

# Jawahar Navodaya Vidyalaya

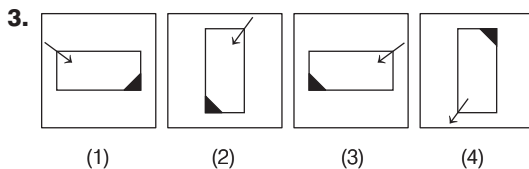
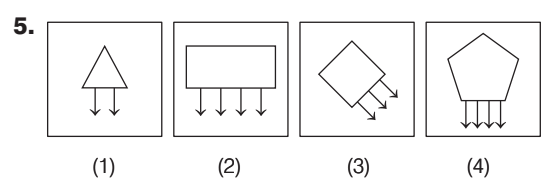
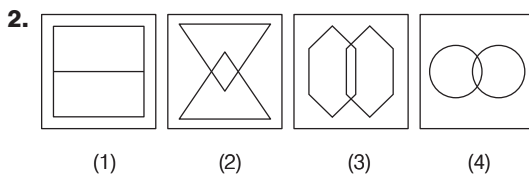
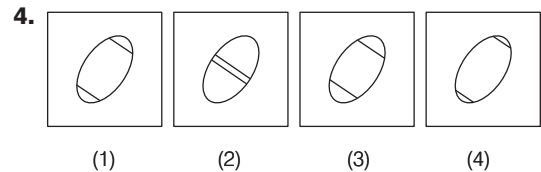
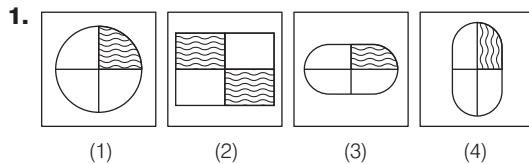
## Entrance Exam

### Solved Paper 2018

#### SECTION I : Mental Ability Test

##### Part I

**Directions** (Q. Nos. 1-5) Four figures (1), (2), (3) and 4 have been given in the each question of these four figures three figures, are similar in some way and one figure is different. Select the figures which is different and write your answer only in english numbers (i.e. 1,2,3,4) in the box against the number corresponding to the question.



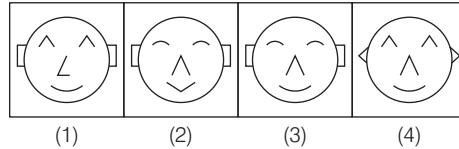
## Part II

**Directions** (Q. Nos. 6-10) A question figure is given on the left side and four answer figures marked (1), (2), (3) and (4) are given on the right side. Select the answer figure which is exactly the same as question figure and write your answer only in english numbers (i.e 1, 2, 3, 4) in the box against the number corresponding to the question. .

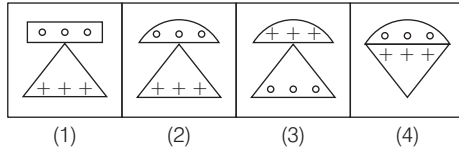
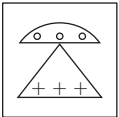
### 6. Question Figure



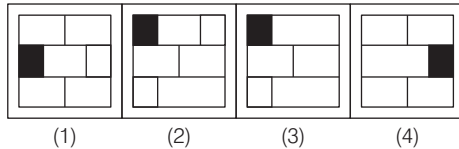
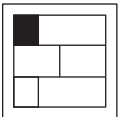
### Answer Figures



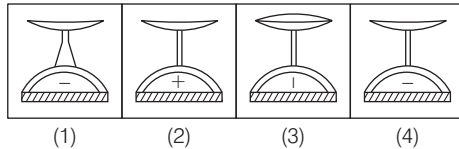
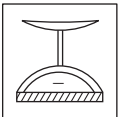
### 7.



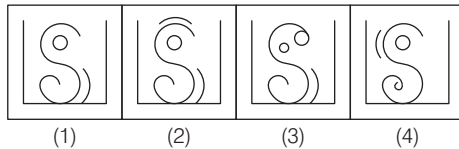
### 8.



### 9.



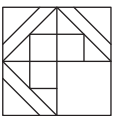
### 10.



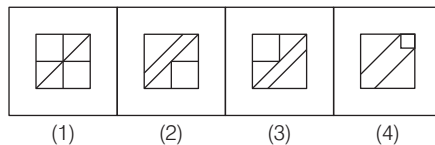
## Part III

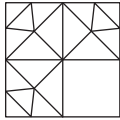
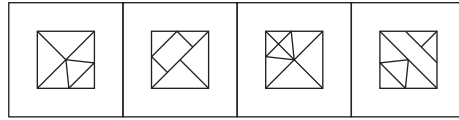
**Directions** (Q. Nos. 11-15) There is a question figure on the left hand side, a part of which is missing. Observe the answer figures 1,2,3,4 on the right hand side and find out the answer figure which without changing the direction, fits in the missing part of the question figure in order to complete the pattern in the question figure. Indicate your answer by number of the answer figure chosen by you in the box against the number corresponding to the question.

### 11. Question Figure



### Answer Figures



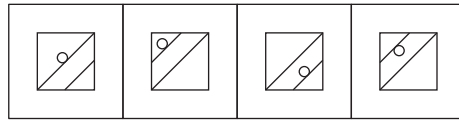
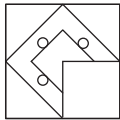
**12. Question Figure****Answer Figures**

(1)

(2)

(3)

(4)

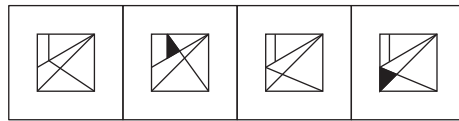
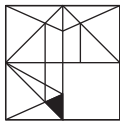
**13.**

(1)

(2)

(3)

(4)

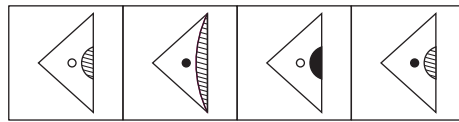
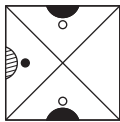
**14.**

(1)

(2)

(3)

(4)

**15.**

(1)

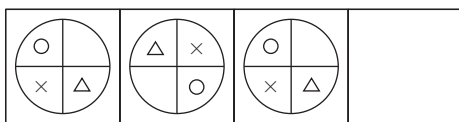
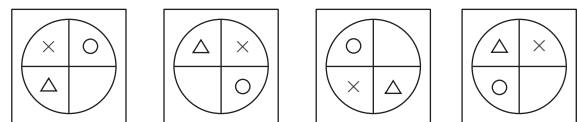
(2)

(3)

(4)

**Part IV**

**Directions (Q. Nos. 16-20)** There are three questions figures on the left hand side and the space for the fourth figure is left blank. Question figures are in a series. Find out one figure from among the answer figures given on the right hand side which occupies the blank space for the fourth figure on the left hand side and completes the series. Indicate your answer by number to the answer figure chosen by you in the box against the number corresponding to the question.

