



# IGNITE

## SAMPLE TEST PAPER

ACADEMIC SESSION : 2017-18  
CLASS-VIII



Time : 1½ Hr.

Date : 29-04-2017

Maximum Marks : 100

### GENERAL INSTRUCTIONS

1. In Mathematics, Physics, Chemistry, Biology each question carry 2(two) marks and in Social Science and Mental Ability each question carry 1 (one) mark.
2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
6. There is 1/4 negative marking for each wrong answer. So attempt each question carefully.
7. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
8. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.
9. Post exam Answer Key will be declared. Correction in Answer Key will be accepted till next 36 hours after which no correction will be entertained.



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1. Solve :  $[167 + 2\{23 \times (-3) - 7(48 \div 3 - 14)\}]$   
 (A) 1 (B) 57  
 (C) -1 (D) 84
2. The average temperature of first 4 days of a week is  $35^{\circ}\text{C}$  and that of the last 3 days is  $42^{\circ}\text{C}$ . The average temperature of the week is:  
 (A)  $39^{\circ}\text{C}$  (B)  $38^{\circ}\text{C}$   
 (C)  $40^{\circ}\text{C}$  (D)  $39.3^{\circ}\text{C}$
3. Ekta drives a car with a speed of 48 km./hr. and covers a fixed distance in 10 hrs., if the same distance is to be covered in 8 hrs., How much speed should Ekta increase.  
 (A) 60 km/hr. (B) 36 km/hr.  
 (C) 24 km/hr. (D) 12 km/hr.
4. Nitin started a business with Rs. 10,000 and after 4 months shailesh joins the business by investing Rs. 12,000. If the total profit is Rs. 10,800 then profit share of shailesh is :  
 (A) Rs. 4800 (B) Rs. 6000  
 (C) Rs. 5000 (D) Rs. 5800
5. If the selling price of 5 articles is same as the cost price of 6 articles then the gain percentage is :  
 (A) 1% (B) 5%  
 (C) 10% (D) 20%
6. The angle between the bisectors of two adjacent supplementary angles is :  
 (A) acute angle (B) right angle  
 (C) obtuse angle (D) none of these
7. A wire 88 cm long is bent into a form of a circle. Find the area enclosed by the wire. [ Use  $\pi = \frac{22}{7}$  ]  
 (A) 14 sq. cm (B) 616 sq. cm  
 (C) 196 sq. cm (D) 576 sq. cm
8. The value of x in  $\frac{3}{x+1} = \frac{5}{7x+1}$  will be :  
 (A) 1/2 (B) 1/3  
 (C) 1/8 (D) 1/4
9. Degree of  $2^3$  is :  
 (A) 3 (B) 2  
 (C) 1 (D) 0
10. 28 litre mixture of milk and water contains milk and water in the ratio . of 5 : 2. If 2 litre of water be added to this mixture, then the ratio of water and milk is :  
 (A) 7: 2 (B) 5: 4  
 (C) 1: 2 (D) 2: 1
11. Magnetic force is :  
 (A) attractive (B) repulsive  
 (C) (A) and (B) both (D) none of these
12. The number of satellites of Venus is/are :  
 (A) one (B) two  
 (C) three (D) zero
13. Find the initial velocity of a car which is stopped in 10 s applying brakes. Retardation due to brakes is  $250 \text{ cm/s}^2$ .  
 (A) 25 m/s (B) 250 cm/s  
 (C) 2.5 m/s (D) 25 cm/s
14. When a substance changes its state from solid to liquid :  
 (A) some amount of energy is absorbed  
 (B) the temepature remains constant  
 (C) both (A) and (B) are correct  
 (D) none of these
15. In a metal :  
 (A) all the electrons are free  
 (B) there is no electron  
 (C) all the electrons are bound to their parent atoms  
 (D) some electrons are free

