JEE Main 2020 Paper 2B (B.Planning) Jan 6 Single sitting Question Paper

Conducted by the National Testing Agency (NTA)

Time Allowed: 3 Hours **B.Planning** **Maximum Marks: 400**

General Instructions

(i) This is **Paper 2B (B.Planning)** of **JEE (Main) 2020**, conducted by the National Testing Agency on **6 Jan 2020**.

(ii) The paper contains **100 questions**; attempt **100** as specified in the section table. The maximum score is **400 marks**.

(iii) Multiple choice questions have four options. Select one answer. Each correct answer carries **4 marks**; an incorrect answer carries **−1 mark**.

(iv) Numerical value questions carry **4 marks** for a correct answer and **0 marks** for an incorrect answer. Unanswered questions carry **0 marks**.

(v) All Planning and Aptitude Test questions are compulsory.

(vi) All questions are compulsory.

Section	Questions	To attempt	Marks
Mathematics	25	25	100
Aptitude Test	50	50	200
Planning	25	25	100

Mathematics

1. 4 marks

If $A=\{1, 2, 3, 4\}$, then the number of functions on the set A, which are not one - one, is :

1. 232
2. 240
3. 248
4. 256

2. 4 marks

The sum of the values of x satisfying the equation, $\sqrt{x}(\sqrt{x}-4)-3|\sqrt{x}-2|+6=0$ $(x \geq 0)$, is :

1. 26
2. 25
3. 10
4. 8

3. 4 marks

If m be the least value of $|z-3+i4|^2+|z-5-i2|^2$, $z \in \mathbb{C}$ attained at $z=z_0$, then the ordered pair $(|z_0|, m)$ is equal to :

1. $(\sqrt{13}, 10)$
2. $(\sqrt{17}, 20)$
3. $(\sqrt{17}, 10)$
4. $(\sqrt{13}, 20)$

4. 4 marks

If for some $c < 0$, the quadratic equation, $2cx^2 - 2(2c-1)x + 3c^2 = 0$ has two distinct real roots, $\frac{1}{a}$ and $\frac{1}{b}$, then the value of the determinant, $\begin{vmatrix} 1+a & 1 & 1 \\ 1 & 1+b & 1 \\ 1 & 1 & 1+c \end{vmatrix}$ is :

1. 2
2. 0
3. $\frac{4}{3}$
4. 1

5. 4 marks

Let $A = \begin{bmatrix} x & 2y \\ -1 & y \end{bmatrix}; x, y \in \mathbf{R}$.

If $AA^T = \begin{bmatrix} 1 & 0 \\ 0 & \alpha \end{bmatrix} (\alpha \in \mathbf{R})$, then $\alpha + y^2$ is equal to :

1. 1
2. $\sqrt{2} - 1$
3. 2
4. $\sqrt{2}$

6. 4 marks

Let S_n denote the sum of the first n terms of an A.P., $a_1, a_2, a_3, \ldots, a_n$. If $a_5 + a_9 = 1$ and $S_9 = 6$, then which one of the following is not true ?

1. $S_{13} = \frac{13}{2}$
2. $a_{13} = 0$
3. $a_6 + a_8 = 1$
4. $S_6 = \frac{19}{2}$

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7. 4 marks

If $\sum_{r=1}^{9}\left(\frac{r+3}{2^r}\right){}^9C_r = \alpha\left(\frac{3}{2}\right)^9 + \beta$, then

$\alpha+\beta$ is equal to :

1. 2
2. 9
3. 3
4. 6

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8. 4 marks

Let a function, $f:(-1, 3) \to \mathbf{R}$ be defined as $f(x) = \min\{x[x], |x[x]-2|+2\}$, where $[x]$ denotes the greatest integer $\le x$. Then f is :

1. neither continuous nor differentiable at exactly 3 points.
2. not continuous at two points and not differentiable at 3 points.
3. neither continuous nor differentiable at exactly two points.
4. not continuous at only one point and not differentiable at three points.

