

# Previous Paper (Solved)

## JAWAHAR NAVODAYA VIDYALAYA

### Class-VI, Entrance Exam, 2017

#### SECTION-I : MENTAL ABILITY TEST

##### PART-I

**Directions (Qs. 1-5) :** In the following four figures (A), (B), (C) and (D) are given, three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.

1. 

+	×
=	○

×	○
▽	=

○	=
×	+

=	+
○	×

  
A.                      B.                      C.                      D.
2. 

□	→
---	---

□	↑
---	---

↑	□
---	---

←	□
---	---

  
A.                      B.                      C.                      D.
3. 

□
---

▽
---

△
---

△
---

  
A.                      B.                      C.                      D.
4. 

△
---

△
---

△
---

△
---

  
A.                      B.                      C.                      D.
5. 

△
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△
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△
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△
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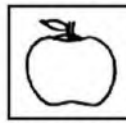
  
A.                      B.                      C.                      D.

##### PART-II

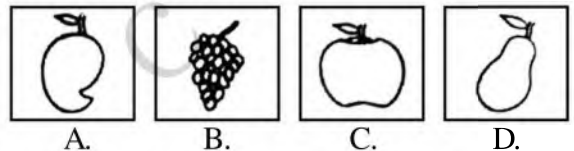
**Directions (Qs. 6-10) :** In the given question figure followed by four alternatives (A), (B), (C) and (D).

Select the figure from answer list which is exactly similar to question figure.

##### 6. Question Figure



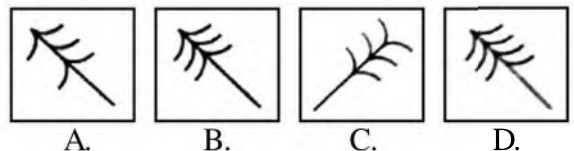
##### Answer Figures



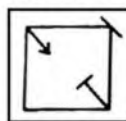
##### 7. Question Figure



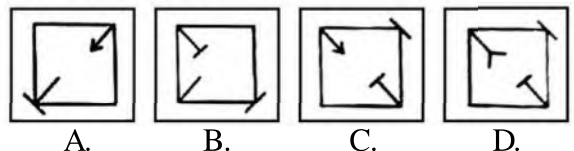
##### Answer Figures



##### 8. Question Figure



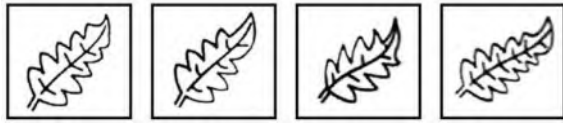
##### Answer Figures



##### 9. Question Figure



**Answer Figures**

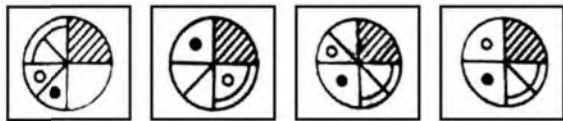


A. B. C. D.

**10. Question Figure**



**Answer Figures**

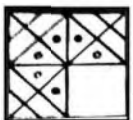


A. B. C. D.

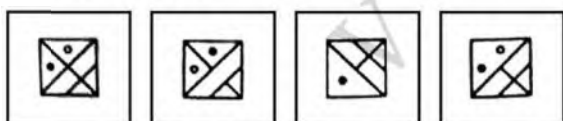
**PART-III**

**Directions (Qs. 11-15) :** In question figure is given followed by four alternatives. Select a figure from the four alternatives, which when placed in the blank space of question figure would complete the pattern of question figure without altering the direction of answer figure.

**11. Question Figure**



**Answer Figures**

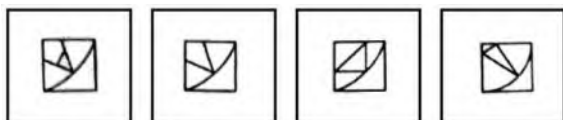


A. B. C. D.

**12. Question Figure**

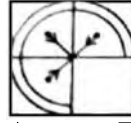


**Answer Figures**

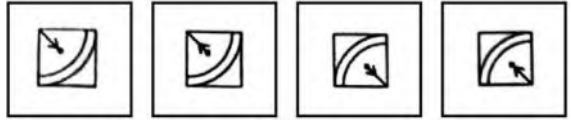


A. B. C. D.

**13. Question Figure**

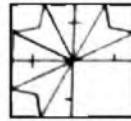


**Answer Figures**

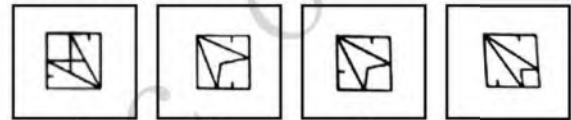


A. B. C. D.

**14. Question Figure**

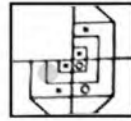


**Answer Figures**

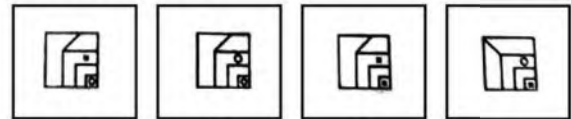


A. B. C. D.

**15. Question Figure**



**Answer Figures**



A. B. C. D.

**PART-IV**

**Directions (Qs. 16-20) :** Three complete and fourth blank space is given, choose the set of figures which follows the rule and would replace the blank space given in question figure from the four alternatives given.