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*Space For Rough Work*

16. An electric fuse is based on the :  
 (A) Heating effect of current  
 (B) Chemical effect of current  
 (C) Magnetic effect of current  
 (D) None of these
17. The rate of change of displacement with time is :  
 (A) Speed (B) Acceleration  
 (C) Retardation (D) Velocity
18. Substance that allows light to pass through it partially is called :  
 (A) Translucent  
 (B) Opaque substance  
 (C) Transparent substance  
 (D) None
19. Electric current is :  
 (A) flow of charge per unit time  
 (B) work done per unit time  
 (C) resistance per unit time  
 (D) all of the above
20. The range of a clinical thermometer is :  
 (A)  $0^{\circ}\text{C}$ – $100^{\circ}\text{C}$  (B)  $32^{\circ}\text{F}$ – $212^{\circ}\text{F}$   
 (C)  $0^{\circ}\text{C}$ – $273^{\circ}\text{C}$  (D)  $35^{\circ}\text{C}$ – $42^{\circ}\text{C}$
21. Flax is a kind of -  
 (A) animal skin (B) synthetic fibre  
 (C) plant (D) None of these
22. Match the following  
 (i) Tamarind (a) Acetic acid  
 (ii) Vinegar (b) Lactic acid  
 (iii) Lemon (c) Tartaric acid  
 (iv) Sour milk (d) Citric acid  
 (A) (i)-(c), (ii)-(a), (iii)-(d), (iv)-(b)  
 (B) (i)-(b), (ii)-(a), (iii)-(d), (iv)-(c)  
 (C) (i)-(d), (ii)-(a), (iii)-(b), (iv)-(c)  
 (D) (i)-(b), (ii)-(c), (iii)-(d), (iv)-(a)
23. Which of the following substances is used in preparation of silver mirror ?  
 (A) AgBr (B)  $\text{AgNO}_3$   
 (C)  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  (D) AgCl
24. Why rusting of iron is faster in coastal areas than in deserts ?  
 (A) Because air has more moisture in coastal areas than in desert areas.  
 (B) Because air has less moisture in coastal areas than in desert areas.  
 (C) None of these  
 (D) Both (A) and (B)
25. The process of obtaining pure crystals of copper sulphate from copper sulphate solution is known as -  
 (A) crystallisation (B) galvanisation  
 (C) rusting (D) None of these
26. Water is used as coolant in engines because -  
 (A) it makes us feel cold  
 (B) it freezes easily  
 (C) it has a high specific heat  
 (D) None of these
27. When magnesium oxide (MgO) react with water to form magnesium hydroxide  $[\text{Mg}(\text{OH})_2]$ , a base, it turns \_\_\_\_\_ litmus to \_\_\_\_\_.  
 (A) blue, red (B) blue, colourless  
 (C) red, blue (D) colourless, blue
28. During rusting, the layer deposited on the surface of iron is -  
 (A) FeO (B)  $\text{Fe}_2\text{O}_3$   
 (C)  $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$  (D) None of these

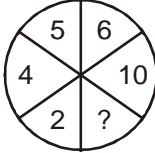
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*Space For Rough Work*

29. Ice floats on water because -  
 (A) density of ice is higher than that of water.  
 (B) density of ice is lower than that of water.  
 (C) temperature of ice is lower than that of water.  
 (D) temperature of water is higher than that of ice.
30. The boiling point of water on plains is 100°C. At hills it will be -  
 (A) 100°C (B) More than 100°C  
 (C) Less than 100°C (D) None of these
31. Few organisms cannot synthesise food on their own are called :  
 (A) Autotrophs (B) Heterotrophs  
 (C) BGA (D) Plants
32. Which of the following adaptations enable a penguin to swim ?  
 (A) Flippers  
 (B) Scales on body surface  
 (C) Streamlined body shape  
 (D) All of these
33. Wool yielding animals bear thick coat of hair because :  
 (A) The animals carry a lot of hair follicles on body only  
 (B) It protects them from the predators  
 (C) Hairs trap a lot of air, which is a poor conductor of heat  
 (D) The animals can sleep happily on the rough surfaces
34. The top soil is dark and :  
 (A) Drier than subsoil  
 (B) Richer in Na and Mg  
 (C) Wetter than subsoil  
 (D) Contains more organic matter
35. Which statement about lichens is true ?  
 (A) A network of algal filaments protects the fungus  
 (B) Algal cells supply food to the fungal component  
 (C) The algal component is parasitic on fungus  
 (D) Lichens always need organic substratum
36. Leaves respire with the help of :  
 (A) Lenticles (B) Stomata  
 (C) Plasmodesmata (D) Cuticle
37. Blood leaving lungs is rich in :  
 (A) Oxygen (B) Carbon dioxide  
 (C) Haemoglobin (D) Number of RBC
38. Human heart is divided into :  
 (A\*) 4 Chambers (B) 5 Chambers  
 (C) 3 Chambers (D) 2 Chambers
39. Which is the correct sequence of the food chain in grassland ?  
 (A) Grass → wolf → deer → buffalo  
 (B) Grass → insects → bird → snake  
 (C) Grass → snake → insects → deer  
 (D) Grass → snake → insects → wolf
40. Proteins are the polymers of  
 (A) Amino acids (B) Natural proteins  
 (C) Enzymes (D) Nucleic acids
41. What was the density of population in India according to 2001 census ?  
 (A) 373 (B) 316  
 (C) 324 (D) 350
42. In the leeward side of western ghats (.....) forests are found :  
 (A) Evergreen (B) Deciduous  
 (C) Alpine (D) Tidal

