

# GENERAL INSTRUCTIONS FOR SAMPLE TEST PAPERS FOR RESO-SAT/RESO-FAST STUDENTS MOVING TO CLASS-IX

Time : 1½ Hr.

Max. Marks : 100

1. In Mathematics, Physics, Chemistry, Biology each question carry 2(two) marks and in Social Science, Mental Ability & English 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.

## MARKING CRITERIA

No. of Questions	Type	Marks		
		Correct	Wrong	Blank
1-60	Only one correct	Q. No. 1 to 40 : 2 Marks each	-0.50 Marks	0
		Q. No. 41 to 60 : 1 Marks each	-0.25 Marks	

## IMPORTANT

### PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET

#### Wrong Filling

- (A)  (B)  (C)  (D) Tick mark  
 (A)  (B)  (C)  (D) Cross mark  
 (A)  (B)  (C)  (D) Half filled or semi dark  
 (A)  (B)  (C)  (D) Light filled

#### Right Filling

- (A)  (B)  (C)  (D) Fully darken with HB Pencil  
 (A)  (B)  (C)  (D) Fully darken with HB Pencil  
 (A)  (B)  (C)  (D) Fully darken with HB Pencil  
 (A)  (B)  (C)  (D) Fully darken with HB Pencil

#### PCCP Head Office:

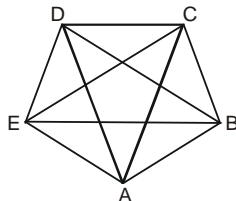
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Website : [www.pccp.resonance.ac.in](http://www.pccp.resonance.ac.in) E-mail : [pccp@resonance.ac.in](mailto:pccp@resonance.ac.in)

1. If  $(1^3 + 2^3 + 3^3 + 4^3)^{3/2} = \frac{1}{x}$ , then x is –  
 (A) 100 (B) 1/100  
 (C) 1000 (D) 1/1000

2. ABCDE is a regular pentagon. A star of five points ACEBDA is formed to join their alternate vertices. The sum of all five vertex angles of this star is –



- (A) Two right angle (B) Three right angle  
 (C) Four right angle (D) Five right angle

3. A fruit seller losses 10% by selling 26 oranges for Rs. 25/- The number of oranges he should sell for Rs. 5/ each to gain 17% is :

- (A) 4 (B) 5  
 (C) 6 (D) 8

4. Amongst the given options which of the number is the average of the remaining three ?

- (A) 26 (B) 39  
 (C) 30 (D) 61

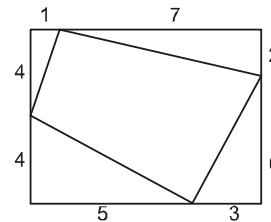
5. Six more than one-fourth of a number is two fifth of the same number. Then the number is :

- (A) 30 (B) 40  
 (C) 50 (D) 60

6. If  $a + b = 12$ ,  $ab = 17$  then the value of  $(4 + a)(4 + b)$  is –

- (A) 61 (B) 64  
 (C) 81 (D) 74

7. The sides of an  $8 \times 8$  square are cut by certain points into pieces of length 1 and 7, 2 and 6, 3 and 5 and 4 and 4 as shown in figure. The area of the quadrilateral determined by these four points are :



- (A) 28 (B) 36  
 (C) 48 (D) 8

8. Which of the following number is the largest ?

- (A)  $(1 + 2^{1/2})^2$  (B)  $2\left(\frac{1}{6} + \frac{1}{3}\right)^{-1}$   
 (C)  $(24)^{0.5}$  (D)  $\left(\frac{10}{7}\right)\left(\frac{9}{6}\right)\left(\frac{8}{5}\right)$

9. In a class, the number of boys is more than the number of girls by 12% of the total strength. The ratio of boys to girls is :

- (A) 11 : 14 (B) 14 : 11  
 (C) 25 : 28 (D) 28 : 25

10. The mean weight of a class of 34 students is 46.5 kg. If weight of the teacher is included, the mean rises by 500 gm. Then the weight of the teacher is –

- (A) 175 kg (B) 62 kg  
 (C) 64 kg (D) 72 kg

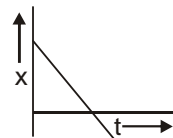
11. Pressure varies with force F as :

- (A) F (B)  $F^{-1}$   
 (C)  $F^2$  (D)  $F^{-2}$

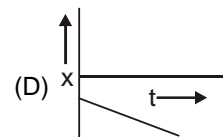
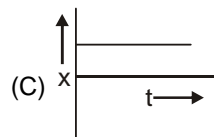
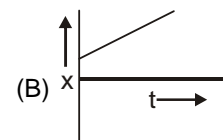
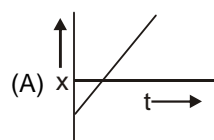
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12. The unit of change in momentum is :  
 (A)  $N \times s$  (B)  $N/s$   
 (C)  $N$  (D)  $\frac{kg \times s}{m}$
13. The phenomenon due to which bottom of a tank filled with water appears raised is :  
 (A) dispersion (B) refraction  
 (C) reflection (D) all of them
14. How many electrons constitute current of one micro ampere in one second ?  
 (A)  $6.25 \times 10^6$  (B)  $6.25 \times 10^{12}$   
 (C)  $6.25 \times 10^9$  (D)  $6.25 \times 10^{15}$
15. The shrillness of a musical sound depends upon:  
 (A) Amplitude (B) Loudness  
 (C) Frequency (D) Quality
16. Two stretched membranes of area  $2 \text{ cm}^2$  and  $3 \text{ cm}^2$  are placed in a liquid at the same depth. The ratio of the pressure on them is :  
 (A)  $2^2 : 3^2$  (B)  $2 : 3$   
 (C)  $3 : 2$  (D)  $1 : 1$
17. Piece of resistance wire has resistance of  $4\Omega$ . It is doubled on itself. Now its resistance will be :  
 (A)  $4\Omega$  (B)  $2\Omega$   
 (C)  $1\Omega$  (D)  $8\Omega$
18. An electric bell when ringing :  
 (A) carries no electric current  
 (B) carries continuous current  
 (C) carries intermittent current  
 (D) has a permanent magnet to make it work

19. **Assertion** : Earth behave like a huge bar magnet.  
**Reason** : The freely suspended magnet always point in a particular direction.  
 (A) both assertion and reason are true and reason is the correct explanation of assertion.  
 (B) both assertion and reason are true and reason is not the correct explanation of assertion .  
 (C) assertion is true and reason is false.  
 (D) both assertion and reason are false.
20. Given graph indicates negative velocity