**16. Question Figure**

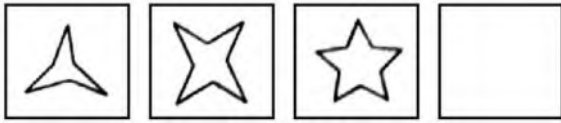


**Answer Figures**

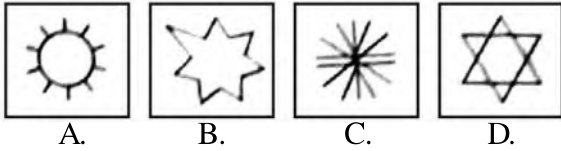


A. B. C. D.

17. Question Figure



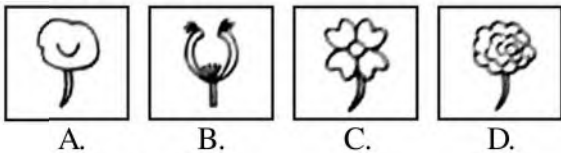
Answer Figures



18. Question Figure



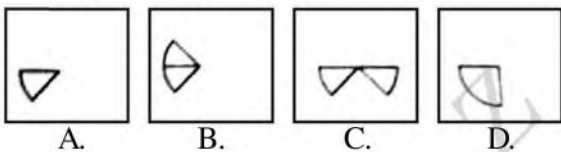
Answer Figures



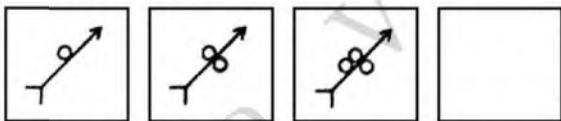
19. Question Figure



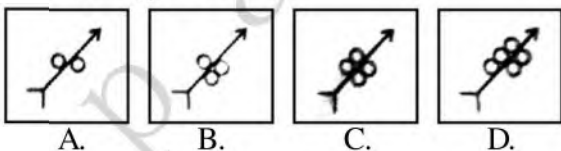
Answer Figures



20. Question Figure



Answer Figures



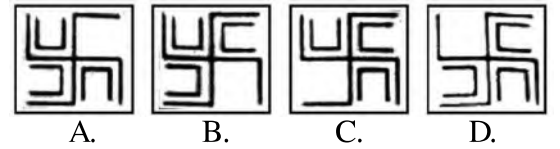
PART-V

**Directions (Qs. 21-25) :** There are two sets of figure given. There is a definite relationship between first two. Establish a similar relationship between third and fourth by selecting a suitable figure from answer that would replace the question mark.

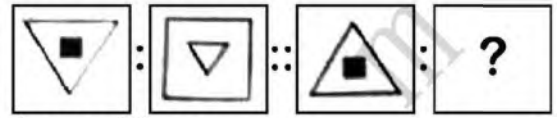
21. Question Figure



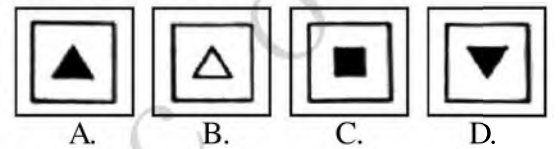
Answer Figures



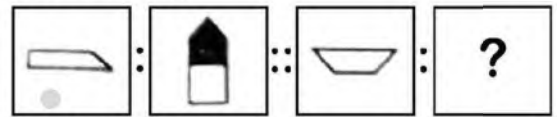
22. Question Figure



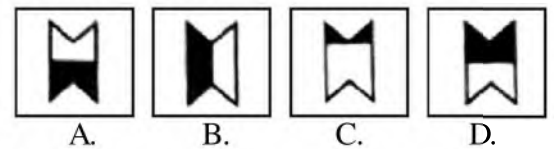
Answer Figures



23. Question Figure



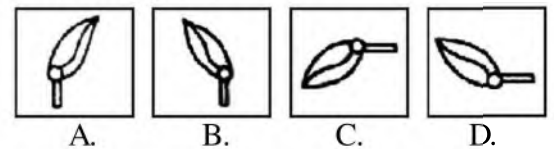
Answer Figures



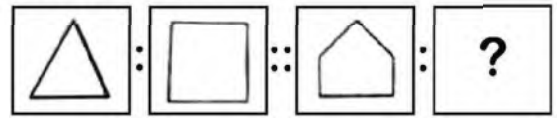
24. Question Figure



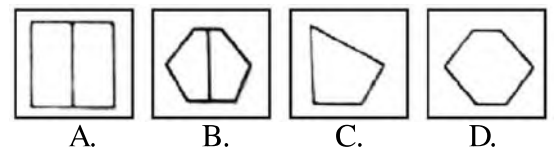
Answer Figures



25. Question Figure



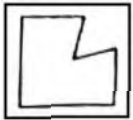
Answer Figures



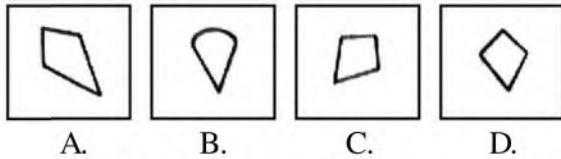
### PART-VI

**Directions (Qs. 26-30) :** There are four alternatives (A), (B), (C) and (D) given. You have to select the alternatives which completes squares given in the question figure.