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9. 4 marks

$\lim_{x \to 1}\left\{\log_e\left(e^{x(x-1)} - e^{x(1-x)}\right) - \log_e(4x(x-1))\right\}$ is equal to :

1. 1
2. $-\log_e 2$
3. $-2\log_e 2$
4. $1-\log_e 2$

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10. 4 marks

The function $f(x)=e^{x+1}\,(4x^2-16x+11)$ is :

1. increasing in $\left(-\infty, -\frac{1}{2}\right) \cup \left(\frac{5}{2}, \infty\right)$
2. increasing in $(-\infty, -2) \cup (2, \infty)$
3. decreasing in $\left(-\infty, -\frac{5}{2}\right) \cup \left(\frac{1}{2}, \infty\right)$
4. decreasing in $\left(-\infty, \frac{1}{2}\right) \cup \left(\frac{5}{2}, \infty\right)$

11. 4 marks

The area (in sq. units) of the region $\left\{(x, y): \frac{1}{2} \le y \le \sin x,\ 0 \le x \le \pi\right\}$ is :

1. $\sqrt{3}-\frac{\pi}{3}$
2. $3-\frac{\pi}{3}$
3. $3-\frac{2\pi}{3}$
4. $\sqrt{3}-\frac{\pi}{6}$

12. 4 marks

If $x=x(y)$ is the solution of the differential equation, $y\,dx-(x+2y^2)\,dy=0$, with $x(-\pi)=\pi^2$, then x is equal to :

1. $2y^2-\pi^2$
2. $-2y^2+3\pi y$
3. $-y^2-2\pi y$
4. $2y^2+\pi y$

13. 4 marks

A ray of light is projected from the origin at angle of 60° with the positive direction of x-axis towards the line, $y=2$, which gets reflected from the point $(\alpha, 2)$. Then the distance of the reflected ray of light from the point $(2, 2)$ is :

1. $\sqrt{3}-1$
2. $2\left(1-\frac{1}{\sqrt{3}}\right)$
3. $3-\sqrt{3}$
4. $1-\frac{1}{\sqrt{3}}$

14. 4 marks

Let the ellipse, $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$, $a > b$, pass through the point $(2, 3)$ and have eccentricity equal to $\frac{1}{2}$. Then equation of the normal to this ellipse at $(2, 3)$ is :

1. $2y-x=4$
2. $2x-y=1$
3. $3x-y=3$
4. $3x-2y=0$

15. 4 marks

If a variable plane in 3-dimensional space moves in such a way that the sum of the reciprocals of its intercepts on the x and y-axes exceeds the reciprocal of its intercept on the z-axis by 2, then all such planes will pass through the point :

1. $\left(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right)$
2. $\left(\frac{1}{2}, \frac{1}{2}, -\frac{1}{2}\right)$
3. $\left(\frac{1}{2}, -\frac{1}{2}, \frac{1}{2}\right)$
4. $\left(\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}\right)$

16. 4 marks

If the volume of a parallelopiped whose coterminous edges are $\vec{a} = \hat{i} + \hat{j} + 2\hat{k}$, $\vec{b} = 2\hat{i} + \lambda\hat{j} + \hat{k}$ and $\vec{c} = 2\hat{i} + 2\hat{j} + \lambda\hat{k}$ is 35 cu.m, then a value of $\vec{a}\cdot\vec{b} + \vec{b}\cdot\vec{c} - \vec{c}\cdot\vec{a}$ is :

1. 2
2. -14
3. -10
4. 22

17. 4 marks

If $10\sin^4\alpha + 15\cos^4\alpha = 6$, $\alpha \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$, then $27\,\text{cosec}^6\alpha + 8\sec^6\alpha$ is equal to :

1. 280
2. 270
3. 250
4. 240

18. 4 marks

A bag contains 6 red balls and 10 green balls. 3 balls are drawn from it one by one randomly without replacement. If the 3rd drawn ball is red, then the probability that the first two drawn balls are green is :

1. 3/7
2. 3/8
3. 9/56
4. 9/49

19. 4 marks

Let the data 4, 10, x, y, 27 be in the increasing order. If the median of the data is 18 and its mean deviation about mean is 7.6, then the mean of this data is :

1. 15.5
2. 16
3. 16.5
4. 17

20. 4 marks

Which of the following is not equivalent to $\sim p \wedge q$?