Which of the following graph also indicate negative velocity



21. In fire extinguishers,  $\text{CO}_2$  extinguishes the fire by forming -  
 (A) solution (B) foam  
 (C) gas (D) emulsion
22. The first fully man made fibre was :  
 (A) Nylon (B) Silk  
 (C) Cotton (D) Terylene

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23. Percentage of carbon present in the sample of anthracite is :-  
 (A) 94 - 98% (B) 27 - 30%  
 (C) 78 - 86 % (D) 27 %
24. Mg burns with oxygen with a :  
 (A) Green yellow flame  
 (B) Blue flame  
 (C) Brick red flame  
 (D) Dazzling white flame
25. Which of the following is an example of thermosetting plastic?  
 (A) Melamine (B) Polythene  
 (C) PVC (D) All the above
26. Tungsten is used in electric bulbs because -  
 (A) it has high melting point  
 (B) it is metallic in nature  
 (C) it has high tensile strength  
 (D) it has high density
27. Which of the following substances is added to petrol to improve its quality ?  
 (A) Calcium carbonate  
 (B) Ethylene dibromide  
 (C) Tetraethyl lead  
 (D) Ethyl Mercaptan
28. Statement - 1 → Graphite is used as an electrode in an electrolytic cell.  
 Statement - 2 → Graphite is an example of non-metal .  
 Choose the correct statement :  
 (A) Statement 1 and 2 are true and statement 2 is the correct explanation of statement 1  
 (B) Statement 1 and 2 are true but statement 2 is not the correct explanation of statement 1.  
 (C) Statements 1 and 2 are false
29. (D) Statement 1 is true and statement 2 is false  
 A, B, C are three elements such that A on reaction with air produces dazzling white flame, B is used in rubber industry for hardening and C acts as a conductor with rise in temperature. Then A, B, C are –  
 (A) metals  
 (B) metalloid, metal, and non-metal respectively  
 (C) non-metal, metal, metalloid respectively  
 (D) metal, non-metal, metalloid respectively
30. CO<sub>2</sub> gas when bubbled through limewater, produces white precipitate. This dissolves on passing CO<sub>2</sub> gas in excess. The compounds 'A' and 'B' formed are respectively :  
 (A) 'A' is CaHCO<sub>3</sub> and 'B' is Ca(HCO<sub>3</sub>)<sub>2</sub>  
 (B) 'A' is CaCO<sub>3</sub> and 'B' is Ca(OH)HCO<sub>3</sub>  
 (C) 'A' is Ca(OH)HCO<sub>3</sub> and 'B' is Ca(HCO<sub>3</sub>)<sub>2</sub>  
 (D) 'A' is CaCO<sub>3</sub> and 'B' is Ca(HCO<sub>3</sub>)<sub>2</sub>
31. Who wrote the book Micrographia, which contains some of the most beautiful drawings of microscopic observations ever made ?  
 (A) Anton Van Leeuwenhoek  
 (B) Robert Hooke  
 (C) Sir Christopher Wren  
 (D) Ivan Pavlov
32. Raw materials required for the process of photosynthesis are :  
 (A) CO<sub>2</sub> and H<sub>2</sub>O  
 (B) Sugar and H<sub>2</sub>O  
 (C) O<sub>2</sub> and chlorophyll  
 (D) Minerals and O<sub>2</sub>
33. Which is not the constituent of blood ?  
 (A) Red blood cells (B) White blood cells

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- (C) Platelets (D) Lymph
34. "Nitrogen fixation" means  
 (A) conversion of atmospheric nitrogen into nitrogen compounds  
 (B) nitrogen cycle in nature  
 (C) manufacture of nitrogen from air  
 (D) liquification of nitrogen
35. The oxygen evolved in photosynthesis comes from  
 (A) CO<sub>2</sub> (B) water  
 (C) temperature (D) all of the above
36. Which among the following is a connecting link between living and non living ?  
 (A) Euglena (B) Virus  
 (C) Fungi (D) Protozoa
37. Which of the following statement is / are true for an animal cell :  
 (i) It contains a single large vacuole  
 (ii) Outer most boundary is plasma membrane  
 (iii) Nucleus is well developed and lies in center.  
 (A) (i) and (ii) (B) (ii) and (iii)  
 (C) none of these (D) all are true
38. Virus contains  
 (A) DNA only  
 (B) RNA only  
 (C) RNA and DNA both  
 (D) Either RNA or DNA but not both
39. "Master gland" of the body is  
 (A) Hypothalamus (B) Pituitary  
 (C) Adrenal (D) Pancreas
40. Match the disease with causative agent and mark the correct statement.  
 (i) Rabies 1. Bacteria  
 (ii) Malaria 2. Fungus  
 (iii) Ring worm 3. Virus  
 (iv) Tuberculosis 4. Plasmodium  
 (A) i - 1, ii - 2, iii - 3, iv - 4  
 (B) i - 3, ii - 4, iii - 2, iv - 1  
 (C) i - 2, ii - 3, iii - 4, iv - 1  
 (D) i - 4, ii - 2, iii - 1, iv - 3
41. Ain-i-Akbari was written by  
 (A) Akbar (B) Faizi  
 (C) Raja Todar Mal (D) Abul Fazal
42. Hitler formed a party named  
 (A) Communist Party  
 (B) Nazi Party  
 (C) Labour Party  
 (D) Conservative Party
43. The capital of the Cholas was  
 (A) Tanjore (B) Vangi  
 (C) Madurai (D) Uraiyur
44. In which battle Robert Clive defeated Siraj – Ud–Daulah?  
 (A) Battle of Buxar  
 (B) Battle of Panipat  
 (C) Battle of Plassey  
 (D) Battle of Haldighati
45. Whether a Bill is a money or not. Will be decided by the  
 (A) Speaker of the Lok Sabha  
 (B) Chairman of the Rajya Sabha  
 (C) Finance Minister  
 (D) Prime Minister

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46. A state of emergency can be declared in India by –  
 (A) The Prime Minister (B) The President  
 (C) The Parliament (D) The Governor of a state

47. The spring tide occurs when the moon the sun and the earth make in angle of  
 (A)  $90^\circ$  (B)  $180^\circ$   
 (C)  $45^\circ$  (D)  $33\frac{1}{2}^\circ$

48. The Grand Canyon is in  
 (A) Africa (B) Asia  
 (C) America (D) Australia

49. Which of the following is the chief crop of Australia  
 (A) Rice (B) Sugar Cane  
 (C) Wheat (D) Potato

50. Sindri is important for  
 (A) Oil refining  
 (B) Aluminium Manufacture  
 (C) Machine–tool industry  
 (D) Fertilizer Production

**Directions : (51 to 52) Find the missing terms :**

51. 55, 210, ?, 820, 1275  
 (A) 465 (B) 420  
 (C) 410 (D) 515

52. BYCXA, EVFUD, HSIRG, KPLOJ, ?  
 (A) MNLLOL (B) NMOLM  
 (C) QJRIP (D) PKQJO

53.