#### 26. Question Figure



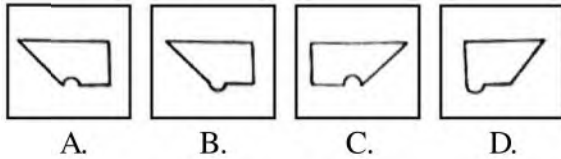
Answer Figures



#### 27. Question Figure



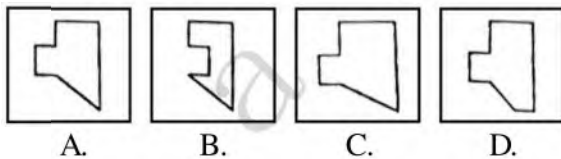
Answer Figures



#### 28. Question Figure



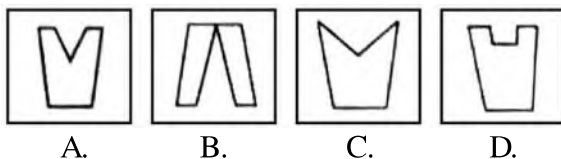
Answer Figures



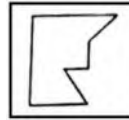
#### 29. Question Figure



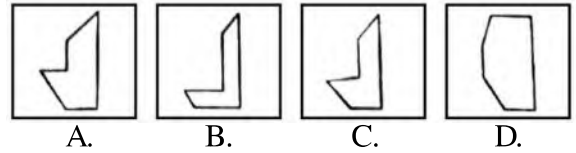
Answer Figures



#### 30. Question Figure



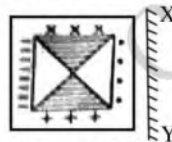
Answer Figures



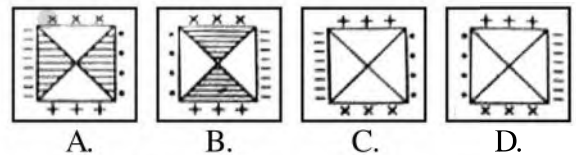
### PART-VII

**Directions (Qs. 31-35) :** There are four alternatives (A), (B), (C) and (D) given. You have to choose the correct mirror image of the question figure, when the mirror held on the line XY.

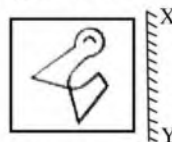
#### 31. Question Figure



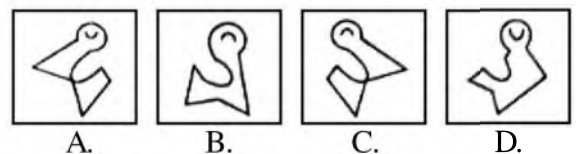
Answer Figures



#### 32. Question Figure



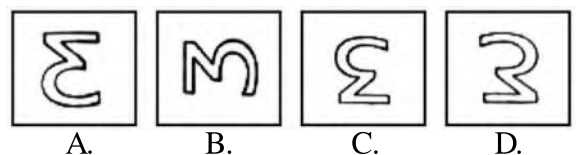
Answer Figures



#### 33. Question Figure



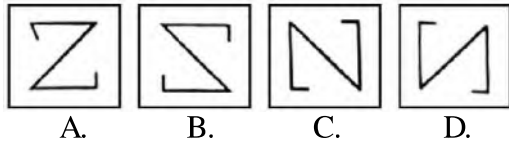
Answer Figures



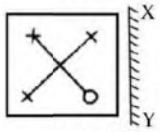
**34. Question Figure**



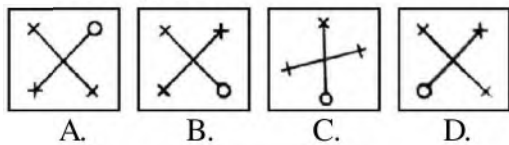
**Answer Figures**



**35. Question Figure**



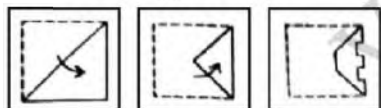
**Answer Figures**



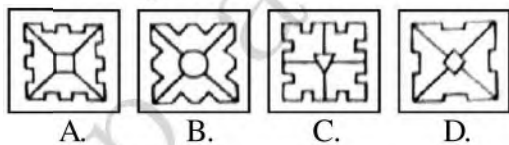
**PART-VIII**

**Directions (Qs. 36-40) :** Consist a set of three figures showing a sequence of folding a piece of paper third question figures shows to manner in which the folded paper has been punched. These three figures are followed by four answer figures from which you have to choose a figure which would most closely resemble the unfolded form of third figure of question.