1. $\sim(p \vee \sim q)$
2. $\sim p \rightarrow \sim q$
3. $\sim (q \rightarrow p)$
4. $\sim p \wedge (\sim p \rightarrow q)$

21. Numerical value · 4 marks

If the total number of ways in which 8-digit numbers can be formed by using all the digits 0, 1, 2, 3, 4, 5, 7, 9 such that no two even digits appear together is (5!)k, then k is equal to _____.

22. Numerical value · 4 marks

Let $f(x)=\begin{cases}|x-3|, & \text{if } x<-1\\ 3x+4, & \text{if } x\geq -1\end{cases}$,

$g(x)=x^2-bx-2$ $(x \in \mathbf{R})$ and b is a real constant. If gof is continuous at $x=-1$, then b is equal to _____.

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23. Numerical value · 4 marks

If $\int e^{2x}(\cos x+7\sin x)\,dx = e^{2x}g(x)+c$, where c is a constant of integration, then $g(0)+g\left(\frac{\pi}{2}\right)$ is equal to _____.

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24. Numerical value · 4 marks

If the line joining the points $(-1,2,5)$ and $(3,\ 4,\ -10)$ intersects the xy-plane at the point (x,y,z), then $\frac{y}{x}$ is equal to _____.

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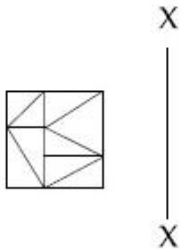
25. Numerical value · 4 marks

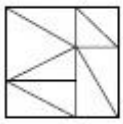
Let $a, b \in \mathbf{R}$ and $a>0$. If the tangent at the point $(2,2)$ to the circle $x^2+y^2=8$ touches the parabola $y^2=4a(x-b)$, then $b-a$ is equal to _____.

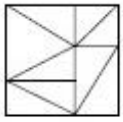
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26. 4 marks

Which one of the answer figures is the correct mirror image of the problem figure with respect to X – X ?



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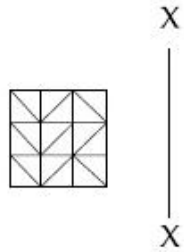
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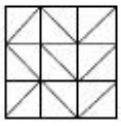
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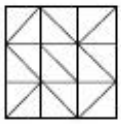
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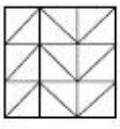
27. 4 marks

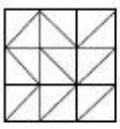
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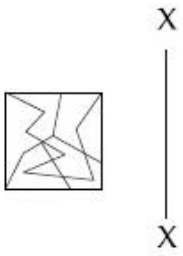
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3. 

4. 

28. 4 marks

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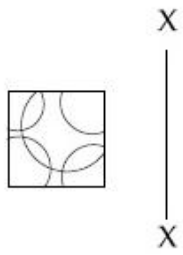
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3. 

4. 

29. 4 marks

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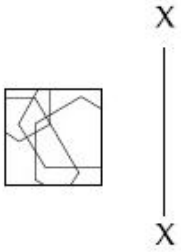
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3. 

4. 

30. 4 marks

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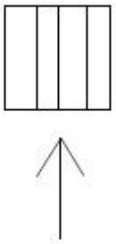
2. 

3. 

4. 

31. 4 marks

The problem figure shows the top view of an object. Identify the correct elevation from amongst the answer figures looking in the direction of the arrow.



1. 

