



Question Paper  
**PRELIMS ALOHA GAT 2013**

Class: **9th class**  
Max Marks: **120**

Total No. of Questions: **120**  
Time Allowed: **90 minutes**

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- Minimum number of unequal forces required for a zero resultant is:  
a) 2    b) 4  
c) 3    d) 1
- Identify the vector quantity:  
a) Time    b) Work  
c) Heat    d) Angular momentum
- The energy stored in wound watch spring is:  
a) K.E    b) P.E  
c) Heat energy                                  d) Chemical energy
- A body of mass (m) is taken to the bottom of a deep mine. Then its:  
a) Mass increase                              b) Mass decrease  
c) Weight Increase                              d) Weight decreases.
- Relative density is given by:  
a)  $RD = \frac{P \text{ of body}}{P \text{ of water at } 4^{\circ}C}$     b)  $RD = \frac{\text{weight of body}}{P \text{ of body}}$   
c)  $RD = \frac{P \text{ of water at } 4^{\circ}C}{P \text{ of body}}$     d) None of above
- The specific heat value of water is:  
a) 4100 j/kg/ $^{\circ}C$                                       b) 4180 j/kg/ $^{\circ}C$   
c) 1500 j/kg/ $^{\circ}C$                                       d) 4800 j/kg/ $^{\circ}C$
- A stethoscope works on the principle of :  
a. Reflection of light                              b. Refraction of light  
c. Conduction of heat                              d. Multiple reflection of sound

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8. The SI Unit of measuring temperature is.  
a) Fahrenheit                      b) Reaumer  
c) Celsius                            d) Kelvin
9. Which technique is used in a washing machine to squeeze out water from wet clothes while drying?  
a) Centrifugation                b) Crystallization  
c) Sublimation                      d) Distillation
10. Milk is an example of.  
a) Solution                            b) Suspension  
c) Colloids                            d) Gel
11. Which of the following is the correct electronic configuration of chlorine?  
a) 2,8,1                                b) 2,8,2  
c) 2,8,7                                d) 2,8,8
12. The elements Nitrogen & Phosphorus have valence electrons.  
a) 3                                        b) 4                                        c) 5                                        d) 6
13. Animal cell is limited by?  
a) Plasma membrane                b) Cell wall  
c) Cell membrane                      d) Tonoplast
14. Double membrane is absent in?  
a) Mitochondria                      b) Chloroplast  
c) Nucleus                                d) Lysosomes
15. Difference between smooth and rough endoplasmic reticulum is due to the presence of----- on their membrane?  
a) Centrosomes                      b) Oxysomes  
c) Ribosomes                            d) Both a and c
16. Which of the following tissue is composed of mainly dead cells?  
a) Phloem                                b) Epidermis  
c) Xylem                                    d) Endodermis
17. Bones are connected to one another by?  
a) Ligament                              b) Tendon  
c) Cartilage                                d) Muscle
18. Muscles of heart are called?  
a) Smooth                                b) Voluntary  
c) Cardiac                                 d) Both (a) & (c)

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19. A branch of biology which deals with the identification nomenclature and classification of organism is called?  
a) Morphology                      b) Ecology  
c) Taxonomy                        d) Botany
20. In Whitker's classification unicellular organisms are grouped under?  
a) Protista                          b) Porifera  
c) Fungi                              d) Protozoa
21. The mode of nutrition in fungi is characteristically?  
a) Symbiotic                        b) Autotrophic  
c) Holozoic                         d) Saprotrophic
22. True jelly fish belongs to class?  
a) Hydrozoa                        b) Anthozoa  
c) Scyphozoa                      d) Both b&c
23. -----are known as 'amphibians of plant kingdom';  
a) Pteridophyta                    b) Bryophyta  
c) Thallophyta                    d) Gymnosperms
24. Aves have?  
a) 2-chambered heart              b) 3-chambered heart  
c) 2 or 3-chambered heart        d) 4-chambered heart
25. Congenital diseases are those which?  
a) Are deficiency diseases        b) Are present from time of birth  
c) Are spread from man to man    d) Occur during life time
26. Two chords AB & CD of a circle intersect outside the circle at P if AP = 16cm CP = 10cm, PD = 8cm, then AB is.  
a) 5 cm                              b) 4 cm  
c) 12. 8cm                         d) 11. cm
27. If  $\log(\sqrt{a} = m)$ , then  $(a)^{1/2m}$  is equal to  
a) 1                                  b)  $\sqrt{10}$   
c) 10                                 d) None of these
28. The number of the terms in the expansion of  $(x-y)^2(x+y)$  is  
a) 4                                  b) 6  
c) 8                                 d) 18
29. A room is 18m long 14 m wide and 8m height then total surface area of the six faces of the room is.  
a) 1008 m<sup>2</sup>                        b) 1016 m<sup>2</sup>  
c) 2016 m<sup>2</sup>                        d) 1106 m<sup>2</sup>