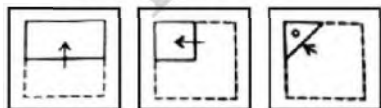
**36. Question Figure**



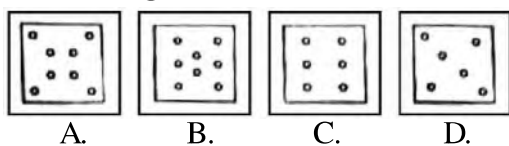
**Answer Figures**



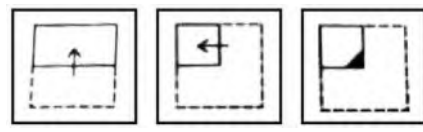
**37. Question Figure**



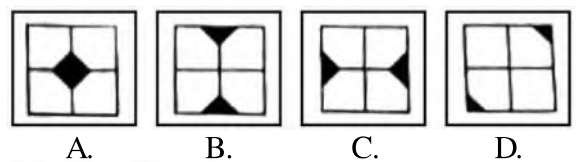
**Answer Figures**



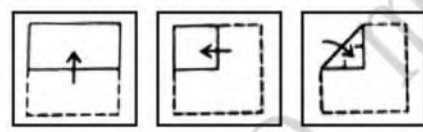
**38. Question Figure**



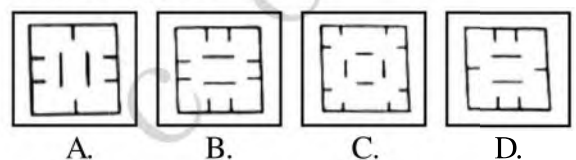
**Answer Figures**



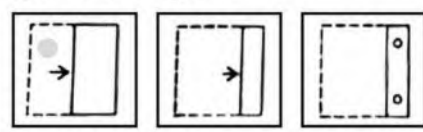
**39. Question Figure**



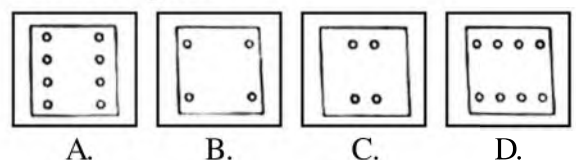
**Answer Figures**



**40. Question Figure**



**Answer Figures**



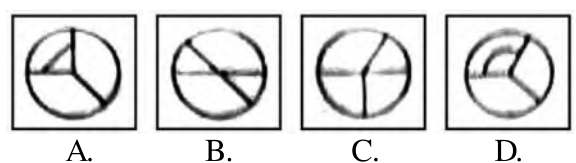
**PART-IX**

**Directions (Qs. 41-45) :** Question figure is followed by four alternatives, find out which of the figure from (A), (B), (C) and (D) can be formed from the pieces given in question figure.

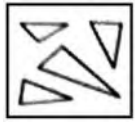
**41. Question Figure**



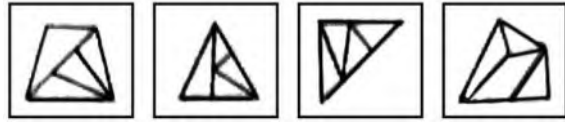
**Answer Figures**



42. Question Figure

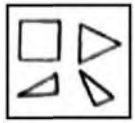


Answer Figures

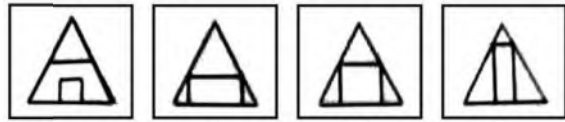


A. B. C. D.

43. Question Figure



Answer Figures

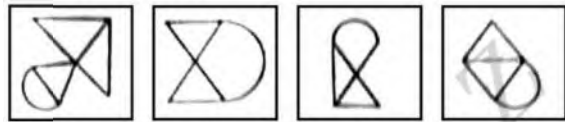


A. B. C. D.

44. Question Figure

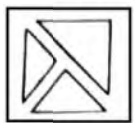


Answer Figures

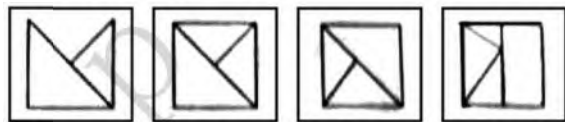


A. B. C. D.

45. Question Figure



Answer Figures



A. B. C. D.

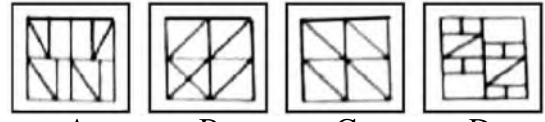
**PART-X**

**Directions (Qs. 46-50) :** Question figure is followed by four Answer figures namely A, B, C and D. Find out the correct Answer figure from the given alternatives in which Question figure is hidden.