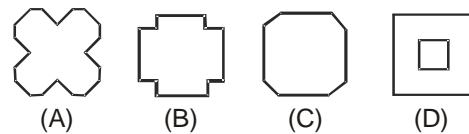
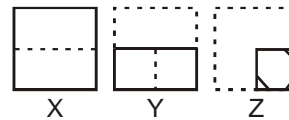
A	?	D
B	35	C
D	189	E

(A) 64 (B) 65  
 (C) 66 (D) 67

54. Ram is 11th in a queue which has 45 people. In queue the number of men member is double than the number of ladies. If 5 men are in front of Ram, how many ladies are behind him ?  
 (A) 10 (B) 9  
 (C) 8 (D)

**Direction : (55) A sheet has been folded in the manner as shown in X, Y and Z respectively and punched. You have to choose from the alternatives how it will look when unfolded.**

55.



**Direction(56 to 60) Tick the correct alternative-**

56. 'You don't know where Karen is,.....?'  
 'Sorry, I've no idea'  
 (A) Don't you (B) do you  
 (C) is she (D) None

57. You can't stop me.....what I want.  
 (A) doing (B) do  
 (C) from doing (D) that I do

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58. I'm sure I locked the door. I clearly remember.....it.  
 (A) have locking (B) to lock  
 (C) to have locked (D) None
59. I'm tired. I'd rather.....out this evening, if you don't mind.  
 (A) not going (B) not to go  
 (C) don't go (D) not go
60. 'Shall I stay here?' 'I'd rather like.....with us.'  
 (A) you come (B) you to come  
 (C) you came (D) you would come

## 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>	D	A	A	B	B	C	B	A	B	C	A	A	B	B	C
<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>	D	C	C	B	D	C	A	A	D	A	A	C	B	D	D
<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	D	A	B	B	B	D	B	B	D	B	D	C	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>	B	B	C	C	D	A	B	B	A	A	B	C	C	D	B

1. If the difference of the square of two consecutive rational numbers is 29. Then one of the number is -  
 (A) 28 (B) 13  
 (C) 14 (D) 16
2. If  $(1^2 + 2^2 + 3^2 + 4^2 + 5^2)^2 = \frac{1}{P}$  then P is \_\_\_\_\_.  
 (A)  $\frac{1}{3125}$  (B) 3125  
 (C)  $\frac{1}{3025}$  (D) 3025
3. A man suffers a loss of 25% by selling articles at the rate of Rs. 432 per dozen. The cost price of the article per dozen was :  
 (A) Rs. 45 (B) Rs. 48  
 (C) Rs. 476 (D) Rs. 576
4. The compound Interest on Rs. 25,600 for 2 years at  $6\frac{1}{4}$  % per annum is :  
 (A) Rs.3000 (B) Rs. 3300  
 (C) Rs. 3600 (D) Rs. 4000
5. Evaluate  $\sqrt{41 - \sqrt{21 + \sqrt{19 - \sqrt{9}}}}$   
 (A) 3 (B) 6  
 (C) 5 (D) 6.4
6. Evaluate  $\left(\frac{1}{2}\right)^{-3/2} \div \left[\left(\frac{1}{2}\right)^3\right]^{-1/2}$   
 (A)  $\left(\frac{1}{2}\right)^{-2}$  (B)  $\left(\frac{1}{2}\right)^{-3/5}$   
 (C) 0 (D) 1
7. A cylindrical rod whose height is 8 times of its radius is melted and recast into spherical balls of same radius. The number of balls will be :  
 (A) 4 (B) 3  
 (C) 6 (D) 8
8. A student has to secure 35% marks to pass the examination. If he gets 120 marks and fails by 20 marks, find the maximum marks set for the examination :  
 (A) 1000 (B) 400  
 (C) 350 (D) 700
9. If the mean of y and  $\frac{1}{y}$  is M, then the mean of  $y^3$  and  $\frac{1}{y^3}$  is :  
 (A)  $M \frac{(M^2 - 3)}{2}$  (B)  $M(4M^2 - 3)$   
 (C)  $M^3$  (D)  $2M(4M^2 - 3)$
10. If  $\frac{5x}{4} + \frac{6-x}{8} = \frac{6(x+3)}{3} - \frac{1}{6}$ , then x = ?  
 (A)  $-\frac{121}{22}$  (B)  $\frac{121}{12}$   
 (C)  $\frac{212}{21}$  (D)  $-\frac{122}{21}$
11. If the reflected ray is at an angle of  $90^\circ$  to the incident ray, then the angle of incidence of a ray is :  
 (A)  $50^\circ$  (B)  $60^\circ$   
 (C)  $45^\circ$  (D)  $90^\circ$
12. External forces are :  
 (A) always balanced  
 (B) never balanced  
 (C) may or may not be balanced  
 (D) none of these
13. A series of ocean waves, each 5.0 m from crest to crest, are moving past the observer at a rate of 2 waves per second. What is the velocity :  
 (A) 2.5 m/s (B) 5.0 m/s  
 (C) 8.0 m/s (D) 10.0 m/s