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*Space For Rough Work*

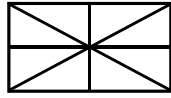
43. The Coromandel coast of Tamil Nadu receives rainfall due to :  
 (A) north west trade winds  
 (B) north east trade winds  
 (C) Bay of Bengal Branch of Monsoon winds  
 (D) all of the above
44. The dynasty that succeeded the Chalukyas in Western India was that of the -  
 (A) Cholas (B) Kakatiyas  
 (C) Pallavas (D) Rashtrakutas
45. Match the following :  
 A Military Pay master 1. Taiydars  
 B Charitable patronage 2. Bakshi  
 C Military Commanders 3. Kotwal  
 D Town Police Commander 4. Sadr  
 (A) A-2, B-4, C-1, D-3  
 (B) A-1, B-2, C-3, D-4  
 (C) A-4, B-3, C-2, D-1  
 (D) A-3, B-1, C-4, D-2
46. Guru Nanak established his centre at Kartarpur (Dera Baba Nanak) on the river :  
 (A) Indus (B) Sutlej  
 (C) Ravi (D) Chenab
47. Which among the following is not a river in the Veld grassland of South Africa :  
 (A) Nile (B) Zambezi  
 (C) Limpopo (D) Sabi
48. Anganwadis were set up by the :  
 (A) Doctors (B) Police  
 (C) Government (D) Households
49. Who called the multipurpose river valley projects the temples of 'modern India'  
 (A) Dr. Rajendra Prasad  
 (B\*) Jawahar Lal Nehru  
 (C) Smt. Indira Gandhi  
 (D) Mahatama Gandhi
50. Governor is appointed by the :  
 (A) Prime Minister  
 (B) President  
 (C) Chief Justice of India  
 (D) Chief Justice of the concerned state high court
- Directions : (51 to 53) Find the missing term(s) —**
51. 3, 6, 10, 15, 21, \_  
 (A) 28 (B) 27  
 (C) 26 (D) 25
52. Z, X, U, Q, L, ?  
 (A) F (B) K  
 (C) G (D) E
53.   
 (A) 12 (B) 10  
 (C) 16 (D) 5
54. In a row, Surendra is twelfth from the left & Sanjay is Eighteenth from the right. They interchange their positions. Now Sanjay is twenty sixth from right. How many person are there in the row ?  
 (A) 29 (B) 43  
 (C) 37 (D) 38
55. If **table** is called **window**, **window** is called **chair**, **chair** is called **door** & **door** is called **sofa**, then which one of following do we sit on ?  
 (A) chair (B) window  
 (C) door (D) sofae

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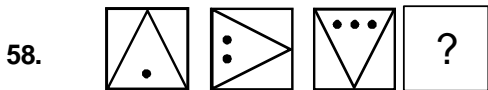
*Space For Rough Work*

56. Which of the following is not a leap year ?  
 (A) 1900 (B) 896  
 (C) 1224 (D) 2000

57. How many triangles are there in the given figure ?  
 (A) 12  
 (B) 14  
 (C) 16  
 (D) 18



**Direction : (58)** The figures in the question follow a series. Select the figure from the given alternatives which would continue the series.



- (A) (B)   
 (C) (D)

**Direction : (59)** In the following question, choose the pair/group of words that show the same relationship as given at the top of every pair/group.

59. Manager : Cabin  
 (A) Driver : Train (B) Captain : Desk  
 (C) Pilot : Cockpit (D) Servant : Hospital

**Direction : (60)** In the following five questions one figure is given below. You have to find out the mirror image of this figure. Four alternatives are given on the right side. Find your answer and show it on your answer sheet.



- (A) (B)   
 (C) (D)

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Space For Rough Work

**CLASS-VIII (ANSWER KEY)**

<b>Ques</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>Ans.</b>	A	B	D	A	D	B	B	C	D	C	C	D	A	C	D
<b>Ques</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>Ans.</b>	A	D	A	A	D	C	A	B	A	A	C	C	C	B	C
<b>Ques</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>
<b>Ans.</b>	B	A	C	D	B	B	A	A	B	A	C	B	B	D	A
<b>Ques</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>	<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>
<b>Ans.</b>	C	A	C	B	B	A	A	A	C	C	A	C	D	C	A