46. Question Figure

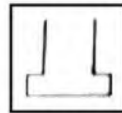


Answer Figures



A. B. C. D.

47. Question Figure



Answer Figures

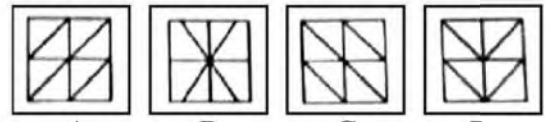


A. B. C. D.

48. Question Figure



Answer Figures

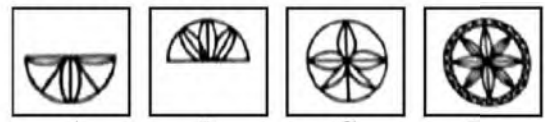


A. B. C. D.

49. Question Figure

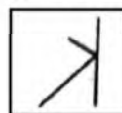


Answer Figures

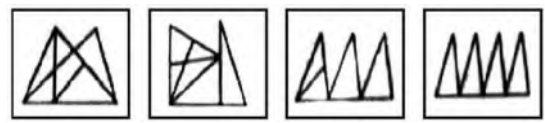


A. B. C. D.

50. Question Figure



Answer Figures



A. B. C. D.

## SECTION-II : MATHEMATICS

**Directions :** In the following questions, each question has given four options as (A), (B), (C) and (D). Select the correct answer and write it in the answer sheet.

51. If  $5.28 \times 0.8 = 4.224$ , then what is the value of  $52.8 \times 0.8$ ?  
 A. 42.24                      B. 4.224  
 C. 422.4                      D. 4224
52. What is 6% of 800?  
 A. 12                      B. 48  
 C. 80                      D. 60
53. A man purchased a scooter in ₹ 47,000. He spent ₹ 3,000 on its repairing. He sold it in ₹ 52,000. What is his gain or loss per cent?  
 A. Loss 4%                      B. Profit 8%  
 C. Profit 4%                      D. Loss 8%
54. In how many years any amount will be doubled at rate of 10% simple interest annually?  
 A. 2 years                      B. 5 years  
 C. 10 years                      D. 15 years
55. What will be the prime factors of the following?  
 A.  $2 \times 2 \times 2 \times 2 \times 2$                       B.  $3 \times 3 \times 2 \times 2$   
 C.  $2 \times 2 \times 8$                       D.  $2 \times 2 \times 2 \times 4$
56. Which of the following numbers that divisible by 8 but not divisible by 12?  
 A. 24, 48, 72                      B. 8, 16, 24  
 C. 12, 24, 36                      D. 96, 192, 288
57. What is the next term of the series 1, 2, 4, 8, 16, .....?  
 A. 20                      B. 64  
 C. 24                      D. 32
58. Which number of the following is not equal to 2.4?  
 A.  $2\frac{2}{5}$                       B. 22.5%  
 C.  $\frac{12}{5}$                       D.  $2\frac{4}{10}$
59. What will be the sum of 6.666, 6.66 and 6.06?  
 A. 1.9386                      B. 19.386  
 C. 193.86                      D. 1938.6
60. The length and breadth of a hall are 24 m and 20 m respectively. How many tiles of size  $0.4 \text{ m} \times 0.3 \text{ m}$  each are needed in flooring it?  
 A. 1500                      B. 4000  
 C. 3000                      D. 2500
61. What is the HCF of 64, 120 and 144?  
 A. 4                      B. 8  
 C. 12                      D. 8640
62. A is a number. Adding 5 and multiplying by 10. Subtract 8 from this multiplication is divided by 2, then the result becomes 151. What is the number A?  
 A. 14                      B. 18  
 C. 26                      D. 32
63. What is the product of  $23208 \times 254 \times 0 \times 126$ ?  
 A. 15351470                      B. 189765  
 C. 0                      D. 232080
64. Write in ascending order of the following: 30030, 30330, 30033  
 A. 30330, 30033, 30030  
 B. 30033, 30030, 30330  
 C. 30033, 30330, 30030  
 D. 30030, 30033, 30330
65. What is the difference between the greatest of six digit number and the smallest of six digit number?  
 A. 999990                      B. 899990  
 C. 989990                      D. 899999
66. What is the LCM of 84, 140 and 70?  
 A. 210                      B. 420  
 C. 630                      D. 294
67. A man sold a car for ₹ 42,000 at a loss of 16%. What was the cost price of the car?  
 A. ₹ 68,000                      B. ₹ 50,000  
 C. ₹ 26,000                      D. ₹ 26,250
68. The simple interest on ₹ 28,000 for four years is ₹ 7,000, what is the rate per cent per annum?  
 A. 5%                      B.  $6\frac{1}{4}\%$   
 C. 10%                      D.  $12\frac{1}{2}\%$