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14. If  $I$  is the current through a wire and  $e$  is the charge of electron, then the number of electrons in  $t$  sec. will be given by
- (A)  $\frac{Ie}{t}$  (B)  $Ite$   
 (C)  $\frac{e}{It}$  (D)  $\frac{It}{e}$
15. 1 dyne is equal to :
- (A) 980 g wt (B) 980 kg wt  
 (C)  $\frac{1}{980}$  g wt (D) None of these
16. Atmospheric pressure on the earth is unable to crush humans because :
- (A) humans are the most powerful living beings on the earth  
 (B) pressure exerted from the inside of the body cells is less than the atmospheric pressure there  
 (C) pressure exerted from the inside of the body cells is more than the atmospheric pressure there  
 (D) pressure exerted from the inside of the body cells equals the atmospheric pressure there
17. A book of 10 N is placed on the table. The force exerted by the surface of the table on the book will be :
- (A) 380 N (B) 10 N  
 (C) 20 N (D) 100 N
18. Which of the following is not a unit of force ?
- (A) Dyne (B)  $\text{Kg m s}^{-2}$   
 (C)  $\text{g cm s}^{-2}$  (D)  $\text{Kg m}^2 \text{s}^{-2}$
19. If the distance between the object and its image in a plane mirror is 14.6 cm, then the distance of the object from the mirror is
- (A) 14.6 cm (B) 7.3 cm  
 (C) 29.2 cm (D) 10 cm
20. Commercial unit of electrical energy is :
- (A) Calorie (B) Kilowatt hour  
 (C) Joule (D) All of them
21. The metal which can displace zinc from its salt solution is -
- (A) Mg (B) Fe  
 (C) Pb (D) Cu
22. Which of the following has the highest percentage of carbon ?
- (A) Peat (B) Lignite  
 (C) Bituminous (D) Anthracite
23. Which of the following is an example of amphoteric oxide ?
- (A) ZnO (B) CO  
 (C)  $\text{Fe}_2\text{O}_3$  (D) FeO
24. The head of a safety match contains
- (A) antimony trisulphide and potassium chlorate  
 (B) antimony chloride and potassium sulphide  
 (C) antimony carbonate  
 (D) potassium sulphide
25. Which one of the following statements pertaining to the general properties of metals is wrong ?
- (A) Most of the metals form basic oxides.  
 (B) All metals displace hydrogen from acids.  
 (C) All metals except Hg are found in solid state at room temperature.  
 (D) Metals form alloys with other metals.
26. Main constituents of coal gas are -
- (A)  $\text{H}_2\text{O}$ ,  $\text{C}_2\text{H}_6$ ,  $\text{O}_2$  (B)  $\text{CH}_4$ ,  $\text{CO}_2$ ,  $\text{O}_2$   
 (C)  $\text{CH}_4$ ,  $\text{H}_2$ , CO (D)  $\text{C}_2\text{H}_6$ ,  $\text{N}_2$ ,  $\text{O}_2$
27. LPG mainly contains :
- (A) butane and isobutane  
 (B) methane  
 (C) methane and ethane  
 (D) hydrogen, methane and ethane
28. Kavita, Mahima and Shreya were doing an experiment in which water was to be heated in a beaker. Kavita kept the beaker in innermost black part of the candle flame. Mahima kept the beaker near the wick in the yellow part and Shreya kept the beaker in the outermost part of the flame. Whose water will get heated in a shorter time ?
- (A) Kavita (B) Mahima  
 (C) Shreya (D) Both Kavita and

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29. The kind of fabric that can be used while working in a laboratory is :  
 (A) silk (B) nylon  
 (C) cotton (D) both (A) and (B)
30. Fabric polycot is prepared by mixing :  
 (A) polyester with silk  
 (B) polyester with nylon  
 (C) polyester with cotton  
 (D) polyester with silk and cotton
31. Manures are beneficial to soil because :  
 (A) They increase soil erosion  
 (B) They increase water holding capacity of soil  
 (C) They are water soluble in nature  
 (D) They are required in large quantities
32. Green revolution means  
 (A) use of green manure  
 (B) Growing of more crops  
 (C) Use of high yeild varieties  
 (D) Green vegetation
33. Diagnostic test for AIDS is :  
 (A) Widal Test  
 (B) Lepamin test  
 (C) ELISA Test  
 (D) Biopsy
34. World climate is threatened by increase in concentration of :  
 (A) oxygen (B) carbon dioxide  
 (C) nitrogen (D) water vapours
35. Bishnoi community people lost their lives while protecting :  
 (A) Khejri tree (B) Salt tree  
 (C) Pinus tree (D) Teak tree
36. Bacteriophage is :  
 (A) Bacteria which kills organisms  
 (B) Bacteria which kills viruses  
 (C) Virus which attack bacteria  
 (D) None of the above
37. The most busy part of the human body is :  
 (A) Heart (B) Eye  
 (C) Liver (D) Ear
38. The Sex of the child is determind by :  
 (A) Health of mother and father  
 (B) Male and female both  
 (C) Female  
 (D) Male
39. Removal of weeds is necessary for plant growth because weeds :  
 (A) compete with crop for nutrition  
 (B) cause diseases in crop  
 (C) delay the harvesting time of the crop  
 (D) attract the insects and birds towards the crop
40. NPK stand for :  
 (A) Nitrogen, Phosphorus and Sulphur  
 (B) Nitrogen, Potassium and Calcium  
 (C) Nitrogen, Phosphorus and Potassium  
 (D) Nitrogen, Potassium and Iron
41. Shahjahanabad consisted of \_\_\_\_\_ one of the largest and grandest mosques in India.  
 (A) Jama Masjid (B) Red Fort  
 (C) Chandni Chowk (D) Dargah
42. Woods despatch supported -  
 (A) Orientalist (B) Anglicist  
 (C) Muslims (D) None

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*Space For Rough Work*

43. The period of Congress known as 'Moderate Phase' is :  
 (A) 1885–1900 (B) 1885–1901  
 (C) 1885–1903 (D) 1885–1905
44. First cotton mill in India was established at -  
 (A) Delhi (B) Bombay  
 (C) Madras (D) Calcutta
45. Hiuen Tsang had come to India during the reign of :  
 (A) Asoka (B) Chadragupta-II  
 (C) Samudragupta (D) Harsa Vardhan
46. Sati system was prohibited by William Bentinck in the year :  
 (A) 1827 (B) 1828  
 (C) 1829 (D) 1830
47. In British period the Supreme Court was established under which Act –  
 (A) Pitt's India Act  
 (B) India Council Act 1860  
 (C) Regulating Act 1773  
 (D) Indian Council Act 1892
48. Who is known as the father of Indian constitution–  
 (A) Pt. Jawahar Lal Nehru  
 (B) Krishna Menon  
 (C) Sardar Vallabhbhai Patel  
 (D) Bhimrao Ambedkar
49. The sessions of Lok Sabha is summoned by the :  
 (A) Speaker of Lok Sabha  
 (B) President  
 (C) Leader of the Majority party  
 (D) Ministry of Paraliamentary affairs
50. Which one of the following is known as 'Pittsburg of India' ?  
 (A) Baroda (B) Rourkela  
 (C) Jamshedpur (D) Durgapur

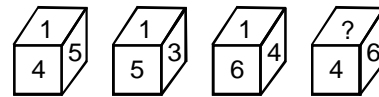
Direction : (51) Find the missing terms :

25	17	41
32	83	11
26	?	31

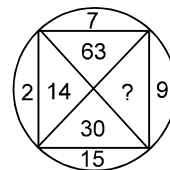
51. (A) 26 (B) 25  
 (C) 34 (D) 38

52. How many numbers amongst the numbers 7 to 41 are there which are exactly divisible by 9 but not by 3 ?  
 (A) 0 (B) 1  
 (C) 2 (D) 3