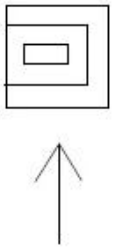
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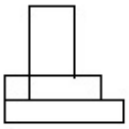
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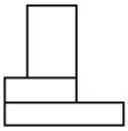
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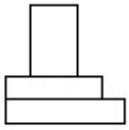
32. 4 marks

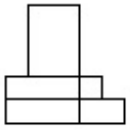
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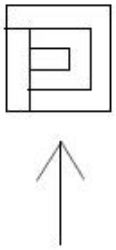
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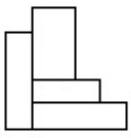
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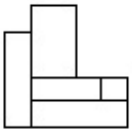
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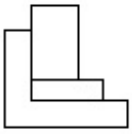
33. 4 marks

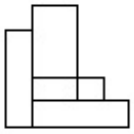
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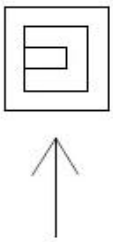
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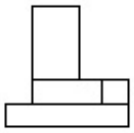
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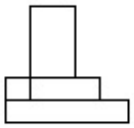
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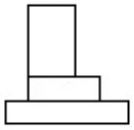
34. 4 marks

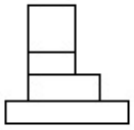
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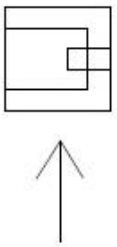
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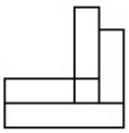
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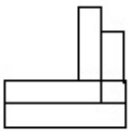
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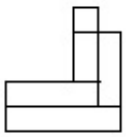
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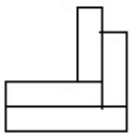
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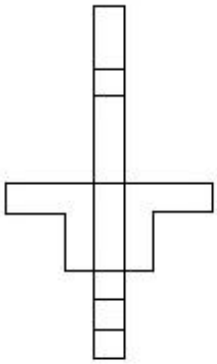
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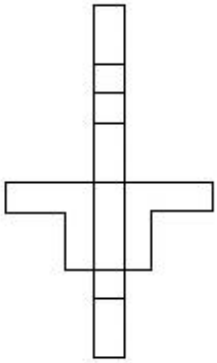
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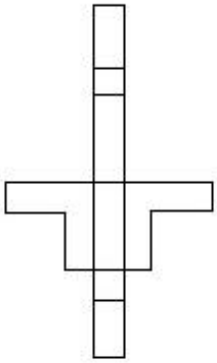
36. 4 marks

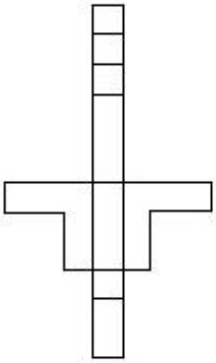
The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



1. 

2. 

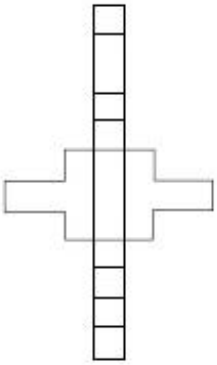
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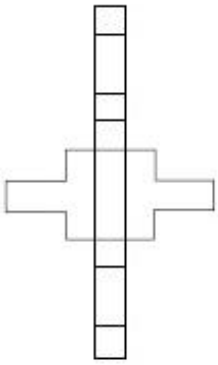
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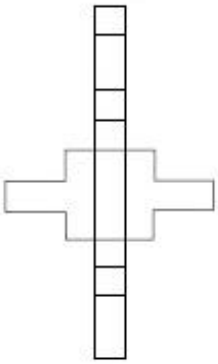
37. 4 marks

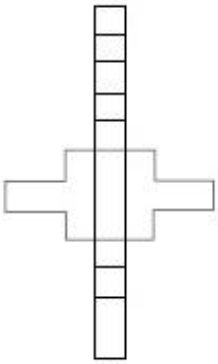
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1. 

2. 

3. 