69. If  $29 \times 23 = 667$ , then what is the value of  $0.29 \times 0.23$ ?
- A. 6.67                      B. 0.667  
C. 0.0667                  D. 0.00667
70. What is the decimal equivalent of  $\frac{1}{10} + \frac{11}{100} + \frac{111}{1000}$ ?
- A. 1.111                      B. 0.111  
C. 0.321                      D. 0.1111
71. What is the missing number in 7, 14, ..., 56, 112?
- A. 21                          B. 24  
C. 25                          D. 28
72. Which statement is true of the following for 13, 23 and 29?
- A. All are prime numbers  
B. All are composite numbers  
C. All are even numbers  
D. All are divisible by 3
73. If  $7.71 + 7.071 + 7.0071 + \dots$  is equal to 21.79581, then what is the missing number?
- A. 7.00711                  B. 7.00177  
C. 0.00771                  D. 0.070071
74. When 204340 is divided by 17, then quotient is equal to?
- A. 1202                          B. 10022  
C. 12200                      D. 12020
75. What is the sum of first-seven multiples of 7?
- A. 156                          B. 176  
C. 196                          D. 216

### SECTION-III : LANGUAGE

**Directions (Qs. 76-100) :** In this section five passages are given. Each passage has five questions. Read every passage carefully and give answer of the questions.

#### Passage-1

We shall go on to the end, we shall fight in France, we shall fight on the seas and oceans, we shall fight with the growing confidence and strength in the air, we shall defend our island whatever the cost may be, we shall fight on the beaches, we shall fight on the landing grounds, we shall fight in the fields and in the streets, we shall fight in the hills. We shall never surrender, and even if this island or a large part of it were subjugated and starving, then our empire beyond the seas would carry on the struggle, until the New World steps forth to the rescue and the liberation of the Old.

- On the basis of the passage which of the following statements may be said to be correct?
 

A. The speaker is encouraging his men for the conquest of France  
B. The speaker is an aggressive and maniacal war-monger  
C. The speaker is not satisfied with the conquest of the island  
D. The speaker is a patriot urging the defence of his motherland
- The speaker in the passage wants to go on fighting because:
 

A. He is a raving lunatic  
B. He is in a state of utter despair  
C. He expects help from other quarters  
D. He is the leader of a suicide squad
- Which of the following pair of the phrases helps best to bring out the intention of the speaker?
 

A. "Go on to the end", "shall never surrender"  
B. "Growing confidence", "subjugated and starving"  
C. "Subjugated and starving", "fighting on the landing ground"  
D. "Fighting in the streets", "subjugated and starving"
- The passage consists of repetitive patterns in syntax and vocabulary. The effect of this style is that it:
 

A. Reveals the speaker's defects in giving a speech  
B. Produces the impression of bad poetry  
C. Conveys the speaker's helpless situation  
D. Reinforces the speaker's basic intention



5. The tone of the speaker is:
- Pleading and urging
  - Inspiring and encouraging
  - Discouraging and gloomy
  - Menacing and bullying

### Passage-2

Pablo Picasso showed his truly exceptional talent from a very young age. His first word was lapiz (Spanish for pencil) and he learnt to draw before he could talk. He was the only son in the family and very good-looking, so he was thoroughly spoilt. He hated school and often refused to go unless his doting parents allowed him to take one of his father's pet pigeons with him.

Apart from pigeons, his great love was art and when in 1891 his father, who was an amateur artist, got a job as a drawing teacher at a college, Pablo went with him to the college. He often watched his father paint and sometimes was allowed to help. One evening his father was painting a picture of their pigeons when he had to leave the room. He returned to find that Pablo had completed the picture, and it was so amazingly beautiful and lifelike that he gave his son his own palette and brushes and never painted again. Pablo was just thirteen.

- As a boy Pablo Picasso was
  - Ordinary looking but talented.
  - Handsome and talented.
  - Handsome and studious.
  - Handsome and hardworking.
- He was spoilt mostly because he was
  - A smart boy.
  - Loved by one and all.
  - The only son in the family.
  - Always surrounded by notorious boys.
- Picasso went to school only when
  - His friends accompanied him.
  - His father went with him.
  - He was allowed to paint at school.
  - He was allowed to carry a pet with him.
- When his father painted in the college, Pablo
  - Occasionally helped him.
  - Rarely helped him.
  - Always helped him.
  - Invariably helped him.

5. Pablo's father gave up painting because he
- Did not like the job.
  - Retired from the college.
  - Was impressed by his son's talent.
  - Lost interest in painting.

### Passage-3

We stand poised precariously and challengingly on the razor's edge of destiny. We are now at the mercy of atom bombs and the like which would destroy us completely if we fail to control them wisely. And wisdom in this crisis means sensitiveness to the basic values of life; it means a vivid realization that we are literally living in one world where we must either swim together or sink together. We cannot afford to tamper with man's single minded loyalty to peace and international understanding. Anyone, who does it is a traitor not only to man's past and present, but also to his future, because he is mortgaging the destiny of unborn generations.