53. In the following question dice has been shown in different position. Study the pattern of the numbers on each face of it and find out the value of the sign "?" from four alternatives given -



- (A) 1 (B) 2  
 (C) 3 (D) 5



54. (A) 33 (B) 145  
 (C) 135 (D) 18

55. Find out the two signs to be interchanged for making following equation correct :  
 $3 - 9 \times 27 + 9 \div 3 = 3$   
 (A) + and - (B)  $\times$  and +  
 (C)  $\times$  and  $\div$  (D)  $\times$  and -

Direction : (56) Tick the correct passive voice from the alternatives given below-

56. The couple will exchange the rings before the cake is cut.  
 (A) The rings will be exchanged by the couple before the cake is cut.  
 (B) Before the cake is cut, the couple will exchange the rings.  
 (C) Both the above  
 (D) None of these

Space For Rough Work

**Direction(57 to 60): Spot the error-**

57. As the first President (A) / of India, Dr. Rajendra Prasad (B) / was known by all types of people in the world (C) / No error (D)

58. I was surprising (A) / at not having seen (B) / her even though she was standing just beside my wife. (C) / No error (D)

59. If you apologise (A) / for having broken your (B) / promises you will certainly be forgave. (C) / No error (D)

60. They exclaimed with delight that it (A) / was a very fine picture (B) / and said that they have never seen such a beautiful picture before. (C) / No error (D)

## ANSWER KEY

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

1. The value of  $\frac{(4.7)^3 - (2.7)^3}{(4.7)^2 + 4.7 \times 2.7 + (2.7)^2}$  is :

- (A) 2 (B) 7.4  
(C) 5 (D) 84.14

2. If  $x = 3 + \sqrt{8}$ , then the value of  $x^2 + \frac{1}{x^2}$  is :

- (A) 24 (B) 34  
(C) 17 (D) None of these

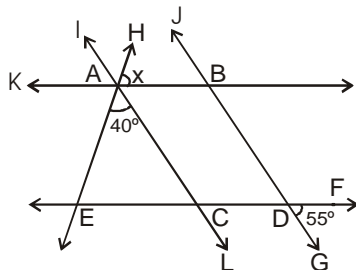
3. Shashi makes a fixed deposit of Rs. 50000 in a Bank for 73 days. If the rate of interest be 6.5% per annum what amount does she get on maturity of FD ?

- (A) Rs.6650 (B) Rs.49350  
(C) Rs.50650 (D) None of these

4. Each side of a square is 5 cm. The perimeter of the equilateral triangle formed on the diagonal of the square would be –

- (A) 15 cm (B) 20 cm  
(C)  $20\sqrt{2}$  cm (D)  $15\sqrt{2}$  cm

5. In the given Figure,  $AB \parallel CD$  and  $AC \parallel BD$ . If  $\angle EAC = 40^\circ$ ,  $\angle FDG = 55^\circ$ ,  $\angle HAB = x^\circ$ , then the value of x is :



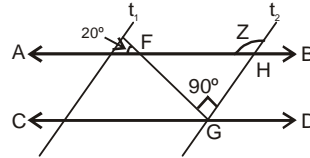
- (A)  $95^\circ$  (B)  $85^\circ$   
(C)  $165^\circ$  (D)  $50^\circ$

6. The average age of two brothers is 13. It is increased by 11 years when their mother's age is also included.

The age of the mother is :

- (A) 45 years (B) 46 years  
(C) 47 years (D) 48 years

7. In the figure  $AB \parallel CD$  and line  $t_1 \parallel t_2$ , find measure of Z.



- (A)  $90^\circ$  (B)  $110^\circ$   
(C)  $70^\circ$  (D)  $130^\circ$

8. Reduced to lowest terms,  $\frac{a^2 - b^2}{ab} - \frac{ab - b^2}{ab - a^2}$  is equal to :

- (A)  $\frac{a}{b}$  (B)  $\frac{a^2 - 2b^2}{ab}$   
(C)  $a^2$  (D)  $a - 2b$

9. If  $-7(3^{x+1}) + 5^{x+2} = -(3^{x+4}) + 5^{x+3}$ , find the value of x ?

- (A) -1 (B) 0  
(C) 3 (D) -5

10. The area of a trapezium is  $100 \text{ m}^2$ . If the sum of its parallel sides is 50m, then its height is equal to :

- (A) 4 m (B) 6 m  
(C) 8 m (D) 10 m

11. Concentrated sulphuric acid is added in distilled water, now the distilled water :

- (A) becomes a conductor.  
(B) remains insulator.  
(C) converts sulphuric acid into insulator.  
(D) acts as electrodes.

(Space For Rough Work)

12. If two ends of a wire connected to a battery, are dipped in distilled water, the compass needle brought near the circuit :
- (A) would keep moving in anticlockwise direction continuously.  
 (B) would keep moving in clockwise direction continuously.  
 (C) would remain still.  
 (D) would show deflection.
13. A small instrument having two prongs is called:
- (A) tuning fork.  
 (B) larynx.  
 (C) music fork.  
 (D) frequency arm.
14. In a tug-of-war, when two teams pull equally each other, the rope :
- (A) moves towards the first team.  
 (B) moves towards the second team.  
 (C) remains stationary  
 (D) None of these
15. Pressure directly depends on :
- (A) force (B) volume  
 (C) mass (D) none of these
16. According to the laws of reflection :
- (A) Angle  $i$  = Angle  $r$   
 (B)  $\text{Sine } i = \text{Sine } r$   
 (C)  $\text{Sine } i / \text{Sine } r = \text{constant}$   
 (D)  $\tan i = \tan r$
17. How much is the velocity of light in Vacuum ?
- (A) 3,00,000 km/sec. (B) 3,00,00 km/sec.  
 (C) 3,00,000 km/hr. (D) 3,00, 00 Km/hr
18. Orion constellation is also called :
- (A) Great Bear (B) Saptarshi  
 (C) Hunter (D) Letter 'W'
19. The circuit is discontinuous :
- (A) when the switch is in 'OFF' mode.  
 (B) when the switch is in 'ON' mode.  
 (C) without any source of current.  
 (D) without a bulb.
20. A stone falling from the roof of a house is an example of :
- (A) frictional force.  
 (B) magnetic force.  
 (C) gravitational force.  
 (D) electrostatic force.
21. The nonmetal which is used for the manufacture of fertilizers is -
- (A) chlorine (B) sulphur  
 (C) phosphorus (D) None of these
22. When copper sulphate reacts with iron, green coloured ----- solution and brown coloured ----- deposition is formed.
- (A) ferrous oxide, copper sulphide  
 (B) ferrous sulphate, copper  
 (C) ferrous sulphate, copper oxide  
 (D) ferric sulphate , copper oxide
23. In displacement reactions -
- (A) a less active metal displaces a more active metal.  
 (B) a more active non- metal is displaced by a less active non metal.  
 (C) a less active non-metal displaces hydrogen from dilute acids.  
 (D) a more active metal displaces hydrogen from dilute acids.
24. Which of the following alloys is light and strong ?
- (A) Brass (B) Stainless steel  
 (C) Duralium (D) Bronze