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30. The graph of  $x = -4.5$  is  
 a) x-axis    b) y-axis  
 c) A line parallel to x-axis   d) A line parallel to y- axis
31. The curved surface area of a sphere is  $616 \text{ m}^2$  then its radius is  
 a) -6 m    b) 8 m  
 c) 7 m    d) 5 m
32. If  $x + \frac{1}{x} = 2$ , then the value of  $x^2 - \frac{1}{x^2}$  is  
 a) 4    b) 2  
 c) -2    d) -4
33. A cyclic parallelogram is a  
 a) Square    b) Rhombus  
 c) Rectangle    d) Trapezium
34. How many sides a regular polygon, whose each angle is  $108^\circ$   
 a) 4    b) 5  
 c) 6    d) 7
35. How many spherical bullets can be made out of cube of lead whose edge measures 22 cm. Each bullet being 2 cm in diameter?  
 a) 2500    b) 2541  
 c) 2514    d) 2534
36.  $\frac{2592}{\sqrt{?}} = 324$   
 a) 8    b) 144  
 c) 18    d) 64
37. Salman purchased a tape recorded at nine- tenth of its sales price and sold it for 8% more than its sales price what is his percent profit?  
 a) 20%    b) 18%  
 c) 19%    d) 8%
38. A man has ₹ 480 in one- rupee- five- rupee and ten- rupee notes if he has equal number of notes of each denomination, the total number of notes he has is:  
 a) 30    b) 60  
 c) 90    d) 300
39. The simplification of  $7\frac{1}{2} - [2\frac{1}{4} + \{1\frac{1}{4} - \frac{1}{2}(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6})\}]$  yields  
 a)  $\frac{2}{9}$     b) 1  
 c)  $4\frac{1}{2}$     d)  $1\frac{77}{228}$
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40. 50% of (5% of ₹ 300) is  
a) ₹ 5.00                      b) ₹ 7.50  
c) ₹ 8.50                      d) ₹ 10.00
41. Reciprocal of the sum of reciprocals of  $\frac{3}{5}$  and  $\frac{7}{3}$  is  
a)  $\frac{36}{5}$                               b)  $\frac{11}{44}$   
c)  $\frac{4}{5}$                                 d)  $\frac{21}{44}$
42. A number when divided by 169 leaves 78 as remainder what would be the remainder when the same number is divided by 13?  
a) 0                                b) 1  
c) 6                                d) 9
43. Who is called the father of Geometry:  
a. C-R-Rao                      b. Pythagoras  
c. Eucilid                        d. None
44. A diagonal of a || gram divides it into \_\_\_\_\_ triangles:  
a. Two right triangles        b. Two congruent triangles  
c. Two triangles                d. None of them
45. A circle divides the plane on which it lies in part/parts :  
a. 2                                b. 1  
c. 4                                d. 3
46. Chords equidistant from the centre of a circle are equal in:  
a. Breadth                        b. Centre  
c. Area                              d. Length
47. To hit the nail right on the head  
a. To do right thing            b) To destroy one's reputation  
c) To announce one's fixed views    d) To teach someone a lesson
48. **Identify the adjective from the following:**  
a) Inhabit                        b) Inhabitation  
c) Inhabitably                d) Inhabitable
49. **Choose the third form of verb from the following:**  
a) Spring                        b) Sprung  
c) Sprang                        d) Springing
50. My mother ..... goes to cinema.  
a) Well                            b) Seldom  
c) Very                            d) Once
51. **Identify the incorrect portion:**  
He sleep at 10 pm.  
a    b    c    d

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52. He has been ..... to you but you should not think of any.....
- a) Good, revenge    b) Funey, notice  
c) Bad, thing else    d) bad, revenge
53. The horse fell down and broke--- leg
- a) Her                      b) Its  
c) His                      d) Their
54. Select the option which gives you the correct word: -
- 1 2 3 4 5 6  
H C U A G T
- a. 51324                      b. 34251  
c. 21543                      d. 243516
55. Select the option which gives you the correct sentence.
- 1 2 3 4 5 6 7  
To lend money have I no you
- a. 1543276                      b. 3421765  
c. 5436217                      d. 5463127
56. Select one word substitution for the following.
- Murder of a king*
- a. Infanticide                      b. Matricide  
c. Genocide                      d.Regicide
57. Choose the correct preposition to complete each sentence.
- I've lost my keys again. Help me look\_\_\_\_\_them.
- a. at                      b. to  
c. for
58. Choose the correct spelled option.
- a. Treachrous                      b. Trecherous  
c. Trechearous                      d. Treacherou
59. A father having offered to take the baby out in a perambulator, was tempted by the sunny morning to slip into a pub for a glass of beer.
- P : Indignant at her husband's behaviour, she decided to teach him a lesson.
- Q: She wheeled away the pram.
- R : A little later, his wife came by, where to her horror, she discovered her sleeping baby.
- S : Leaving the pram outside, he disappeared inside the bar.
- She waited for him, anticipating the white face and quivering lips which would soon appear with the news that the baby had been stolen.
- The Proper sequence should be:
- a) SRPQ                      b). RQPS  
c) SPQR                      d) PQSR

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60. Substitute the underline word with its most appropriate synonym from the following options.