- From the tone and style of the passage it appears that the writer is
  - a prose writer with a fascination for images and metaphors.
  - a humanist with a clear foresight.
  - a traitor who wishes to mortgage the destiny of future generations.
  - unaware of the global power situation.
- The best way to escape complete annihilation in an atomic war is to
  - work for international understanding and harmony.
  - invent more powerful weapons.
  - turn to religion.
  - ban nuclear weapons.
- The phrase 'razor's edge of destiny' means a/an
  - enigma that cuts through the pattern of life like the edge of a razor.
  - critical situation that foreordains the future.
  - sharp line of division that marks the alternative courses of action in the future.
  - destiny with sharp edges.
- According to the writer, 'wisdom' on the razor's edge of destiny means
  - awareness that we stand poised precariously on the razor's edge of destiny.
  - determination to ban nuclear weapons.

- C. responsibility to the 'unborn generations'.
- D. awareness of the basic values of life.
- 5. The author is concerned about the threat of nuclear weapons because he feels that
  - A. a nuclear war will destroy human civilization.
  - B. all countries are interlinked and one cannot escape the consequences of what happens to another country.
  - C. the world is on the brink of disaster.
  - D. his country is threatened by a nuclear war.

#### Passage-4

Through the break between the trees, she looked into one of the lighted windows above the shop. She could see the cartons of biscuits neatly piled near the far wall. Against her conscious wishes Cissy's saliva glands started pumping the fluid into her mouth. She felt her heart beating strongly from the top of her throat into the back of her mouth. There is nobody, she thought. I can dash in and take a box and dash out again. I know it is a sin but the Lord will not punish us if we are so hungry.

- 1. The whole passage is a description of
  - A. Cissy's courage for stealing
  - B. Cissy's plans before stealing
  - C. Cissy's temptation before stealing
  - D. Cissy's greed for stealing
- 2. How do you know that Cissy felt guilty?
  - A. She knew what she was doing was morally wrong
  - B. She felt her heart pounding inside her chest
  - C. She was saying her prayers before she went to steal
  - D. She knew that she was about to do something selfish
- 3. Why did her heart beat strongly?
  - A. She thought nobody was watching her
  - B. She was thinking of stealing the biscuits
  - C. She was eager to taste the biscuits
  - D. She was ill and was running temperature
- 4. How was Cissy able to see the cartons of biscuits?
  - A. She had very good eyesight
  - B. She was able to smell the biscuits
  - C. She saw another child eating biscuits
  - D. She was aided by a light in the room

- 5. What was Cissy's reaction when she saw the biscuit cartons?
  - A. She wanted to eat all the biscuits
  - B. She felt like vomiting
  - C. Her mouth started watering
  - D. She thought of all the toffees she had eaten

#### Passage-5

Donny was a good bowler, and a good man. He was one of us. He was a man who loved the outdoors... and bowling...., and as a surfer he explored the beaches of Southern California, from La Joll to Leo Carrillo and... up to... Pismo. He died, like so many young men of his generation, he died before his time. In your wisdom, Lord, you took him, as you took so many bright flowering young men at Khe Sanh, at Langdok, at Hill 364. These young men gave their lives. And so would Donny. Donny, who loved bowling. And so, Theodore Donald Karabotsos, in accordance with what we think your dying wishes might well have been, we commit your final mortal remains to the bosom of the Pacific Ocean, which you loved so well. Good night, sweet prince.

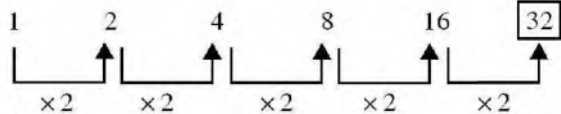
- 1. In this passage, the speaker's attitude towards Donny is primarily one of
  - A. Mournful eulogy
  - B. Unbiased detachment
  - C. Clear hostility
  - D. Elated nostalgia
- 2. The speaker's attitude towards bowling can best be described as
  - A. Indifference
  - B. Respect
  - C. Disregard
  - D. Contempt
- 3. In context, the tone of "In your wisdom, Lord, you took him, as you took so many bright, flowering young men at Khe Sanh, at Langdok, at Hill 364," is best described as
  - A. Impatient
  - B. Baffled
  - C. Resigned
  - D. Ambivalent
- 4. The speaker's tone in the last two sentences is best described as
  - A. Irritated
  - B. Confused
  - C. Curious
  - D. Solemn
- 5. In "..... as you took so many bright, flowering young men....." *bright* most, nearly mean
  - A. Light
  - B. Intelligent
  - C. Vivid
  - D. Dazzling

## ANSWERS

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

## EXPLANATORY ANSWERS

51.  $\therefore 5.28 \times 0.8 = 4.224$   
 $\therefore 52.8 \times 0.8 = 42.24.$
52.  $6\% \text{ of } 800 = \frac{6}{100} \times 800 = 48.$
53. Cost price of scooter  
 $= 47,000 + 3,000 = ₹ 50,000$   
 Selling price = ₹ 52,000  
 Profit =  $52000 - 50000 = ₹ 2000$   
 $\text{Profit \%} = \frac{2000}{50000} \times 100 = 4\%.$
54. Let, Principal = P  
 Amount = 2P  
 Simple interest =  $2P - P = P$   
 $\text{time} = \frac{\text{S.I.} \times 100}{P \times r} = \frac{P \times 100}{P \times 10}$   
 $= 10 \text{ years.}$
55. Prime factors of 32 =  $2 \times 2 \times 2 \times 2 \times 2.$