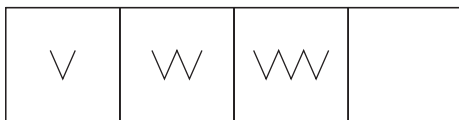
**16. Question Figures****Answer Figures**

(1)

(2)

(3)

(4)

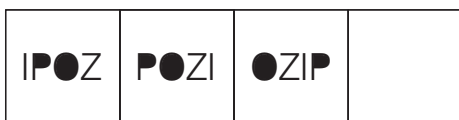
**17.**

(1)

(2)

(3)

(4)

**18.**

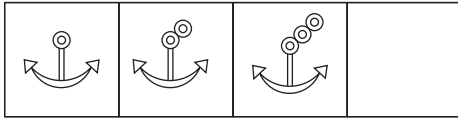
(1)

(2)

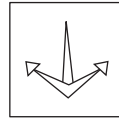
(3)

(4)

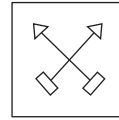
## 19. Question Figure



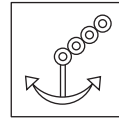
## Answer Figures



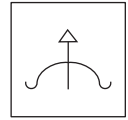
(1)



(2)

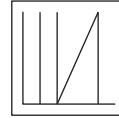
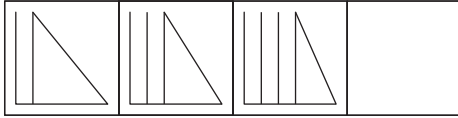


(3)

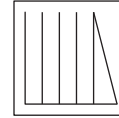


(4)

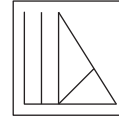
## 20.



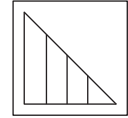
(1)



(2)



(3)



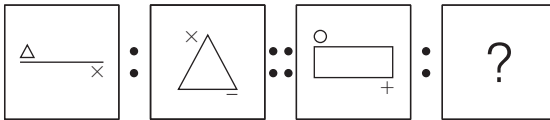
(4)

## Part V

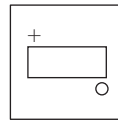
**Directions (Q. Nos. 21-25)** There are two sets of two question figures each. The second set has a question mark '?'. There exists a relationship between the first two question figures. Similar relationship should exist between the third and fourth question figure. Select one of the answer figures which replaces the question mark. Write the number of the answer figure selected by you in the box against the number corresponding the question.

## 21.

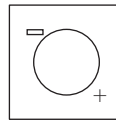
## Question Figures



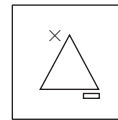
## Answer Figures



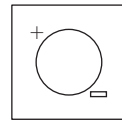
(1)



(2)

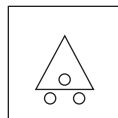
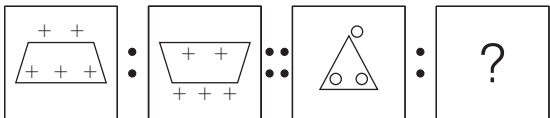


(3)

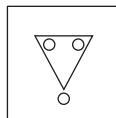


(4)

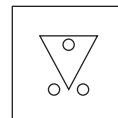
## 22.



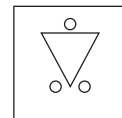
(1)



(2)

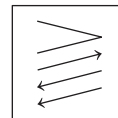
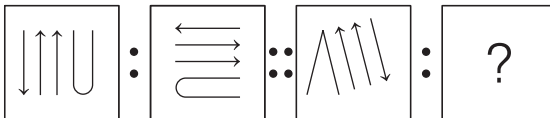


(3)

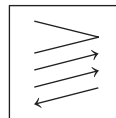


(4)

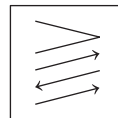
## 23.



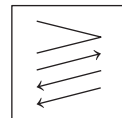
(1)



(2)



(3)



(4)

## 24.



(1)



(2)

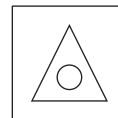
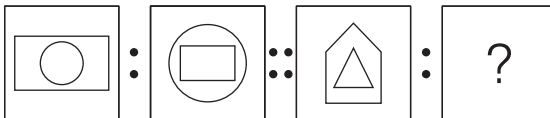


(3)

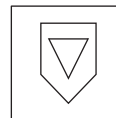


(4)

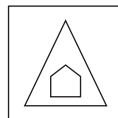
## 25.



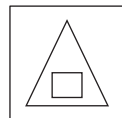
(1)



(2)



(3)

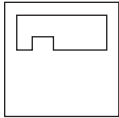


(4)

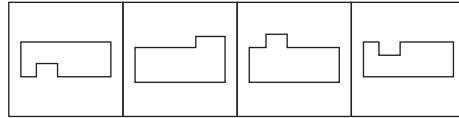
## Part VI

**Directions** (Q. Nos. 26-30) One part of a geometrical figure is on left hand side as question figure and the other one is among the four answer figures (1), (2), (3), (4), on the right hand side. Find the figure on the right hand side that complete the geometrical figure and write the number given below that figure in the box against the number corresponding to the question.

### 26. Question Figure



### Answer Figures



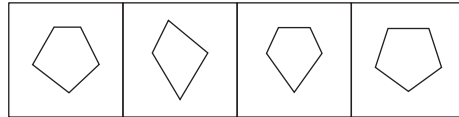
(1)

(2)

(3)

(4)

### 27.



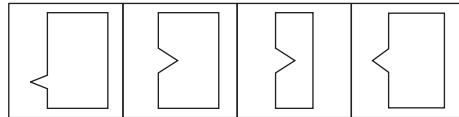
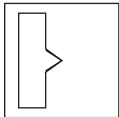
(1)

(2)

(3)

(4)

### 28.



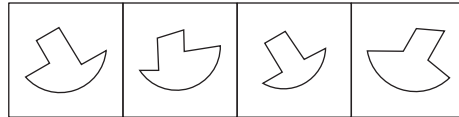
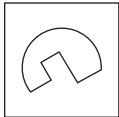
(1)

(2)

(3)

(4)

### 29.



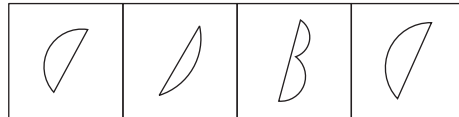
(1)

(2)

(3)

(4)

### 30.



(1)

(2)

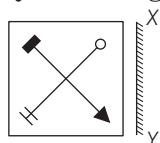
(3)

(4)

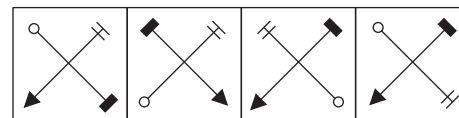
## Part VII

**Directions** (Q. Nos. 31-35) There is a question figure on the left side and four answer figures marked 1, 2, 3, 4 are given on the right side. Select the answer figure which is exactly the mirror image of the question figure when the mirror is held at XY. Indicate your answer by number of the answer figure chosen by you in the box against the number corresponding to the question.