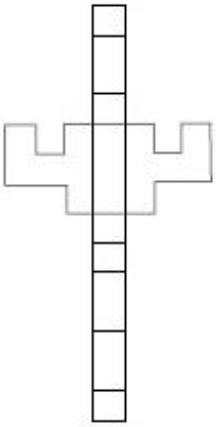
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38. 4 marks

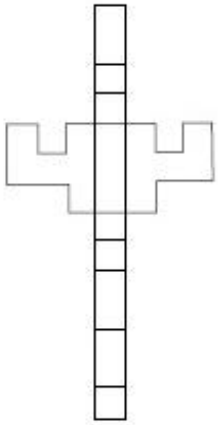
The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



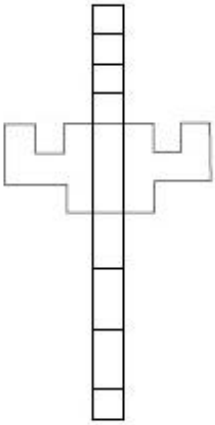
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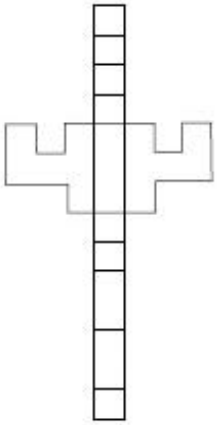
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3.



4.

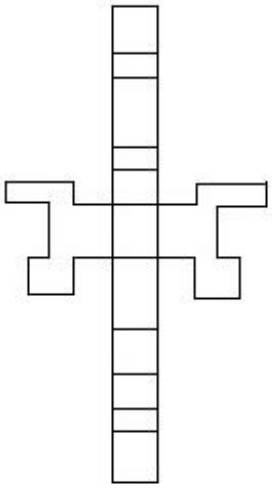


39. 4 marks

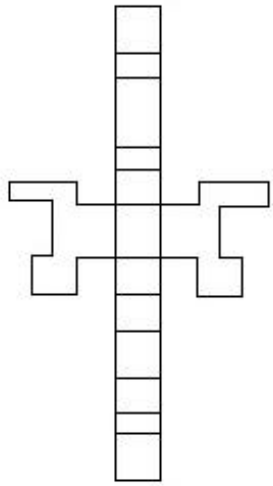
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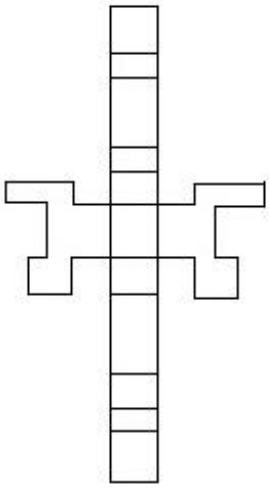
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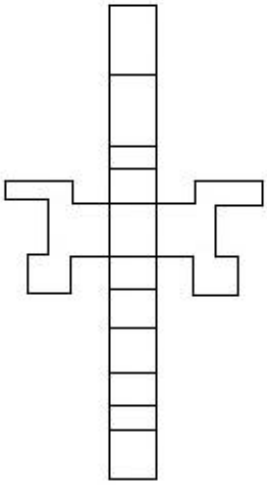
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3.



4.

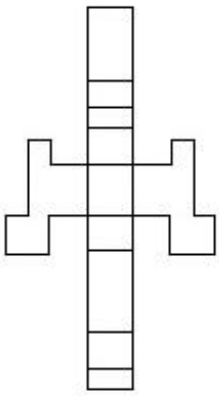


40. 4 marks

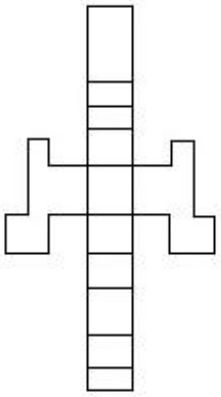
The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



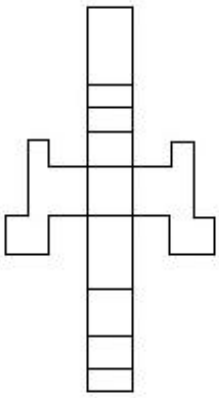
1.