56. 8, 16 and 24 all numbers are divisible by 8 but not divisible by 12.  
 All numbers of other options are divisible by 12.  
 Hence, correct option is (B).
57.   
 Hence, next term will be 32.
58. A.  $2\frac{2}{5} = \frac{12}{5} = 2.4$   
 B.  $22.5\% = \frac{225}{10 \times 100} = \frac{225}{1000} = 0.225$   
 C.  $\frac{12}{5} = 2.4$   
 D.  $2\frac{4}{10} = \frac{24}{10} = 2.4$   
 Clearly, 22.5% is not equal to 2.4.

$$\begin{array}{r} 6.666 \\ 6.66 \\ + 6.06 \\ \hline 19.386 \end{array}$$

Hence, sum of 6.666, 6.66 and 6.06 = 19.386.

60. Area of the hall =  $l \times b = 24 \times 20 \text{ m}^2$

Area of each tile =  $0.4 \times 0.3 \text{ m}^2$

$$\begin{aligned} \text{No. of tiles} &= \frac{24 \times 20}{0.4 \times 0.3} \\ &= \frac{24 \times 20 \times 10 \times 10}{4 \times 3} = 4000. \end{aligned}$$

$$\begin{array}{r} 61. \quad 64 \overline{)120} (1 \\ \underline{64} \\ 56 \overline{)64} (1 \\ \underline{56} \\ 8 \overline{)56} (7 \\ \underline{56} \\ \times \\ 8 \overline{)144} (18 \\ \underline{8} \\ 64 \\ \underline{64} \\ \times \end{array}$$

Hence, H.C.F. of 64, 120 and 144 = 8.

62. According to the question,

$$\frac{[(A+5) \times 10] - 8}{2} = 151$$

$$\Rightarrow 10A + 50 - 8 = 302$$

$$\Rightarrow 10A + 42 = 302$$

$$\Rightarrow 10A = 302 - 42 = 260$$

$$\Rightarrow A = 26.$$

63.  $23208 \times 254 \times 0 \times 126 = 0$

Because any number multiplied by zero always becomes zero.

64. In ascending order of 30030, 30330, 30033 will be written as 30030, 30033 and 30330  
Hence, correct option is (D).

65. The greatest number of six digits = 999999  
The smallest number of six digits = 100000  
Required difference =  $999999 - 100000$   
 $= 899999.$

66. L.C.M. of 84, 140 and 70

$$\begin{array}{r|l} 2 & 84, 140, 70 \\ \hline 2 & 42, 70, 35 \\ \hline 5 & 21, 35, 35 \\ \hline 7 & 21, 7, 7 \\ \hline & 3, 1, 1 \end{array}$$

$$\text{L.C.M.} = 2 \times 2 \times 5 \times 7 \times 3 = 420.$$

67.  $100 - 16 = 84$

When S.P. ₹ 84 then C.P. = ₹ 100

When S.P. ₹ 42,000 then C.P.

$$= \frac{100}{84} \times 42000 = 50000$$

Hence, C.P. of the car = ₹ 50000.

$$\begin{aligned} 68. \quad \text{Rate} &= \frac{\text{S.I.} \times 100}{\text{P} \times \text{time}} \\ &= \frac{7000 \times 100}{28000 \times 4} = \frac{25}{4} = 6\frac{1}{4}\% \end{aligned}$$

69.  $\therefore 29 \times 23 = 667$

$$\therefore 0.29 \times 0.23 = 0.0667.$$

$$\begin{aligned} 70. \quad \frac{1}{10} + \frac{11}{100} + \frac{111}{1000} &= 0.1 + 0.11 + 0.111 \\ &= 0.321 \end{aligned}$$

$$\begin{array}{ccccccc} 7 & & 14 & & 28 & & 56 & & 112 \\ \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\ & \times 2 & & \times 2 & & \times 2 & & \times 2 & \end{array}$$

Hence, missing number is 28.

72. 13, 23 and 29 are all prime numbers.

$$\begin{aligned} 73. \quad 7.71 + 7.071 + 7.0071 + x &= 21.79581 \\ \Rightarrow 21.7881 + x &= 21.79581 \\ \Rightarrow x &= 21.79581 - 21.7881 \\ &= 0.00771. \end{aligned}$$

74.  $204340 \div 17 = 12020.$

$$\begin{aligned} 75. \quad 7 + 14 + 21 + 28 + 35 + 42 + 49 &= 7(1 + 2 + 3 + 4 + 5 + 6 + 7) \\ &= 7 \times \frac{7 \times 8}{2} = 196. \end{aligned}$$