

Grade 7

Quantity : 700

SARVHITKARI PARKASHAN SOCIETY
SELECTION TEST
FOR
PUNJAB SUPER 100

Ignited Minds is an initiative by IITians, ISROites, etc., to provide innovative and noble programmes for school students in order to make their fundamentals strong and provide them exposure to all known professions from an early stage. It runs programme for institutions, industries and society. In Punjab, it runs its flagship programme Punjab Super 100 for the school students of Punjab.

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INSTRUCTIONS :

1. This test is for students who are presently in grade 10.
2. This test has 3 sections. First section consists of 30 questions from English and Reasoning. Second section consists of 30 questions from Mathematics and last section consists of 30 questions from Science.
3. Each right answer has 2 marks.
4. Each wrong answer will lead to deduct 1 mark from total marks obtained.
5. Mark your responses with blue ball pen in the OMR sheet provided along with this question paper.
6. Attempt all questions accordingly.



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ENGLISH AND REASONING**Q. 1-30**

1. **He is pressed for me _____ he got up late today.**
 A) Apostrophe B) Semi-colon C) Dash D) Hyphen
2. **Choose type of the given sentence. Will you visit library today ?**
 A) Assertive B) Imperative C) Interrogative D) Exclamatory
3. **_____ I seen you before ? Fill the correct word.**
 A) Has B) Am C) Have D) Does
4. **If he is planning to participate in the marathon, he _____ practice regularly.**
 A) should B) shall C) can D) is
5. **Choose the incorrect sentence.**
 A) Television is a wonderful source of information.
 B) Raman is playing football.
 C) Some children is playing in the ground.
 D) None of the above.
6. **Choose the article/articles to complete the sentence; When do you get ___ home? I will be _____ waiting. We will go to a night party together.**
 A) a, a B) the, no article required
 C) the, the D) no article required, no article required
7. **Read the following news items and choose the appropriate headline; All flights from Delhi in the morning were delayed by more than two hours due to the heavy fog.**
 A) Fog, mist and Snow B) Heavy fog delays air-traffic
 C) Flights cancelled D) None of these
8. **Choose the best option to complete the dialogue. Tourist: Can you direct me to the Gurudwara ?**
 Boy : _____.
 A) No. I don't know who you are.
 B) Sorry, I won't. I won't help strangers
 C) Certainly. Go down the lane and turn right.
 D) None of these

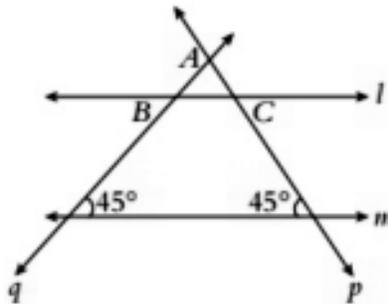
9. **Keshav speaks English fluently but I cannot follow _____ accent.**
A) my B) its C) his D) None of these
10. **Mr. Varun was demoted. On hearing this, he was _____.**
A) happy B) satisfied C) sad D) None of these
11. **Mom lit the candle and the _____ filled the room.**
A) scent B) sent C) cent D) None of these
12. **Spot the error in the sentence and mark the part that has the error. Shashank/ (A) thought/ (B) of a new plan/ (C)**
A) of a new plan B) thought C) No error D) Shashank
13. **My dog is bigger than your dog. The bigger dog is _____.**
A) mine B) ours C) yours D) None of the above
14. **The robbers had a hidden _____ of diamonds and jewellery.**
A) kache B) cache C) cash D) None of these
15. **Choose the appropriate form of the verb; The doctor _____ very bad for the patient.**
A) feel B) felt C) feeling D) felling
16. **My teacher's name is Sheela. I like _____.**
A) her B) his C) she D) him
17. **Find the odd word.**
A) Run B) Walk C) Wash D) Marathon
18. **Complete the sentence with the correct spelling of the word. The bear went over the _____.**
A) mountan B) mountain C) mountane D) None of these
19. **Complete the series. 1, 2, 4, 16, ____**
A) 20 B) 24 C) 260 D) 256
20. **Choose the odd one out.**
A) Prince : Princess B) Actor : Actress
C) Duck : Hen D) None of these

21. The traveller sat _____ the shade of a tree. Fill in the blank with suitable prepositions given below :
- A) in B) under C) over D) within
22. Abdul married a girl. Girl has 2 brothers and 3 sisters. Elder sister of the girl is mother of Abdul. How daughter of Abdul is related to elder sister of girl.
- A) Grandmother B) Daughter C) Mother D) None of the above
23. Distribute all these bananas _____ the children. Fill in the blanks with suitable prepositions given below:
- A) among B) between C) with D) None of the above
24. Be punctual _____ you be fine.
- A) or B) and C) else D) None of the above
25. She is slow _____ she does not make mistakes.
- A) that B) but C) and D) None of the above
26. Fill in the blanks with the correct homophones. We wondered ____ (1) _____ the ____ (2) _____ would improve by the evening.
- A) 1 - weather 2 - whether B) 1 - whether 2 - weather
C) 1 - wether 2 - weather D) None of the above
27. The wound on his ____ (1) _____ took a long time to ____ (2) _____.
- A) 1 - heel 2 - heal B) 1 - heal 2 - heel
C) 1 - heel 2 - heel D) None of the above
28. It was _____ difficult for her to remain _____ even for a few minutes.
- A) 1 - quiet 2 - quite B) 1 - quite 2 - quiet
C) 1 - quite 2 - quite D) None of the above
29. Which of the following sentences is correct ?
- A) "Does the music start at 4:00 or 4:30?" inquired Ms. Clark.
B) Does the music start at 4:00 or 4:30" inquired Ms. Clark?
C) "Does the music start at 400 or 430?" inquired Ms. Clark.
D) "Does the music start at 4:00 or 4:30"? inquired Ms. Clark.
30. What does the suffix "est" mean ?
- A) Past tense B) Action or process
C) To compare D) Having a lot of something