### 31. Question Figure



### Answer Figures

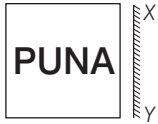


(1)

(2)

(3)

(4)

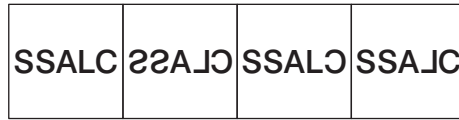
**32. Question Figure****Answer Figures**

(1)

(2)

(3)

(4)

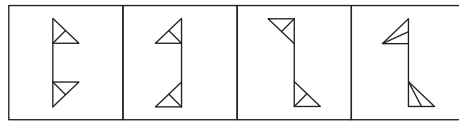
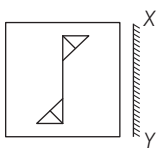
**33.**

(1)

(2)

(3)

(4)

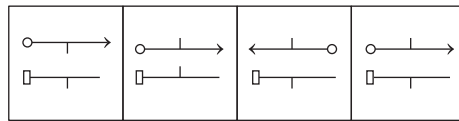
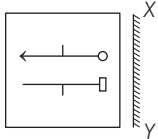
**34.**

(1)

(2)

(3)

(4)

**35.**

(1)

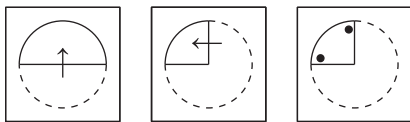
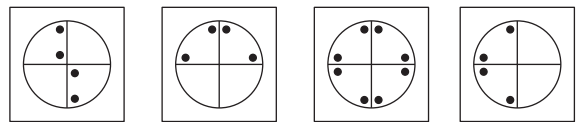
(2)

(3)

(4)

**Part VIII**

**Directions (Q. Nos. 36-40)** A piece of paper is folded and punched as shown in question figures on the left side and four answer figures marked, 1, 2, 3, 4 are given on right side. Select the answer figure which indicate how the paper will appear when opened (unfolded). Indicate your answer by number of the answer figure chosen by you in the box against the number corresponding to the question.

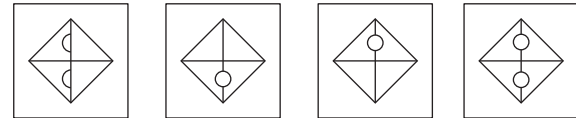
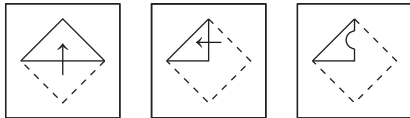
**36. Question Figures****Answer Figures**

(1)

(2)

(3)

(4)

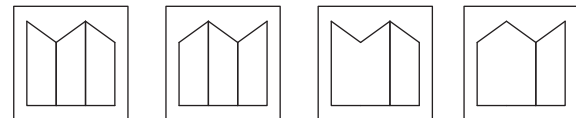
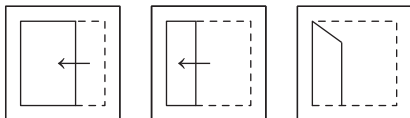
**37.**

(1)

(2)

(3)

(4)

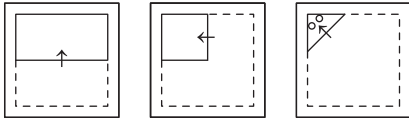
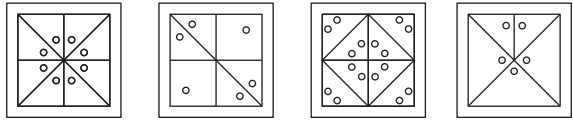
**38.**

(1)

(2)

(3)

(4)

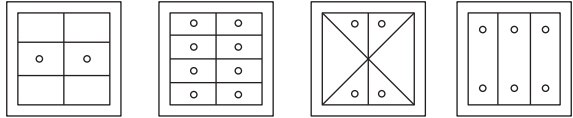
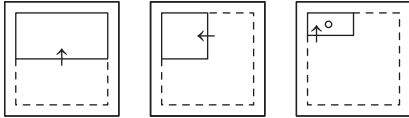
**39. Question Figures****Answer Figures**

(1)

(2)

(3)

(4)

**40.**

(1)

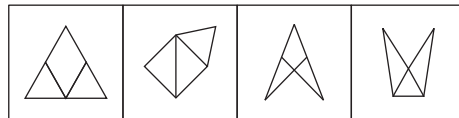
(2)

(3)

(4)

**Part IX**

**Directions (Q. Nos. 41-45)** A question figure is given on the left side and four answer figures, marked 1, 2, 3, 4 are given on the right side. Select the answer figure which can be formed from the cut-out pieces given in the question figure and write your answer only in english numbers (i.e. 1, 2, 3, 4) in the box against the number corresponding to the question.

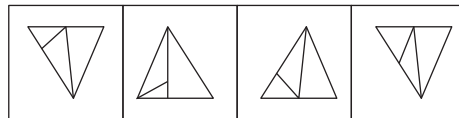
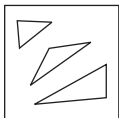
**41. Question Figure****Answer Figures**

(1)

(2)

(3)

(4)

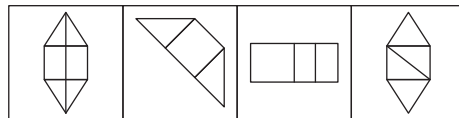
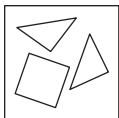
**42.**

(1)

(2)

(3)

(4)

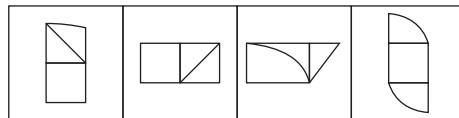
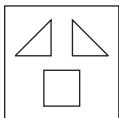
**43.**

(1)

(2)

(3)

(4)

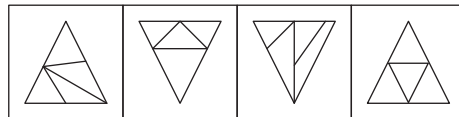
**44.**

(1)

(2)

(3)

(4)

**45.**

(1)

(2)

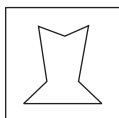
(3)

(4)

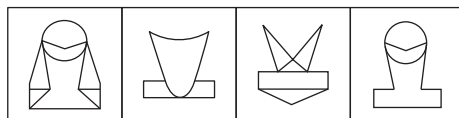
## Part X

**Directions (Q. Nos. 46-50)** A question figure is given on the left side and four answer figures, marked 1, 2, 3, 4 are given on the right side. Select the answer figures which the question figure is hidden/embedded and write your answer only in english numbers (i.e. 1, 2, 3, 4) in the box against the number corresponding to the question.

