

Talent Search Exam. 2023

for class-V

Duration:1:30Hr

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

Avoid Improper Marking				Proper Marking	
					
Partially Filled	Lightly Filled	Tick-Cross Marked		Fully darken	

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)

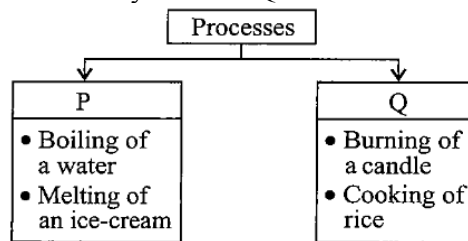
You can never quit. Winners never quit, and quitters never win.

[Science]

1. The length between the great toe and end point of the heel is
(a) foot span (b) cubit
(c) hand span (d) arm length
2. A person moves 100m east, then 50 m west and finally 20 m south. How much distance he travelled?
(a) 120 m (b) 170 m
(c) 100 m (d) 50 m
3. A simple pendulum takes 32 s to complete 20 oscillations. What is the time period of the pendulum?
(a) 8 s (b) 16 s
(c) 0.8 s (d) 1.6 s
4. Earthquakes are measured on
(a) Ruler (b) Barometer
(c) Richter scale (d) All of these
5. The upper layer of the earth is made of
(a) Core (b) Tectonic plates
(c) Magma (d) Fire
6. People studying earthquakes are called:
(a) Seismologists (b) Doctors
(c) Astrologers (d) All of these
7. The shaking of the earth is called:
(a) Wave (b) Cyclone
(c) Earthquake (d) Storm
8. For every action there is an equal and opposite reaction is which of Newton's Laws of Motion?
(a) First (b) Second
(c) Third (d) Four
9. The tendency of an object to stay in motion or at rest until a force acts upon it is _____.
(a) frame of reference (b) movement
(c) relation (d) inertia
10. What is mass?
(a) the amount of space that an object takes up
(b) the amount of matter in a solid, liquid, or gas
(c) the material through which an electrical charge can pass
(d) a strong resistor that can stop most electrical charges
11. Changing of a solid into gas on heating is called
(a) Freezing (b) Melting
(c) Condensation (d) Sublimation
12. Which process is involved in the drying of a wet floor?
(a) Evaporation (b) Contraction
(c) Condensation (d) Sublimation
13. Which of the following does not have luster?
(a) Gold ring (b) Copper vessel
(c) Silver plate (d) Wooden table
14. Select the correct match
(a) Silk cloth - Rough
(b) Wood - Translucent
(c) Eraser - Lustrous
(d) Frosted glass - Semi-transparent
15. In carbonated drinks, the solute is _____ and solvent is _____.
(a) Liquid, Gas (b) Liquid, Liquid
(c) Gas, Solid (d) Gas, Liquid
16. Which of the following is an example of immiscible liquids?
(a) Oil in water (b) Vinegar in water
(c) Ink in water (d) Lemon juice in water
17. A substance 'X' does not have a fixed volume and it occupies the total space of the container. It can be compressed. What is 'X' likely to be?
(a) Solid (b) Gas
(c) Liquid (d) All of these
18. Select the incorrect match among the following
(i) Melting of chocolate-Physical change
(ii) Cooking of food – Chemical change
(iii) Melting of ice-Chemical change
(iv) Rusting of iron – Physical change
(a) (i) and (iv) only (b) (iii) and (iv) only
(c) (i) and (ii) only (d) (i), (iii) and (iv) only
19. Match column-I with column-II and select the correct option from the given codes.

Column-I	Column-II
P. Book	(i) Transparent
Q. Aluminium	(ii) Magnetic
R. Air	(iii) Conductor
S. Iron	(iv) Non-lustrous

(a) P – (iv), Q – (ii) R – (iii), S – (i)
 (b) P – (i), Q – (iv) R – (iii), S – (ii)
 (c) P – (iv), Q – (iii) R – (i), S – (ii)
 (d) P – (iv), Q – (i) R – (iii), S – (ii)
20. Mohan grouped a few processes under two different categories 'P' and 'Q' as shown in the given flow chart. Identify 'P' and 'Q'.



- | P | Q |
|-------------------------|---------------------|
| (a) Physical change | Chemical change |
| (b) Chemical change | Physical change |
| (c) Periodic change | Non periodic change |
| (d) Irreversible change | Reversible change |
21. Select the incorrect statement.
 - During breathing oxygen is taken in and carbon dioxide is given out.
 - Amphibians and reptiles breathe through moist skin.
 - Swallow is a flightless bird.
 - Locusts are most destructive migratory insects.