MATHEMATICS

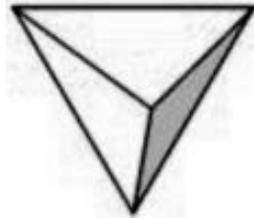
Q. 31-60

31. The perimeter of a rectangle is 30 cm. The length and breadth of the rectangle are integers in cm. Find the number of possible pairs of length and breadth in cm.
A) 1 B) 6 C) 7 D) 8
32. The floor of a study room is in the shape of a rectangle, its 12 ft long and 10 ft wide. How many tiles with 2 ft x 2 ft are required to cover the floor of the room?
A) 120 B) 60 C) 40 D) 30
33. Find the least natural number which when divided by 6, 9, 12 and 18 leaves no remainders.
A) 36 B) 18 C) 72 D) 12
34. Solve the equation: $2y + \frac{1}{2y} = 3$, then $16y^4 + \frac{1}{16y^4} = \underline{\hspace{2cm}}$
A) 81 B) 79 C) 49 D) 47
35. In the given figure, if $l \parallel m$, then what type of a angle is ABC ?

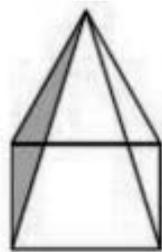


- A) Scalene B) Isosceles C) Right angled D) Both (B) and (C)
36. Find the area of the rectangles (in m²) whose sides are 2 m and 70 cm.
A) 1.1 B) 1.2 C) 1.3 D) 1.4
37. If $a : b = 2 : 5$, then $(3a + 2b)/(4a + b) = ?$
A) 16/13 B) 13/16 C) 25/22 D) 20/21
38. Meena, Beena and Leena are climbing the steps to the hill top. Meena is at step x , Beena is 8 steps ahead and Leena 7 steps behind. Where are Beena and Leena? The total number of steps to the hill top is 10 less than 4 times what Meena has reached. Express the total number of steps using x .
A) $x + 8, x - 7; 4x - 10$ B) $x + 8, x + 7; 4x - 10$
C) $x + 10, x - 1; 10x - 4$ D) None of these

39. Whole numbers are closed under the addition and also under multiplication but not subtraction. This property is known as_____.
- A) Closure property B) Commutative C) Associative D) None of these
40. Perimeter of a square is 64 cm. Find the area of the square.
- A) 64 B) 128 C) 216 D) 256
41. Write the successor of the series: $\frac{1}{2}$, $\frac{1}{5}$, $\frac{1}{14}$, ____
- A) $\frac{1}{27}$ B) $\frac{1}{25}$ C) $\frac{1}{41}$ D) $\frac{1}{31}$
42. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel (in litres) will be required by the truck to cover a distance of 1650 km ?
- A) 299 B) 298 C) 300 D) 301
43. State the expression; Bikash is twice as old as Raju. Take Raju's age as x.
- A) $x + 2$ years B) $2x$ years C) $\frac{x}{2}$ years D) None of the above
44. Can you draw a triangle with a horizontal line of symmetry but no vertical line of symmetry?
- A) Need more information B) Yes
C) No D) Question is wrong
45. In the fig., calculate the no of faces (F), no of vertices (V) and no of edges (E). Does it satisfy $F + V = E + 2$?



- A) Yes B) No
C) Question is wrong D) Need more information
46. In the fig., calculate the no of faces (F), no of vertices (V) and no of edges (E). Does it satisfy $F + V = E + 2$?



- A) No B) Yes
C) Question is wrong D) Need more information

56. The below table shows a survey of 110 school students which was done to find which activity they prefer to do in their free time. Which activity is preferred by most of the students other than playing ?

- A) Reading story book B) Watching TV
C) Painting D) Playing

Preferred Activity	Number of Students
Playing	45
Reading story books	30
Watching TV	20
Painting	15

57. Solve the riddle; I am a special number; Take away from me a six ! A whole cricket team; You will still be able to fix !

- A) 17 B) 14 C) 5 D) None of these

58. Write the fraction representing the total number of natural numbers in the collection of numbers :

-3, -2, -1, 0, 1, 2, 3.