### 46. Question Figure



### Answer Figures



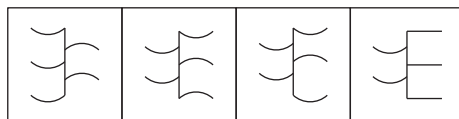
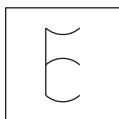
(1)

(2)

(3)

(4)

### 47.



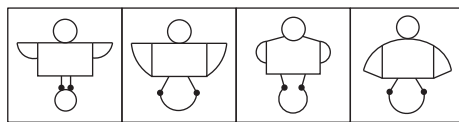
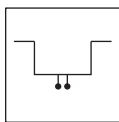
(1)

(2)

(3)

(4)

### 48.



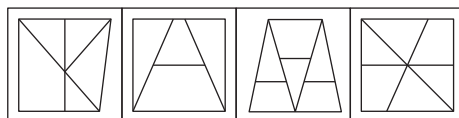
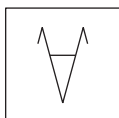
(1)

(2)

(3)

(4)

### 49.



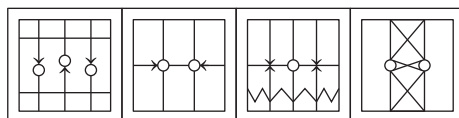
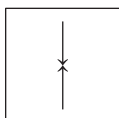
(1)

(2)

(3)

(4)

### 50.



(1)

(2)

(3)

(4)

## SECTION II : Arithmetic Test

**Directions (Q. Nos. 51-75)** For every question four probable answers bearing numbers 1, 2, 3 and 4 are given. Only one out of these is correct. You have to give the correct answer and write the number in the box against the number corresponding to the questions in the answer sheet.

**51.** If  $23200 \div 145 = 160$ , then  $232 \div 145$  is equal to

to

(1) 160

(2) 16

(3) 1.60

(4) 0.16

**52.** 84% is equal to

(1)  $\frac{42}{100}$ (2)  $\frac{42}{50}$ (c)  $\frac{84}{225}$ 

(d) 8.4



53. A man buys a TV at ₹ 18200. He spends ₹ 1800 on repairing of TV. If he want ₹ 3000 as profit. What is the selling price of TV?

(1) ₹ 20430 (2) ₹ 21200  
(3) ₹ 23000 (4) ₹ 25200

54. In what time ₹ 3500 will become ₹ 4130 when annual rate of interest is 6%.

(1) 4 yr (2) 3 yr (3) 6 yr (4) 5 yr

55. What is quotient when 76076 is divided by 13?

(1) 5652 (2) 5852 (3) 5762 (4) 5662

56. A common multiple of both 9 and 7 is A. This number is in between 1200 and 1300. What is number A?

(1) 1197 (2) 1260 (3) 1206 (4) 1266

57. 9, 13, 17, 21, 25, ?

What is the next term in the given series?

(1) 26 (2) 27 (3) 29 (4) 33

58. In which of the following numbers only one prime number lie.

(1) 40 and 50 (2) 60 and 70  
(3) 80 and 90 (4) 90 and 100

59. Find the sum of  $7.7 + 7.77 + 7.777 + 7.777$ .

(1) 28.2828 (2) 28.2847  
(3) 30.0247 (4) 31.0247

60. A rectangular plot has sides  $100\text{ m} \times 80\text{ m}$ . Find the length of wire to surround it three times.

(1) 180 m (2) 1080 m (3) 360 m (4) 720 m

61. A person covered  $47\frac{1}{2}$  km in one day. If the covered  $29\frac{1}{3}$  km by scooter,  $8\frac{5}{6}$  km by bicycle and rest of the distance on foot. Find the distance covered on foot?

(1)  $8\frac{1}{3}$  (2)  $10\frac{1}{3}$  (3)  $9\frac{1}{3}$  (4)  $12\frac{2}{3}$

62. 12 Men or 15 women can do a piece of work in 21 days. Find the number of days required to complete the same work by 6 men and 10 women.

(1) 15 (2) 18 (3) 21 (4) 24

63. A fish tank length, breadth and height is 40cm, 60cm and 50cm respectively. It contains 50 liter of water, How much water is needed to fill it completely.

(1) 50 L (2) 60 L (3) 70 L (4) 120 L

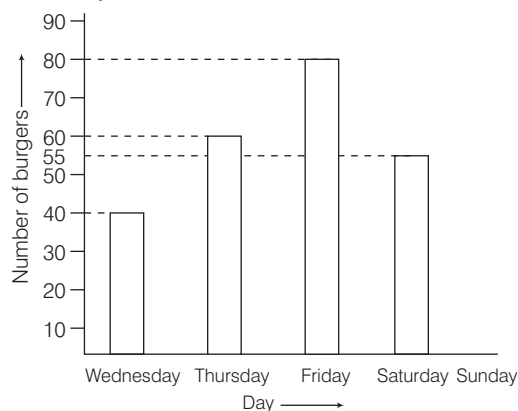
64. A store sells a packet of 5 apples in ₹25 and a single apple in ₹ 6, if a lady purchase 27 apples. How much money will she pay?

(1) ₹ 128 (2) ₹ 130 (3) ₹ 137 (4) ₹ 150

65. Kaku got 7 marks less than Bakshi while Raman got 3 marks more than Kaku. If the total marks obtained by all three is 76. Find the marks obtained by Raman.

(1) 22 (2) 25 (3) 29 (4) 31

66. The following bar diagram shows the sale (number of burgers) of a burger saler during 5 days.






















If total sale of burger was 320. Then number of burger sold on Sunday?

(1) 85 (2) 80 (3) 75 (4) 90

67. Four pieces of 75 cm were cut from a piece of 14m 25cm of fabric. Find the length of remaining fabric.

(1) 13 m 50 cm (2) 11 m 25 cm  
(3) 10 m 50 cm (4) 10m 25 cm

68. Pictograms shows the number of plants sold through a nursery from Monday to Friday

Days	Sold Plants
Monday	 
Tuesday	   
Wednesday	    
Thursday	  
Friday	    

 = 20 plants

Find the number of plants sold from Monday to Friday.

