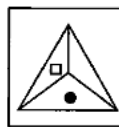
59.



(X)



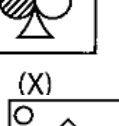
(a)



(b)

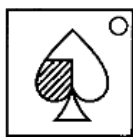


(c)

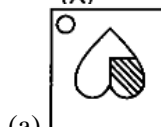


(d)

60.



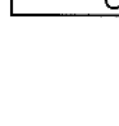
(X)



(a)



(b)



(c)



(d)

[For Rough Work]

[For Rough Work]

[For Rough Work]