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(Space For Rough Work)

25. Separation of fractions of petroleum is done by-  
 (A) simple distillation  
 (B) destructive distillation  
 (C) fractional distillation  
 (D) sedimentation
26. Which of the following are animal fibres ?  
 (A) Silk and Jute  
 (B) Silk and Wool  
 (C) Cotton and Wool  
 (D) Nylon and Polyester
27. Which of the following statements regarding pure water is correct ?  
 (A) Pure water acts as an insulator when 6V battery is used.  
 (B) Pure water has maximum density at 4°C and minimum at 0°C.  
 (C) Pure water is neutral to litmus.  
 (D) All are correct
28. The flame of candle has three zones. The outer zone is blue, the middle zone is yellow and the inner zone is black. Which is correct regarding this ?  
 (A) The outer zone is least hot.  
 (B) The middle zone is hottest.  
 (C) The inner zone is least hot.  
 (D) All the zones have same temperature.
29. The type of combustion in which heat, light and sound are produced is -  
 (A) rapid (B) explosion  
 (C) spontaneous (D) None of these
30. Which of the following statement is not true ?  
 (A) Flame can be seen over burning solids and liquids.  
 (B) Type of flame depends upon the amount of oxygen available.  
 (C) Invisible zone of a flame is the least hot zone.  
 (D) Blue zone indicates complete combustion of fuel.
31. Cell theory states that :  
 (A) all cells are living  
 (B) all cells have nucleus  
 (C) cells are fundamental and structural units of living organisms  
 (D) cells reproduce by mitosis and meiosis.
32. A multicellular organism possesses  
 (A) differentiated cells  
 (B) undifferentiated cells  
 (C) dedifferentiated cells  
 (D) all the above.
33. Asexual reproduction through budding occurs in -  
 (A) Rose (B) Neem  
 (C) Yeast (D) Ginger
34. Soil erosion can be prevented by  
 (A) deforestation  
 (B) afforestation  
 (C) overgrazing  
 (D) removal of vegetation
35. Pollution is not caused due to the use of  
 (A) wood (B) solar energy  
 (C) unsaturated carbon (D) SO<sub>2</sub>
36. Which one of the following group constitute the fossil fuels  
 (A) Natural gas, oil and wood pieces  
 (B) Oil, wood pieces and dry dung  
 (C) Coal, wood pieces and oil  
 (D) Coal, oil and Natural gas
37. An entity not a component of an ecosystem is  
 (A) plant. (B) animal.  
 (C) building. (D) climate.
38. Wildlife is destroyed most when :  
 (A) There is lack of proper care  
 (B) Mass scale hunting for foreign trade  
 (C) It's natural habitat is destroyed  
 (D) Natural calamity

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*(Space For Rough Work)*

39. The food items that protect us from any - infection/diseases are  
 (A) fruits and vegetables  
 (B) sweets and chocolates  
 (C) chips and snacks  
 (D) ice creams
40. The secretions of endocrine glands are called-  
 (A) hormones (B) sweat  
 (C) oily secretions (D) water
41. Which article of the Constitution is a part of Right to water :  
 (A) Article 10 (B) Article 20  
 (C) Article 21 (D) Article 31
42. Which of the following made the Constitution of India :  
 (A) Lok Sabha  
 (B) Parliament  
 (C) Constituent Assembly  
 (D) British Parliament
43. H. J. khandekar supported :  
 (A) Adivases (B) Rural People  
 (C) Harijans (D) None of these
44. For the Lok Sabha election, the country is divided into numerous  
 (A) states (B) councils  
 (C) panchayats (D) constituencies.
45. Which amendment of US Constituion prohibits the legislature to make laws regarding religion?  
 (A) First Amendment  
 (B) Second Amendment  
 (C) Third Amendment  
 (D) Fourth Amendment
46. Kalgoorlie and Coolgardie are located in  
 (A) South America (B) Africa  
 (C) Western Australia (D) Western India.
47. The social reformer who studied in the school set up by the Christian missionaries was :  
 (A) Shri Narayana Guru.  
 (B) Jyotirao Phule.  
 (C) E V Ramaswamy Naicker  
 (D) Dr. B. R .Ambedkar.
48. In 1999 the world population reached :  
 (A) 1 billion (B) 3 billion  
 (C) 6 billion (D) 8 billion
49. The Vernacular Press Act was passed in the year  
 (A) 1875 (B) 1876  
 (C) 1877 (D) 1878
50. The book 'Gulamgiri' was written by  
 (A) Ambedkar (B) Haridas Thakur  
 (C) Narayana Guru (D) Jyotirao Phule

**Direction : (51)** Find the missing term :

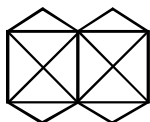
1	7	6
3	3	?
5	4	8
35	74	104

51.  
 (A) 1 (B) 2  
 (C) 3 (D) 4
52. If **RENT** is written as  $\div + \times -$ , **SAND** is written as  $\# / \times <$  then how can **START** be written in that code ?  
 (A)  $+ - / \div -$  (B)  $\# - / \div -$   
 (C)  $\times \div / - +$  (D)  $\times - / \div -$
53. The time on the watch is quarter to three. If the minute-hand points to North-East, in which direction does the hour hand point ?  
 (A) South-West (B) South-East  
 (C) North-West (D) North-East

(Space For Rough Work)



54. What is the number of triangles in this figure ?



- (A) 12 (B) 20  
(C) 22 (D) 24

**Direction : (55)** Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group ?



55.

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

**Direction(56 to 60): Tick the correct alternative-**

56. She said that she  
(A) will meet her mother-in-law on her birth day.  
(B) would meet her mother-in-law on her birthday.  
(C) may meet her mother-in-law on her birthday.  
(D) shall meet her mother-in-law on her birthday.

57. The contestants complained that  
(A) they will have performed better if they are given more time.  
(B) they will have performed better if they were given more time.  
(C) they would have performed better if they had been given more time.  
(D) they would performed better if they was given more time.

58. Before the semester was over, the programme  
(A) had approved.  
(B) was being approved.  
(C) had been approved.  
(D) is being approved.