(1) 19 (2) 190 (3) 250 (4) 380

69. Find the differences between 5 digits greater and 5 digits smaller number with different digits.

(1) 41976 (2) 88531  
(3) 98531 (4) 108999

- 70.** Using the different digits, find the smallest number of 4 digits in which 9 is in tens place.  
 (1) 1290 (2) 1092  
 (3) 2091 (4) 2190
- 71.** Which is the smallest 5 digit number formed by digits 5,1,6 when two digits can be used twice?  
 (1) 11565 (2) 51156  
 (3) 11556 (4) 11655
- 72.** The HCF of two numbers 14 and 28 is 14. Find the LCM.  
 (1) 28 (2) 196 (3) 298 (4) 98
- 73.** What is the four digit smallest number which is completely divided by 2,3,8,10?  
 (1) 1020 (2) 1060  
 (3) 1080 (4) 1120
- 74.** The product of two numbers is 18.75. If one number is thrice of another. Find the larger number.  
 (1) 2.5 (2) 9.5 (3) 4.5 (4) 7.5
- 75.** Find the value of  $3 \times 0.3 \times 0.03 \times 0 \times 30$ .  
 (1) 81 (2) 8.1 (3) 0.81 (4) 0

## SECTION III : Language Test (English)

**Directions** (Q. Nos. 76-100) *Read the following passages carefully and answer the questions by choosing the options that you consider the most appropriate.*

### Passage I

Our voyage was very prosperous, but I shall not trouble the reader with a journal of it. The captain called in at one or two ports and sent in his long-boat for provisions and fresh water, but I never went out of the ship still we came into the Downs, which was on the 3rd day of June, 1706, about nine months after my escape. I offered to leave my goods in security for payment of my freight, but the captain protested he would not receive one farthing. We took kind leave of each other, and I made him promise that he would come to see me at my house in Redriff. I hired a house and a guide for five shillings which I borrowed from the captain.

- 76.** When the writer uses the word 'prosperous' to describe the voyage, he means that  
 (1) it made him rich (2) it made him healthy  
 (3) it was very pleasant (4) it was uneventful
- 77.** On the voyage, the author  
 (1) left the ship at intervals  
 (2) was not able to leave the ship because it did not stop  
 (3) never left the ship at all  
 (4) never left the ship till they came into the Downs
- 78.** In the context of the passage, the word 'provisions' means  
 (1) mainly food (2) mainly security  
 (3) money (4) mainly ammunition
- 79.** For the payment of the author's freight, the captain  
 (1) kept his goods as security  
 (2) refused to accept any money  
 (3) protested against being paid only a farthing  
 (4) accepted a sum of money
- 80.** From the passage, it is clear that the captain's attitude to the author was  
 (1) one of hostility  
 (2) one of indifference  
 (3) one of extreme friendliness and kindness  
 (4) one of disgust and irritation

### Passage II

A story tells that two friends were walking through the desert. During some point of the journey they had an argument, and one friend slapped the other one in the face. The one who got slapped was hurt, but without saying anything, wrote in the sand: "TODAY MY BEST FRIEND SLAPPED ME IN THE FACE." They kept on walking until they found an oasis, where they decided to take a bath. The one who had been slapped got stuck in the mire and started drowning, but the friend saved him. After the friend recovered from the near drowning, he wrote on a stone: "TODAY MY BEST FRIEND SAVED MY LIFE." The friend who had slapped and saved his best friend asked him, "After I hurt you, you wrote in the sand, and now, you write on a stone. Why?"

The other friend replied: "When someone hurts us, we should write it down in sand where winds of forgiveness can erase it away. But, when someone does something good for us, we must **engrave** it in stone where no wind can ever erase it."

- 81.** Why did the friend who got hurt write on the sand?  
 (1) Because he was very kind-hearted  
 (2) Because he was too weak to take revenge  
 (3) Because he knew that his feeling of hurt was temporary  
 (4) Because he loved his friend too much
- 82.** What is an oasis?  
 (1) An oasis is a tall tree found in a desert.  
 (2) An oasis is a water body found in a desert.  
 (3) An oasis is a creature like centipede.  
 (4) An oasis is grassland.
- 83.** What did one of the friends do after recovering from the near drowning?  
 (1) He rebuked his friend.  
 (2) He avenged by slapping his friend in his face.  
 (3) He wrote something on sand in his praise.  
 (4) He wrote something about his friend to express his gratitude.
- 84.** What does writing on the stone suggest?  
 (1) Writing something on stone means expressing one's love for another.  
 (2) Writing on stone means writing something with an intention to make it last forever.  
 (3) Writing something on stone means expressing one's extreme anger.  
 (4) Writing something on stone means writing something with a view to preaching one and all.
- 85.** What is the synonym of the word 'engrave' as used in the passage?  
 (1) dislodge (2) neglect  
 (3) aid (4) inscribe

### Passage III

I woke up one August morning in a warm sweat. I ran to the refrigerator to get a cold drink, but the refrigerator was broken and all the drinks were as hot as me. I walked over to my electric fan, but it wasn't working either. I then turned on the television and finally realized that the electricity in my house was out. Later that day, I went to the pool to cool off. I dived right in! I swam eight laps before I got tired. My friend Lucy then bought me an ice-cream cone. I got a vanilla ice-cream cone with rainbow sprinkles. Even though it was really hot, I did have a lot of fun.

- 86.** What did the narrator want from the refrigerator?  
 (1) a ham sandwich (2) a fan  
 (3) a drink (4) an apple
- 87.** Why does the electric fan not work?  
 (1) it was broken  
 (2) it needed batteries  
 (3) the power was out  
 (4) it wasn't oiled
- 88.** How many laps did it take for the narrator to tire of the pool?  
 (1) two (2) four (3) six (4) eight
- 89.** Who bought the narrator an ice-cream cone?  
 (1) Lucy (2) Sam (3) Peter (4) Prince
- 90.** What was the flavour of the ice-cream?  
 (1) rainbow (2) vanilla  
 (3) chocolate (4) strawberry

### Passage IV

Once upon a time I went for a week's holiday in the Continent with an Indian friend. We both enjoyed ourselves and were sorry when the week was over, but on parting our behaviour was absolutely different. He was plunged in despair. He felt that because the holiday was over all happiness was over until the world ended. He could not express his sorrow too much, but in me the Englishman came out strong. I could not see what there was to make a fuss about. It was not as if we were parting forever or dying. 'Buck up', I said, 'do buck up'. He refused to buck up, and I left him plunged in gloom.