- A) $\frac{3}{7}$ B) $\frac{4}{7}$ C) $\frac{7}{7}$ D) None of these

59. The food we eat remains in the stomach for a maximum of 4 hours. For what fraction of a day does it remain there ?

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{1}{6}$

60. Add the sum of $\frac{34}{9}$ and $\frac{11}{3}$ with the sum of $\frac{37}{6}$ and $\frac{38}{9}$.

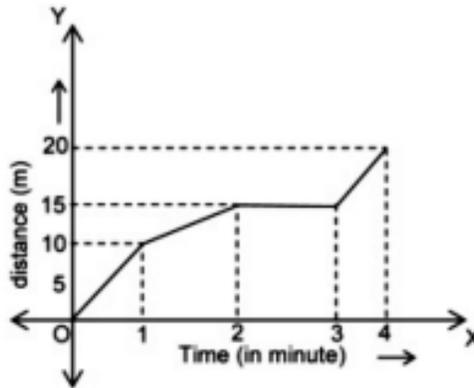
- A) $\frac{106}{6}$ B) $\frac{107}{6}$ C) $\frac{108}{6}$ D) $\frac{109}{6}$

End of Section 2

SCIENCE

Q. 61-90

61. Distance versus time graph of an object is shown in the figure. The average speed of the object is _____ m/s.



- A) 0.08 B) 2 C) 0.5 D) 1
62. If amplitude of the pendulum increases, the period _____.
- A) increases B) decreases
C) remains the same D) None of these
63. If a vibrating body produces 20 vibrations in 10 seconds, then its frequency is _____ Hz.
- A) 1 B) 2 C) 0.5 D) 5
64. The rear view mirrors used in vehicles are _____.
- A) plane B) concave C) convex D) None of these
65. The image of an object formed on the outer surface of a spoon is always _____.
- A) erect B) virtual C) inverted D) Both (A) and (B)
66. Butter is separated from milk by _____.
- A) sedimentation B) filtration C) churning D) decantation
67. Filtration is a method to separate the components of a _____.
- A) solution B) mixture of a liquid and an insoluble substance
C) both (A) and (B) D) pure substance
68. Which method is used to separate pebbles and stones from sand?
- A) Handpicking B) Winnowing C) Sieving D) Any of these
69. The components of a solution (say sugar in water) can be separated by _____.
- A) filtration B) evaporation C) sedimentation D) decantation

70. **The process of conversion of water vapours into liquid is called_____.**
A) condensation B) decantation C) sedimentation D) evaporation
71. **The process of conversion of water into its vapours is called_____.**
A) evaporation B) condensation C) guttation D) transpiration
72. **Which property forms the basis of sieving ?**
A) difference in weight B) difference in colour
C) difference in shape D) difference in size
73. **Melting of wax is_____.**
A) chemical change B) physical change
C) both of these D) None of these
74. **A solution having pH value 7 will be_____.**
A) Acidic B) Basic C) Neutral D) Sweet
75. **Which one of the following factors is involved in a change?**
A) Force B) Heat
C) Chemical reaction D) All of these
76. **The removal of waste substances from the body is called_____.**
A) reproduction B) respiration C) breathing D) excretion
77. **Which of the following is not the characteristic of a living thing ?**
A) Growth B) Movement
C) Do not need food D) Respiration
78. **Average human body temperature in degree Celsius is _____.**
A) 37 B) 39 C) 36 D) 38
79. **The invention of which of the following has made a great change in modes of transport ?**
A) Wheel B) Steam engine C) Fire D) Taming animals
80. **There are 100 baskets of fruit. Each basket has 24 kg of fruit. If half of the baskets are kept on the weighing machine, then what weight will be shown by the weighing machine in kg ?**
A) 1200 B) 1201 C) 1202 D) 1203

81. **Light travels in_____.**
A) straight line B) curved line C) zig-zag line D) randomly
82. **Which type of objects do not allow light to pass through them ?**
A) Translucent B) Opaque C) Transparent D) Penumbra
83. **Which is an example of a translucent object ?**
A) A thin sheet of paper B) A thin glass slab
C) A thin iron sheet D) All of these
84. **What are the properties of air ?**
A) It occupies space B) It is present everywhere around us
C) It has no colour and is transparent D) All of the above
85. **Properties of oxygen gas is_____.**
A) colourless B) tasteless C) odourless D) All of these
86. **Choose the acid present in curd.**
A) Lactic acid B) Formic acid C) Citric acid D) Melaic acid
87. **The ore of magnet is called_____.**
A) magnetite B) magnesia C) bauxite D) hematite
88. **Which of the following is a non-magnetic material ?**
A) Iron B) Cobalt C) Glass D) Nickel
89. **A bar magnet is immersed in a heap of iron filings and pulled out. The amount of iron filing clinging to the_____.**
A) north pole is almost equal to the south pole
B) north pole is much more than the south pole
C) north pole is much less than the south pole
D) magnet will be same all along its length
90. **Which of the following is an application of sodium hydroxide ?**
A) Soap formation B) Washing eyes
C) Food preservative D) Controlling acid rain

End of Section 3

“Everybody’s a genius but if you judge a fish by its ability to climb a tree, it will spend its whole life believing that it is stupid.”