59. The synonym of '**Diabolic**' is-  
(A) Kind hearted (B) Pleasant  
(C) Wicked (D) None of these

60. The antonym of '**Inane**' is-  
(A) Silly (B) Wise  
(C) Frivolous (D) None of these

## ANSWER KEY

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

1. If  $x\%$  of  $\frac{1}{y} = 16\frac{2}{3}\%$  of  $\frac{1}{150}$ , then what percent of  $y$  is  $x$  :
- (A)  $11\frac{1}{9}\%$  (B)  $9\frac{1}{11}\%$   
 (C) 10% (D) 9%
2. I sold two watches for Rs. 300 each, one at 10% loss, and another at 10% profit. What is the loss percentage or the profit percentage that resulted from the transaction ?
- (A) Profit of 10% (B) Loss of 1%  
 (C) Profit of 1% (D) Loss of 10%
3. If  $A : B = 1\frac{1}{2} : 3\frac{1}{2}$ ;  $B : C = 5\frac{1}{4} : 7\frac{1}{2}$ , then  $A : B : C$  is :
- (A) 5 : 7 : 12 (B) 5 : 7 : 10  
 (C) 3 : 7 : 10 (D) 3 : 7 : 12
4. Which of these numbers is the average of the remaining three ?
- (A) 26 (B) 39  
 (C) 30 (D) 61
5. The mean of  $x_1, x_2, \dots, x_{50}$  is  $M$  if every  $x_i$ ,  $i = 1, 2, \dots, 50$  is replaced by  $\frac{x_i}{50}$  then the mean is-
- (A)  $\frac{M}{50}$  (B)  $M + \frac{1}{50}$   
 (C)  $\frac{50}{M}$  (D)  $M$
6. If  $x + y = 5$  and  $xy = 6$  the value of  $(x^3 - y^3)$  is-
- (A) 39 (B) 19  
 (C) -63 (D) 63
7. If  $C$  and  $A$  are for circumference and area of a circle respectively, then-
- (A)  $A = 4\pi C$  (B)  $C = 4\pi A$   
 (C)  $C^2 = 4\pi A$  (D) none of these
8. By what number should  $(-12)^{-1}$  be divided so that the quotient may be  $\left(\frac{2}{3}\right)^{-1}$  :
- (A)  $-\frac{1}{9}$  (B) 18  
 (C)  $-\frac{1}{18}$  (D)  $\frac{1}{18}$
9. The mean of the following data is 15. Find the value of  $P$  :
- $x : 15 \ 25 \ 10 \ P \ 35$   
 $f : 10 \ 6 \ 3 \ 15 \ 6$
- (A) 60 (B) 4  
 (C) 515 (D) 20
10. Shalu cycles to her school at an average speed of 12 km/hr. It takes her 20 minutes to reach the school. If she wants to reach her school in 15 minutes, what should be her average speed.
- (A) 16 km/hr (B) 15.5 km/hr  
 (C) 18 km/hr (D) None of these
11. Waves of frequency greater than 20,000 Hz are called as :
- (A) panasonic (B) ultrasonic  
 (C) sonic (D) infrasonic

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Space For Rough Work

12. Electric fuse contains wire that :  
 (A) can melt on passage of electric current of low voltage.  
 (B) cannot melt.  
 (C) can melt only on passage of high electric current.  
 (D) electric fuse does not contain wire.
13. Lubricant ..... force of friction.  
 (A) increases (B) decreases  
 (C) does not change (D) none of these
14. Name the brightest planet :  
 (A) Moon (B) Venus  
 (C) Mars (D) Jupiter
15. The system of sound waves to determine the depth of sea is called :  
 (A) ultrasound (B) infrasound  
 (C) acoustics (D) sonar
16. The speed of light in vacuum is :  
 (A) 330 m/s (B) 300,000 m/s  
 (C) 300,000 km/s (D) 1759 m/s
17. Hypermetropia is :  
 (A) An eye defect in which image of an object is formed behind the retina.  
 (B) An eye defect in which image of an object is formed before the retina  
 (C) A lens defect in which image is not formed sharply on a single point.  
 (D) Lens defect in which a parallel beam of light does not exactly pass through the focus of the lens.
18. Pressure varies with area (A) as :  
 (A) A (B)  $\frac{1}{A}$   
 (C)  $A^2$  (D)  $\frac{1}{A^2}$
19. Choose the correct alternative where should an object be placed so that a real and inverted image of the same size is obtained by a convex lens :  
 (A) At the focus of the lens  
 (B) At twice the focal length  
 (C) At infinity  
 (D) Between optical centre and focus of a lens
20. The time taken by sun light to reach earth's surface is approximately :  
 (A) 4 min. (B) 8 min  
 (C) 8 sec. (D) 15 min.
21. The alkali used in the preparation of rayon is :  
 (A) Sodium Carbonate  
 (B) Sodium hydroxide  
 (C) Calcium hydroxide  
 (D) None of these
22. When a frying pan containing cooking oil is kept for long on a burning stove then cooking oil catches fire because :  
 (A) Its temperature is lower than its ignition temperature.  
 (B) Its temperature has reached its ignition temperature.  
 (C) Its temperature is lower than critical temperature.  
 (D) Its temperature is higher than critical temperature.
23. Non-metal used in purification of water is :  
 (A) nitrogen (B) oxygen  
 (C) sulphur (D) chlorine
24. Copper objects become dull due to formation of :  
 (A)  $\text{CuCO}_3$  (B)  $\text{Cu(OH)}_2 \cdot \text{CuCO}_3$   
 (C)  $\text{CuO}$  (D)  $\text{CuSO}_4$