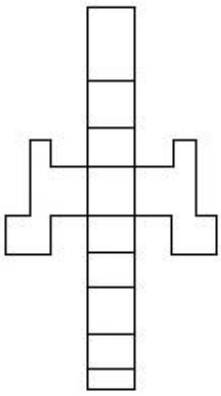
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3.

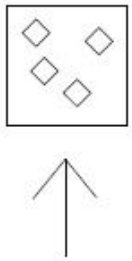


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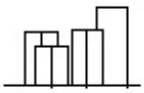


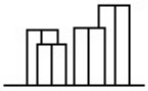
41. 4 marks

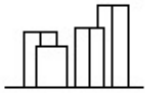
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.



1. 

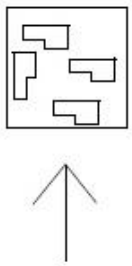
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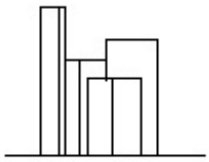
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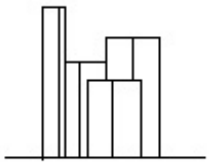
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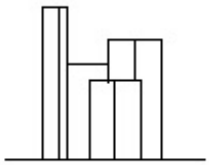
42. 4 marks

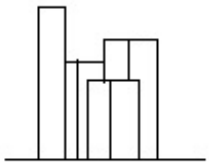
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.



1. 

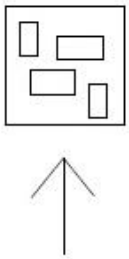
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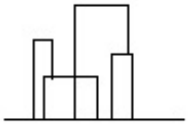
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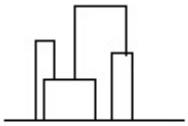
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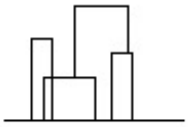
43. 4 marks

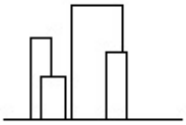
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1. 

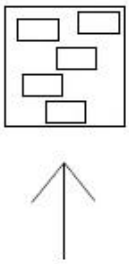
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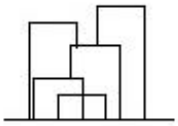
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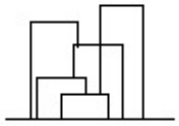
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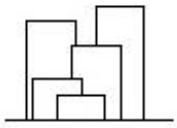
44. 4 marks

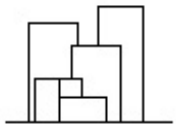
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1. 

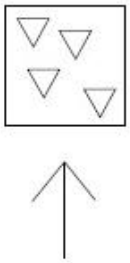
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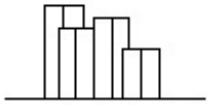
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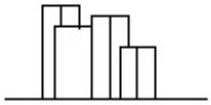
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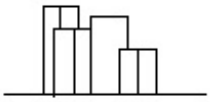
45. 4 marks

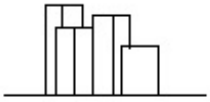
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1. 

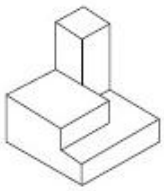
2. 

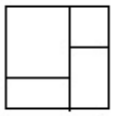
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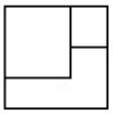
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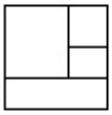
46. 4 marks

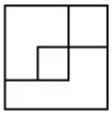
The 3 – D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



1. 

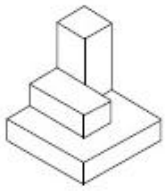
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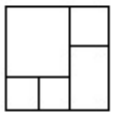
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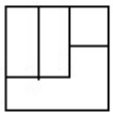
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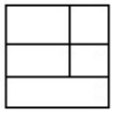
47. 4 marks

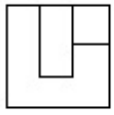
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1. 