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

22. Select the odd one out on the basis of eating habits.

- (a) Human (b) Bear
(c) Chimpanzee (d) Snake

23. Goitre is caused by the deficiency of

- (a) Calcium (b) Iodine
(c) Iron (d) Vitamin A

24. Which of the following is a non-communicable disease?

- (a) Chicken pox (b) Beriberi
(c) Common cold (d) Measles

25. Match column-I with column-II and select the correct option from the given codes.

Column-I

Column-II

P. Pectoral girdle

(i) 22 bones

Q. Skull

(ii) 24 bones

R. Pelvic girdle

(iii) Shoulder

S. Rib cage

(iv) Hip

(a) P – (iii), Q – (i) R – (iv), S – (ii)

(b) P – (iv), Q – (i) R – (iii), S – (ii)

(c) P – (iii), Q – (ii) R – (iv), S – (i)

(d) P – (iv), Q – (ii) R – (iii), S – (i)

26. Which of the following is used to store grains?

- (a) Jute bags (b) Silos
(c) Metallic bins (d) All of these

31. Hindu Arabic numeral for DCLXXIV is ____.

- (a) 684 (b) 674
(c) 604 (d) 584

32. Successor of 3008999 is ____.

- (a) 3008989 (b) 3009000
(c) 30008998 (d) 30009001

33. Predecessor of CMLXIX is ____.

- (a) 870 (b) 970
(c) 968 (d) 869

34. Find the missing number in the box.

$$7\frac{2}{5} = \frac{?}{5}$$

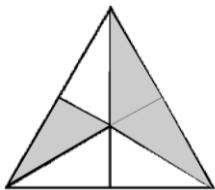
- (a) 37 (b) 42
(c) 40 (d) 38

35. Compare and fill the box.

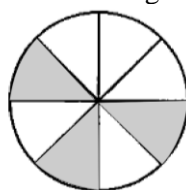
$$7\frac{1}{5} + 3\frac{1}{4} \square 2\frac{1}{4} + 3\frac{1}{5}$$

- (a) > (b) <
(c) = (d) Can't be determined

36. Find the sum of shaded fractions of the given figures.



- (a) $\frac{1}{8}$
(c) $\frac{7}{8}$



- (b) $\frac{7}{9}$
(d) $\frac{3}{8}$

27. Select the option that is not true regarding the type of seed dispersal shown in the figure.



- (a) Seeds dispersed by this method are small and light in weight.
(b) This type of seed dispersal is found in cotton and dandelion
(c) Seeds dispersed by this method may possess hair or wing like structures.
(d) This type of seed dispersal cannot carry the seeds to far off places.

28. Forest provides us

- (a) Food (b) Pure air
(c) Medicine (d) All of these

29. Earthquakes are measured by an instrument called

- (a) Richter scale (b) Seismogram
(c) Seismograph (d) None of these

30. Which of the following is not responsible for soil erosion?

- (a) Afforestation (b) Floods
(c) Overgrazing (d) Strong wind

[Mathematics]

37. Which fraction is less than $\frac{8}{11}$ but greater than $\frac{4}{11}$?

- (a) $\frac{9}{11}$ (b) $\frac{6}{11}$
(c) $\frac{3}{11}$ (d) $\frac{2}{11}$

38. Express $7\frac{5}{6}$ hrs in seconds.

- (a) 28200 seconds (b) 25400 seconds
(c) 30400 seconds (d) 27150 seconds

39. The cost of a bag is Rs. 750 and cost of a jacket is Rs. 1220 if Manish bought 5 bags and 8 jackets, then find the total money paid by him.

- (a) Rs. 14860 (b) Rs. 13510
(c) Rs. 11580 (d) Rs. 12005

40. Neha deposit Rs. 1,05,618 on Monday. If she withdraws Rs. 50,680 on Tuesday and then deposits Rs. 18,620 on Wednesday, then find the total amount in her account now.

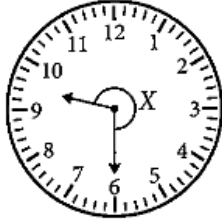
- (a) Rs. 68950 (b) Rs. 73558
(c) Rs. 72180 (d) Rs. 75160

41. How many angles in the given figure are less than a right angle?

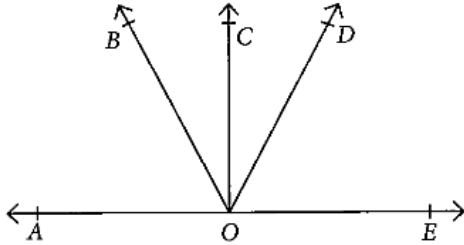


- (a) 0 (b) 1
(c) 2 (d) 4

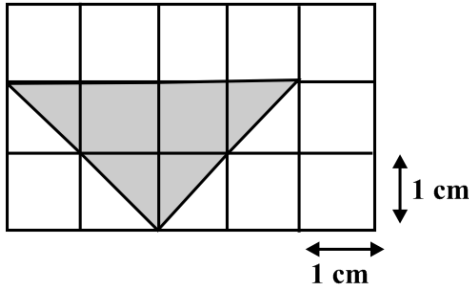
42. The angle X in the given clock is a/an _____ angle.



- (a) Obtuse (b) Reflex
(c) Acute (d) Straight
43. In the given figure which angle is less than a right angle?



- (a) $\angle AOD$ (b) $\angle BOE$
(c) $\angle BOD$ (d) $\angle AOC$
44. What is the shaded area of the given figure?