- 91.** What is the Continent in the context of the passage?  
 (1) An island (2) The countryside  
 (3) African safari (4) Europe
- 92.** What does the author mean by 'buck up'?  
 (1) Buckle yourself up  
 (2) Stand up  
 (3) Cheer up  
 (4) Shut up

**93.** Why was the Indian friend plunged in despair?

- (1) He was hopeless
- (2) He experienced racial discrimination
- (3) He would never be so happy again
- (4) He had spend lot of money

**94.** What does 'but in me the Englishman came out strong' imply?

- (1) He was strong Englishman

- (2) He had the typical English character
- (3) The Englishman went out of him
- (4) He started following Indian traditions

**95.** What is the author's intension in the passage?

- (1) To contrast the Indian character with the English character
- (2) To show that an Indian is sorrowful
- (3) To ridicule the Indian traditions
- (4) To praise the Englishman

## Passage V

One day a wolf found a sheepskin. He covered himself with the sheepskin and got into a flock of sheep grazing in a field. He thought, "The shepherd will shut the sheep in the pen after sunset. At night I will run away with a fat sheep and eat it."

All went well till the shepherd shut the sheep in the pen and left. The wolf waited patiently for the night to advance and grow darker. But then an unexpected thing happened. One of the servants of the shepherd entered the pen. His master had sent him to bring a fat sheep for supper. As luck would have it, the servant picked up the wolf dressed in the sheepskin. That night the shepherd and his guests had wolf for supper.

**96.** Why did the wolf cover himself with the sheepskin and get into a flock of sheep?

- (1) He wanted to look like a beautiful sheep.
- (2) He wanted to eat a sheep.
- (3) He wanted to enter into the pen.
- (4) He wanted to make friends with the sheep.

**97.** How did the wolf meet his end?

- (1) All the sheep attacked the wolf and killed him.
- (2) The shepherd recognised the wolf in sheep's clothing and killed him.
- (3) The shepherd's servant picked up the wolf dressed in the sheepskin for supper.
- (4) The wolf died of a serious disease.

**98.** What is the moral of the passage?

- (1) An evil design has an evil end.
- (2) Pen is mightier than the sword.
- (3) Might is right
- (4) Die in harness

**99.** Why did the servant pick the wolf for supper? Select the most appropriate answer.

1. Because he wanted to have the tasty meat of wolf.
  2. Because the wolf was in sheep's clothing.
  3. Because the servant thought the wolf to be a fat sheep.
- (1) Only 1    (2) Only 2    (3) Only 3    (4) Only 1 and 2

**100.** What is the antonym of the word 'shut' as used in the passage?

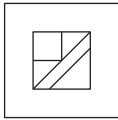
- (1) kill    (2) close    (3) imprison    (4) free

## Answers

<b>1</b>	(2)	<b>2</b>	(1)	<b>3</b>	(4)	<b>4</b>	(2)	<b>5</b>	(2)	<b>6</b>	(3)	<b>7</b>	(2)	<b>8</b>	(3)	<b>9</b>	(4)	<b>10</b>	(1)
<b>11</b>	(3)	<b>12</b>	(1)	<b>13</b>	(4)	<b>14</b>	(4)	<b>15</b>	(4)	<b>16</b>	(2)	<b>17</b>	(2)	<b>18</b>	(4)	<b>19</b>	(3)	<b>20</b>	(2)
<b>21</b>	(4)	<b>22</b>	(3)	<b>23</b>	(2)	<b>24</b>	(2)	<b>25</b>	(3)	<b>26</b>	(3)	<b>27</b>	(3)	<b>28</b>	(2)	<b>29</b>	(1)	<b>30</b>	(2)
<b>31</b>	(4)	<b>32</b>	(2)	<b>33</b>	(2)	<b>34</b>	(3)	<b>35</b>	(4)	<b>36</b>	(3)	<b>37</b>	(4)	<b>38</b>	(1)	<b>39</b>	(3)	<b>40</b>	(2)
<b>41</b>	(1)	<b>42</b>	(4)	<b>43</b>	(2)	<b>44</b>	(2)	<b>45</b>	(1)	<b>46</b>	(1)	<b>47</b>	(3)	<b>48</b>	(1)	<b>49</b>	(3)	<b>50</b>	(3)
<b>51</b>	(2)	<b>52</b>	(2)	<b>53</b>	(3)	<b>54</b>	(2)	<b>55</b>	(2)	<b>56</b>	(2)	<b>57</b>	(3)	<b>58</b>	(4)	<b>59</b>	(4)	<b>60</b>	(2)
<b>61</b>	(3)	<b>62</b>	(2)	<b>63</b>	(3)	<b>64</b>	(3)	<b>65</b>	(2)	<b>66</b>	(1)	<b>67</b>	(2)	<b>68</b>	(4)	<b>69</b>	(2)	<b>70</b>	(2)
<b>71</b>	(3)	<b>72</b>	(1)	<b>73</b>	(3)	<b>74</b>	(4)	<b>75</b>	(4)	<b>76</b>	(3)	<b>77</b>	(4)	<b>78</b>	(1)	<b>79</b>	(2)	<b>80</b>	(3)
<b>81</b>	(3)	<b>82</b>	(2)	<b>83</b>	(4)	<b>84</b>	(2)	<b>85</b>	(4)	<b>86</b>	(3)	<b>87</b>	(3)	<b>88</b>	(4)	<b>89</b>	(1)	<b>90</b>	(2)
<b>91</b>	(4)	<b>92</b>	(3)	<b>93</b>	(1)	<b>94</b>	(2)	<b>95</b>	(1)	<b>96</b>	(2)	<b>97</b>	(3)	<b>98</b>	(1)	<b>99</b>	(3)	<b>100</b>	(4)

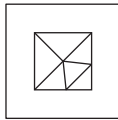
# Hints and Solutions

1. Figure number (2) is different from other in given four figures.
2. Figure number (1) is different from given figures.
3. Figure number (4) is different from given figures.
4. Figure number (2) is different from given figures.
5. Figure number (2) is different from given figures.
6. Answer figure (3) is same as given question figures.
7. Answer figure (2) is same as given question figures.
8. Answer figures (3) is same as given question figures.
9. Answer figure (4) is same as given question figures.
10. Answer figure (1) is same as given question figures.
11. Answer figure (3) will be complete the pattern of given question figure.