*He taught the students to cultivate their minds.*

- a. develop                      b. change  
c. trained                        d. teach

61. In the question below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice.

*The invigilator was reading out the instructions.*

- a. The instructions were read by the invigilator.  
b. The instructions were being read out by the invigilator.  
c. The instructions had been read out by the invigilator.  
d. The instructions had been read by the invigilator.

62. Who wrote the 'Wings of Fire'?

- a. Sardar Vallabhbhai Patel  
b. Dr. APJ. Abdul Kalam  
c. Maulana Abul Kalam Azad  
d. None of these

63. Nitrous Oxide is better known as:

- a. Tear Gas                      b. Water Gas  
c. Laughing Gas                d. Bio- Gas

64. What is another name for plants grown in water?

- a. Hydroponics                      b. Water plants  
c. Water harvesting                d. None of these

65. Which is the most attended or watched sport in the world?

- a. Boxing                          b. Base ball  
c. Foot ball                        d. Volley ball

66. Who was the first Indian sage who proposed the Atomic theory?

- a. Kanad                              b. Aryabhata  
c. Ramanuja                        d. None of these

67. How many bits make a byte?

- a. 8                                      b. 4  
c. 2                                      d. 3

68. In how many days did phileas fogg go around the world?

- a. 70 days                              b. 90 days  
c. 80 days                              d. 60 days







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90. Which of the following enforce laws:  
a) Legislature                      b) Executive  
c) Judiciary                          d) Parliament.
91. Which Surah of the Quran is also known as Surat-ul-Gani?
92. Who wrote Tafsir al-Tabari?
93. Name the infidels mentioned in the Quran?
94. When was jihad made obligatory upon muslims?
95. Name the two important communities mentioned in the Qur'an-e-Majid who are closer in Faith and creed to Muslims?
96. Messenger Muhammad SAW said, "No Arab is superior to a non-Arab, no non-Arab is superior to an Arab." What is the basis of superiority and closeness to Allah SWT?
97. Where is Prophet Haroon (AS) buried?
98. Imran was the father of Prophets ;
99. Who was the mother of Maryam (AS)?
100. Name the town which was ruined through which the Holy Messenger 'Uzair AS passed?
101. Who developed techniques to calculate "acceleration of the Earth's Spin" and the rate of change in its axial tilt?
102. Kimiya-e-S'adat (the Alchemy of Happiness) is authored by whom?
103. Who stated first that ;  
Velocity = Motive power-material Resistance the principle which later formed the basis of modern mechanics?
104. Messenger Muhammad SAW was the first person in mankind who raised the status of woman at par with man. List any three measures which he made to emancipate women.
105. What two words were upon the blessed lips of Messenger Muhammad SAW, as regards the relation and rights of people, when he breathed his last?

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106. There are five different houses, A to E, in a row. A is to the right of B and E is to the left of C and right of A. B is to the right of D. Which of the houses is in the middle ?
- a) A                      b) B                      c) D                      d) E
107. Compare the knowledge of persons X, Y, Z, A, B and C in relation to each other : 1. X knows more than A. 2. Y knows as much as B. 3. Z knows less than C. 4. A knows more than Y. The best knowledgeable person amongst all is :
- a) X                      b) Y                      c) A                      d) C
108. Five boys participated in a competition. Rohit was ranked lower than Sanjay. Vikas was ranked higher than Dinesh. Kamal's rank was between Rohit and Vikas. Who was ranked highest ?
- a) Sanjay                      b) Vikas  
c) Dinesh                      d) Kamal  
e) None of These
109. Salma remembers that her father's birthday was certainly after eighth but before thirteenth of December. Her sister Nasreena remembers that their father's birthday was definitely after ninth but before fourteenth of December. On which date of December was their father's birthday?
- a) 10th                      b) 11th  
c) 12th                      d) Data inadequate                      e) None of these
110. X was born on March 6, 1993. The same year Independence Day was celebrated on Friday. On which day was X born?
- a. Wednesday                      b. Thursday  
c. Friday                      d. Saturday
111. If the 25th of August in a year is Thursday, the number of Mondays in that month is ;
- a. 3                      b. 4  
c. 5                      d. 6
112. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?
- a) 246173                      b) 214673  
c) 214763                      d) 216473

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113. If GIVE is coded as 5137 and BAT is coded as 924, how is GATE coded ?

- a) 5427                                  b) 5724  
c) 5247                                  d) 2547

114. If  $Z = 52$  and  $ACT = 48$ , then BAT will be equal to

- a) 39                                        b) 41  
c) 44                                        d) 46

**Four words have been given, out of which three are alike in some manner and the fourth one is different. Choose out the odd one:**

115. (a) Attlee                                (b) Bevin  
      (c) Chamberlain                    (d) Churchill
116. (a) Sketch                              (b) Paper  
      (c) Poster                              (d) Diagram
117. (a) Circle                                (b) Ellipse  
      (c) Sphere                             (d) Cube
118. (a) Feldspar                            (b) Bauxite  
      (c) Azurite                            (d) Cryolite
119. (a) Turban                              (b) Skirt  
      (c) Sari                                (d) Frock
120. (a) Travelled                          (b) Sailed  
      (c) Walked                            (d) Rode