- (a) 4 sq. cm (b) 8 sq. cm
(c) 7 sq. cm (d) 6 sq. cm
45. Length of a rectangle is thrice its breadth. If its length is 96 cm, then find its area.
- (a) 3186 sq. cm (b) 3072 sq. cm
(c) 3224 sq. cm (d) 3196 sq. cm




























46. Find the number of prime factors of 240.

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

47. Find the H.C.F. of 145 and 245.

(a) 8 (b) 6
(c) 5 (d) 49

Direction (Q. No. 48-50): The given pictograph shows the number of toy bikes some children have. Study it carefully and answer the following questions.

Number of toy bikes	
Sarthak	     
Kartik	       
Maira	    
Mohit	   
Ronak	  
Each  represents for 5 toy bikes	

48. Ronak has _____ less toy bikes than Kartik.

(a) 25 (b) 20
(c) 15 (d) 30

49. Find the fraction of number of toy bikes Maira had to the number of toy bikes Sarthak had.

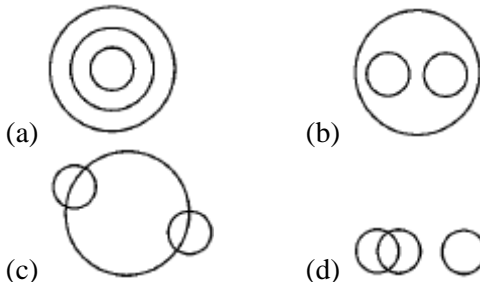
(a) $\frac{5}{7}$ (b) $\frac{3}{4}$
(c) $\frac{5}{6}$ (d) $\frac{3}{5}$

50. Who has the least number of toy bikes?

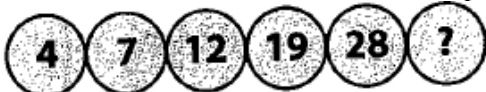
(a) Sarthak (b) Ronak
(c) Kartik (d) Mohit

[Mat]

51. Which one of the following Venn diagrams correctly represents the relationship amongst "Week, Month and Year"?



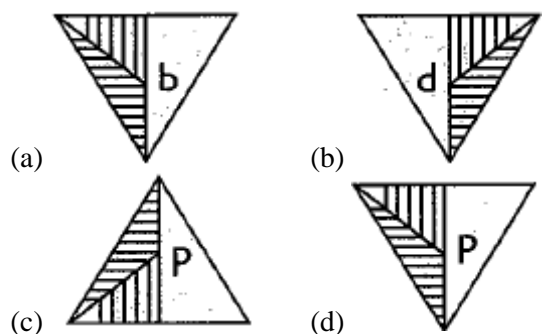
52. What is the next number in the number pattern?



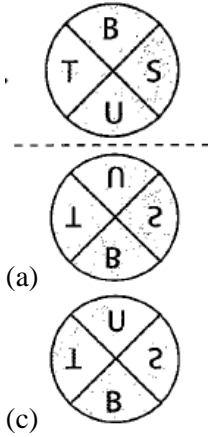
- (a) 30 (b) 36
(c) 39 (d) 49
53. Find the odd one out.
- (a) MOPR (b) KMNP
(c) RSTV (d) BDEG

Direction (Q. No. 54-55): Find the water image of each of the given figure along the dotted line.

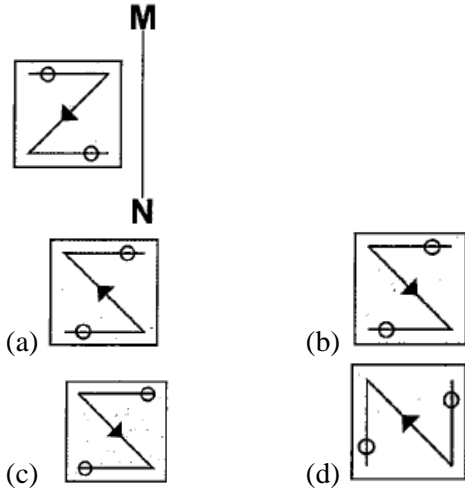
- 54.



55.



56. Find the mirror image of the figure (X), when mirror is placed along MN.



57. After walking 6 km, I turned to the right and then walked 2 km. After then I turned to the left and walked 10 km. In the end, I was moving towards the North. In which direction did I start my journey?

- (a) North
- (b) South
- (c) East
- (d) West

58. There are 15 students in a row. Sahil is third from the left end and Dhruv is eighth from the right end. How many students are sitting between Sahil and Dhruv?

- (a) 4
- (b) 5
- (c) 6
- (d) 8

59. If TODAY is coded as 58034 and MONK as 6892, then how will MONDAY be coded?

- (a) 683940
- (b) 689034
- (c) 089634
- (d) 689340

60. If 'paper' means 'wood', 'wood' means 'straw', 'straw' means 'grass', 'grass' means 'rubber' and 'rubber' means 'cloth', then by which furniture is made up of?

- (a) wood
- (b) straw
- (c) grass
- (d) paper

[For Rough Work]

[For Rough Work]

[For Rough Work]