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*Space For Rough Work*

25. Percentage of carbon present in an air dried sample of anthracite is :-  
 (A) 94 - 98% (B) 27 - 30%  
 (C) 78 - 86 % (D) 27 %
26. Ammoniacal liquor is -  
 (A) ammonia absorbed in water.  
 (B) ammonium hydroxide.  
 (C) aqueous solution of ammonia.  
 (D) All of the above.
27. Which of the following is a polymer :  
 (A)  $\begin{matrix} \text{H} & & \text{H} \\ & \diagdown & / \\ & \text{C} = \text{C} & \\ & / & \diagdown \\ \text{H} & & \text{H} \end{matrix}$   
 (B)  $\left[ \begin{array}{c} \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ | & | & | & | & | \\ -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}- \\ | & | & | & | & | \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array} \right]_n$   
 (C) Both (A) and (B)  
 (D)  $\begin{matrix} & \text{H} & \text{H} & \text{H} \\ & | & | & | \\ \text{H} & -\text{C} & -\text{C} & =\text{C} & -\text{H} \\ & | & & & \\ & \text{H} & & & \end{matrix}$
28. A luminous flame appears :  
 (A) red (B) green  
 (C) yellow (D) blue
29. Hydrogen is a very good fuel because :  
 (A) it has highest calorific value.  
 (B) burning of hydrogen does not cause any pollution.  
 (C) hydrogen can be easily prepared by the electrolysis of water.  
 (D) All of these
30. Which of the following substances is used in refining of petroleum ?  
 (A) NaCl (B) NaOH  
 (C)  $\text{Na}_2\text{CO}_3$  (D)  $\text{NaHCO}_3$
31. Beetroot is grown for :  
 (A) flower (B) leaves  
 (C) gum (D) Sugar
32. The percentage of moisture content in a grain during harvesting should not exceed :  
 (A) 25 percent (B) 14 percent  
 (C) 5 percent (D) 10 percent
33. Nitrogen fixation is :  
 (A) Nitrogen  $\longrightarrow$  Ammonia  
 (B) Nitrogen  $\longrightarrow$  Nitrates  
 (C) Nitrogen  $\longrightarrow$  Amino acid  
 (D) Both A and B
34. Which of the following is an edible mushroom ?  
 (A) Aspergillus (B) Sargassum  
 (C) Agaricus (D) All of the above
35. BOD is a measure of :  
 (A) Amount of oxygen needed by green plants during night.  
 (B) Amount of carbon dioxide combined with haemoglobin.  
 (C) Industrial wastes poured into water bodies.  
 (D) Extent to which water is polluted with organic compounds.
36. A disease that has been eradicated from the world is :  
 (A) Chicken pox (B) Polio  
 (C) Small pox (D) Mumps
37. When plant diversity is maintained in natural habitat the conservation is known as :  
 (A) In - situ (B) Ex - situ  
 (C) In - vivo (D) In - vitro

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Space For Rough Work

38. Which one is the excretory organ of humans ?  
 (A) Mouth (B) Kidney  
 (C) Stomach (D) Liver
39. The heart beat of a young man is approximately:  
 (A) 70 times per minute  
 (B) 72 times per minute  
 (C) 80 times per minute  
 (D) None of these
40. Function of amylase is to digest :  
 (A) Glucose (B) Starch  
 (C) Protein (D) Cellulose
41. Which one of the following is known as 'Pittsburg of India' ?  
 (A) Baroda (B) Rourkela  
 (C) Jamshedpur (D) Durgapur
42. India's share in world population :  
 (A) 20% (B) 16.7%  
 (C) 18% (D) 14.7%
43. Vasco da Gama discovered the sea route to India in -  
 (A) 1478 (B) 1488  
 (C) 1498 (D) None of these
44. In dry regions, soil erosion is checked by :  
 (A) Shelter belts  
 (B) Strip cropping  
 (C) Plugging of gullies  
 (D) Contour ploughing
45. How many organs are there in Indian government ?  
 (A) 4 (B) 3  
 (C) 5 (D) 2
46. When crops are combined with livestock the type of farming is known as  
 (A) Mixed Farming  
 (B) Commercial grain farming  
 (C) Nomadic herding  
 (D) Intensive farming
47. Who organised a Durbar in Delhi to acknowledge Queen Victoria as the Empress of India ?  
 (A) Lord Clive (B) Lord Hardinge  
 (C) Viceroy Lytton (D) Lord Dufferin
48. Which longitude's local time has been taken as the Indian Standard Time ?  
 (A) 89° 45' E (B) 75° 30' E  
 (C) 82° 30' E (D) None of them
49. Who introduced Doctrine of Lapse ?  
 (A) Lord Dalhousie (B) Dupleix  
 (C) Sir Eyre Coote (D) Lord Wellesley
50. In which language were Puranas written ?  
 (A) Pali (B) Prakrit  
 (C) Sanskrit (D) Marathi
- Directions : (51) Find the missing terms :**
51. 55, 210, ?, 820, 1275  
 (A) 465 (B) 420  
 (C) 410 (D) 515
- Direction : (52) In the following question one number is wrong in the series, find out the wrong number.**
52. 10, 26, 74, 218, 654, 1946, 5834  
 (A) 26 (B) 74  
 (C) 218 (D) 654
53. If ' $20 - 10$ ' means **200**, ' $8 \div 4$ ' means **12**, ' $6 \times 2$ ' means **4** and ' $12 + 3$ ' means **4**, then  
 $100 - 10 \times 1000 \div 1000 + 100 \times 10 = ?$   
 (A) 1090 (B) 0  
 (C) 1900 (D) 20

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*Space For Rough Work*

54. A baby who was born on 29th Feb. 1896, when did he celebrate his first birthday.  
 (A) 28th Feb. 1897 (B) 29th Feb. 1900  
 (C) 29th Feb. 1904 (D) 20th Feb. 1908
55. What is the value of **A** if each letter represents a different digit ?
- $$\begin{array}{r} A\ 3\ B \\ \times\ B \\ \hline 2\ 1\ 7\ B \end{array}$$
- (A) 3 (B) 4  
 (C) 5 (D) 7
- Direction : (56-60)** Tick the correct alternative:-
56. Why did Ravi go alone? He  
 (A) can have asked me to come.  
 (B) can have asked me to come.  
 (C) could have asked me to come.  
 (D) will have asked me to come.
57. I am  
 (A) broke. Will you lend me two hundred rupees?  
 (B) broke. Must you lend me two hundred rupees?  
 (C) broke. Would you lend me two hundred rupees?  
 (D) broke. Should you lend me two hundred rupees?
58. Everybody  
 (A) is shocked by the news yesterday.  
 (B) has shocked by the news yesterday.  
 (C) has been shocked by the news yesterday.  
 (D) was shocked by the news yesterday.
59. Mrs. Mridul teaches us English. The correct passive form of the sentence is  
 (A) We were taught English by Mrs. Mridul.  
 (B) We has been taught English by Mrs. Mridul.  
 (C) We are taught English by Mrs. Mridul.  
 (D) We had been taught English by Mrs. Mridul.
60. Anoushka \_\_\_\_\_ her hair in two long plaits. (do)  
 (A) Do (B) Done  
 (C) Does (D) Did

## 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	C	B	A	B	C	C	B	A	B	C	B	B	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>	C	A	B	B	B	B	B	D	B	A	D	B	C	D	B
<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>	D	B	D	C	D	C	A	B	B	B	C	B	C	A	B
<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>	A	C	C	A	C	A	D	B	C	B	C	C	D	C	