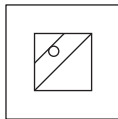
(3)

12. Answer figure (1) will be complete the pattern of given question figure.



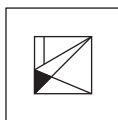
(1)

13. Answer figure (4) will be complete the pattern to given question figure.



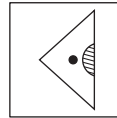
(4)

14. Answer figure (4) will be complete the pattern of given question figure.



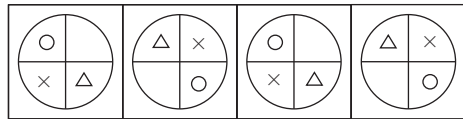
(4)

15. Answer figure (4) will be complete the pattern of given question figure.



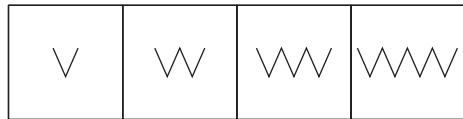
(4)

16. The following pattern of series is.



Answer figure (2) will complete the series.

17. The following pattern of series is



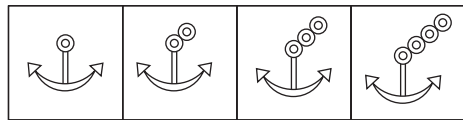
Answer figure (2) will be come in the place of blank in given series.

18. The following pattern of the series is



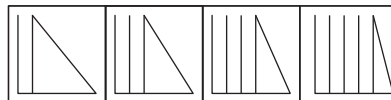
Answer figure (4) will come in the place to blank in given question figure.

19. The following pattern of the series is



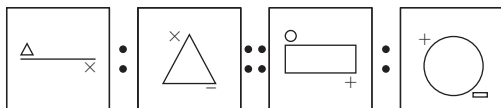
Answer figure (3) will be come in the place of blank in the given question figure.

20. One line in added vertically in each step. So, Answer figure (2) will come in the blank space.



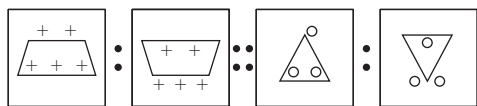
21. In the given first two question figures, 1st figure gets enlarged. Second figure go to bottom and 3rd figure go on Top.

Similarly, figure (4) follows the correct pattern



22. In the given question, outer figure (i.e. '+' ) come inside and inner figure goes outside. Also, the trapezium gets inverted.

Similarly, figure number (3) follows the correct pattern.



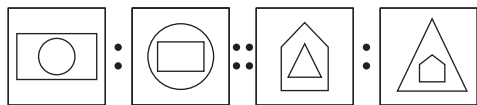
23. Here, figure rotates 90° clock wise.



24. The overlapping lines join to form a closed figure and the vertices get shaded..



25. Both the figures interchange their position.



26. Answer figure (3) is the missing part of the given question figure.
27. Answer figure (3) is the missing part of the given question figure.
28. Answer figure (2) is the missing part of the given question figure which will complete the figure.
29. Answer figure (1) is the missing part of the given question figure.
30. Answer figure (2) is the missing part of the given question figure.
31. Answer figure (4) is the correct mirror image of the given question figure.
32. Answer figure (2) is the correct mirror image of the given question figure.
33. Answer figure (2) is the correct mirror image of the given question figure.

34. Answer figure (3) is the correct mirror image of the given question figure.

35. Answer figure (4) is the correct mirror image of the given question figure.

36. When we open the question figure, it appears as answers figure (3).

37. When we open the given question figure, it appears as answer figure (4).

38. When we open the given question figure, it appears as answer figure (1).

39. When we open the given question figure, it appears as answer figure (3).

40. When we open the given question figure, it appears as answer figure (2).

41. After combining all parts the of given question figure answer figure(1) will be formed.

42. After combining all parts the of given question figure answer figure(4) will be formed.

43. After combining all parts the of given question figure answer figure(2) will be formed.

44. After combining all parts the of given question figure answer figure(2) will be formed.

45. After combining all parts the of given question figure answer figure(1) will be formed.

46. The given question figure is hidden/embedded in answer figure(1).

47. The given question figure is hidden/embedded in answer figure (3).

48. The given question figure is hidden /embedded in answer figure (1).

49. The given question figure is hidden/embedded in answer figure (3).

50. The given question figure is hidden/embedded in answer figure (3).

51.  $23200 \div 145 = 160$  [given]  
 $\therefore 232 \div 1.45 = \frac{2320}{145} = 16$

52.  $84\% = \frac{84}{100} = \frac{42}{50}$

53. Total cost price of TV = ₹ (18200 + 1800) = ₹ 20000  
 Profit = ₹ 3000 [given]

We know that,

$$\text{Selling price} = \text{Cost price} + \text{Profit} \\ = 20000 + 3000 = ₹ 23000$$

54. Simple interest = 4130 – 3500 = 630

We know that,  $SI = \frac{P \times R \times T}{100}$

where,  $P$  = Principal,  $R$  = Rate,  $T$  = Time

$$630 = \frac{3500 \times 6 \times T}{100}$$

$$T = \frac{630}{35 \times 6} = \frac{630}{210} = 3 \text{ Yr}$$

55.  $13 \overline{)76076}$  5852 quotient

$$\begin{array}{r} 65 \\ 110 \\ \underline{104} \\ 67 \\ 65 \\ \underline{26} \\ 26 \\ \underline{0} \end{array}$$

0 Remainder.

56. A common multiple of 9 and 7 both is A. Then number will completely divide both 9 and 7. We observed that only two number 1197 and 1260 is completely divide by 9 and 7. But only number 1260 is in between 1200 and 1300.

Thus, the number A is 1260.

57. The series follows the pattern as

$$\begin{aligned} 9 + 4 &= 13 \\ 13 + 4 &= 17 \\ 17 + 4 &= 21 \\ 21 + 4 &= 25 \\ 25 + 4 &= \boxed{29} \end{aligned}$$

Therefore, 29 is the next term in the given series.

58. Between 90 and 100 only one prime number '97' exist.

59.

$$\begin{array}{r} 7.7000 \\ 7.7700 \\ 7.7770 \\ +7.7777 \\ \hline 31.0247 \end{array}$$

60. Given,

length of rectangular plot = 100m

Breadth of rectangular of plot = 80 m

As we know that perimeter of plot  
= 2 (length + Breadth)

Perimeter =  $2(100+80)$

$$= 2 \times 180 = 360 \text{ m}$$

length of wire to surround it three times

$$= 3 \times 360 = 1080 \text{ m}$$

61. Total distance =  $47\frac{1}{2} \text{ km} = \frac{95}{2} \text{ km}$

Distance covered by scooter =  $29\frac{1}{3} \text{ km} = \frac{88}{3} \text{ km}$

Distance covered by bicycle =  $8\frac{5}{6} = \frac{53}{6} \text{ km}$

Now, distance covered on foot =  $\frac{95}{2} - \frac{88}{3} - \frac{53}{6}$

$$\begin{aligned} \frac{95}{2} - \frac{88}{3} - \frac{53}{6} &= \frac{285 - 176 - 53}{6} = \frac{56}{6} \\ &= \frac{28}{3} \text{ km} = 9\frac{1}{3} \text{ km} \end{aligned}$$

62. 12 men = 15 women

$$1 \text{ man} = \frac{15}{12} \text{ women}$$

$$1 \text{ man} = \frac{5}{4} \text{ women}$$

$\therefore$  6 men + 10 women

$$= \left( 6 \times \frac{5}{4} + 10 \right) = \left( \frac{15}{2} + 10 \right) = \frac{35}{2} \text{ women}$$

$$\therefore M_1 = 15, D_1 = 21, M_2 = \frac{35}{2}, D_2 = ?$$

$$W_1 = W_2 = 1$$

Therefore by using formula

$$M_1 D_1 W_2 = M_2 D_2 W_1$$

$$15 \times 21 \times 1 = \frac{35}{2} \times D_2 \times 1$$

$$D_2 = \frac{15 \times 21 \times 2}{35} = 18 \text{ days}$$

63. Amount of water stored in the tank = Volume of the tank

$\therefore$  Volume of tank = length  $\times$  breadth  $\times$  Height

$$\therefore V = 40 \times 60 \times 50$$

$$V = 120000 \text{ cm}^3$$

As  $1000 \text{ cm}^3$  1 litre

$$\therefore V = 120 \text{ L}$$

As tank already stored 50 liters of water.

$\therefore$  Amount of water to fill the tank completely  
 $= 120 - 50 = 70 \text{ L}$

64. Price of packet of 5 apples is ₹ 25.

Price of a single apple = ₹ 6

Now, 27 apples =  $5 \times 5$  packet + 2 apple

$$= 5 \times 25 + 2 \times 6 = 125 + 12 = ₹ 137$$

$\therefore$  Price of 27 apples = ₹ 137

65.  $\therefore$  Let marks obtained by Kaku = x

Marks obtained by Raman = x + 3

Marks obtained by Bakshi = x + 7

According to the question

$$x + x + 3 + x + 7 = 76$$

$$3x + 10 = 76 \Rightarrow 3x = 66 = 22$$

$\therefore$  Marks obtains by Raman = x + 3 = 22 + 3 = 25

66. Total sale of Burger = 320

Burger sold on Wednesday = 40

Burger sold on Thursday = 60

Burger sold on Friday = 80

Burger sold on Saturday = 55

Now, burger sold on Sunday = Total sale – Sale on  
(Wed + Thu + Fri + Sat)

$$= 320 - (40 + 60 + 80 + 55)$$

$$= 320 - 235 = 85$$

- 67.** Total length of fabric = 14m 25cm  
 $= 1400 + 25 = 1425\text{cm}$   
 Length of 4 pieces of 75cm =  $75 \times 4 = 300\text{cm}$   
 Remaining length =  $1425\text{cm} - 300\text{cm}$   
 $= 1125\text{cm} = 11\text{m } 25\text{cm}$

- 68.** Number of plant sold from Monday to Friday  
 $= 20 \times (2 + 4 + 5 + 3 + 5)$   
 $= 20 \times 19$   
 $= 380$

- 69.** 5 digit largest number = 98765  
 5 digit smaller number = 10234  
 Required difference =  $98765 - 10234 = 88531$

- 70.** The smallest number of four digits by using different digit = 1092

- 71.** The 5 digit smallest number using digit 5, 1, 6 by using two digits twice = 11556

- 72.** We know that,

$$\begin{aligned}\text{Product of two numbers} &= \text{HCF} \times \text{LCM} \\ 14 \times 28 &= 14 \times \text{LCM} \\ \text{LCM} &= \frac{14 \times 28}{14} = 28\end{aligned}$$

- 73.** LCM of 2, 3, 8, 10

2	2	3	8	10
3	1	3	4	5
4	1	1	4	5
5	1	1	1	5
	1	1	1	1

$$= 2 \times 3 \times 4 \times 5 = 120$$

$\therefore$  The four digit smallest number is multiple of 120  
 $= 120 \times 9 = 1080$

- 74.** Let smaller number =  $x$

Larger number =  $3x$

According to the question

$$x \times 3x = 18.75$$

$$3x^2 = 18.75$$

$$x^2 = 6.25$$

$$x = \sqrt{6.25} = 2.5$$

$\therefore$  Larger number =  $3x = 3 \times 2.5 = 7.5$

- 75.** Any number multiplied by zero we get zero as resultant.  
 $\therefore 3 \times 0.3 \times 0.03 \times 0 \times 30 = 0$

- 76.** When the writer uses the word 'prosperous' to describe the voyage, he means that it was very pleasant.

- 77.** On the voyage, the author never left the ship till they came into the Downs.

- 78.** Here the word 'provisions' means 'food'.

- 79.** The captain of the ship refused to accept any money for the payment of the author's freight.

- 80.** It can be inferred from the passage that the captain's attitude to the author was one of extreme friendliness and kindness.

- 81.** The friend who got hurt wrote on the sand because he knew that his feeling of hurt was temporary.

- 82.** An oasis is a water body found in a desert.

- 83.** One of the friends wrote "TODAY MY BEST FRIEND SAVED MY LIFE" on a stone about his friend to express his gratitude after recovering from the near drowning.

- 84.** Writing on stone means writing something with an intention to make it last forever.

- 85.** Both 'engrave' and 'inscribe' mean cut or carve (a text or design) on the surface of a hard object. Hence, they are synonyms.

- 86.** The narrator wanted a cold drink from the refrigerator.

- 87.** The electric fan was not working because the power was out.

- 88.** The narrator swam eight laps of the pool before he got tired.

- 89.** The narrator's friend Lucy bought him an ice-cream cone.

- 90.** It was a vanilla ice-cream with rainbow sprinkles.

- 91.** Europe is the continent in the context of the passage.

- 92.** The author means 'cheer up' by 'buck up'.

- 93.** The Indian friend was plunged in despair because he was hopeless.

- 94.** The clause 'but in me the Englishman came out strong' implies that he had the typical English character.

- 95.** The author's intension in the passage is to contrast the Indian character with the English character.

- 96.** The wolf covered himself with the sheepskin and get into a flock of sheep because he wanted to eat a sheep.

- 97.** The wolf met his end as the shepherd's servant picked up the wolf dressed in the sheepskin for supper.

- 98.** 'An evil design has an evil end' is the moral of the passage.

- 99.** The servant picked the wolf for supper because he thought the wolf to be a fat sheep.

- 100.** According to the passage, the word 'shut' means 'keep in a place by closing something such as a door' hence 'free' is the appropriate antonym of it.