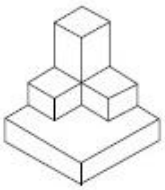
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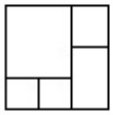
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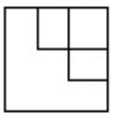
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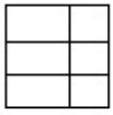
48. 4 marks

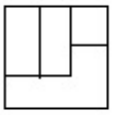
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1. 

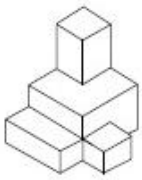
2. 

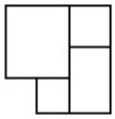
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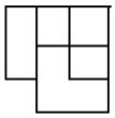
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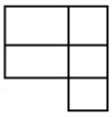
49. 4 marks

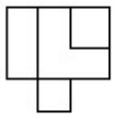
The 3 – D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



1. 

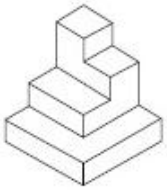
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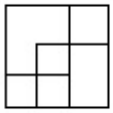
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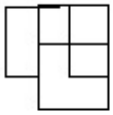
4. 

50. 4 marks

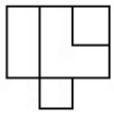
The 3 – D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



1. 

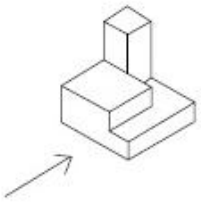
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3. 

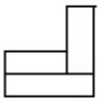
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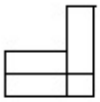
51. 4 marks

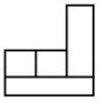
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



1. 

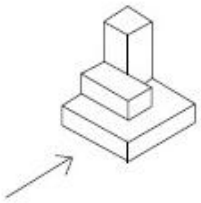
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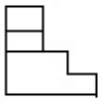
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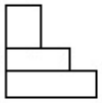
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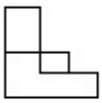
52. 4 marks

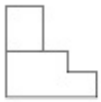
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1. 

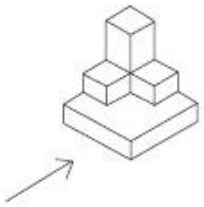
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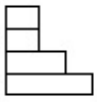
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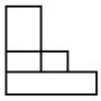
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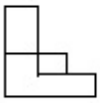
53. 4 marks

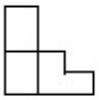
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1. 

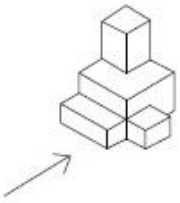
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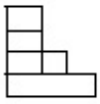
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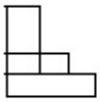
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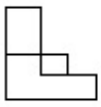
54. 4 marks

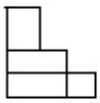
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1. 

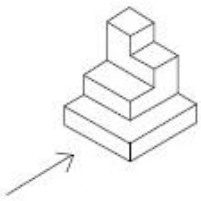
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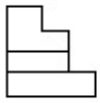
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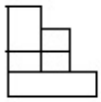
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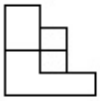
55. 4 marks

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1. 

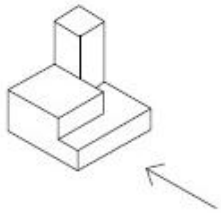
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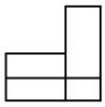
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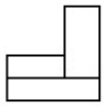
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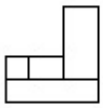
56. 4 marks

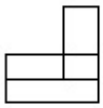
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1. 

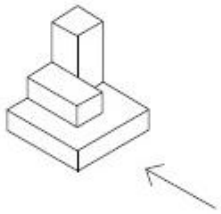
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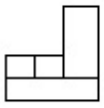
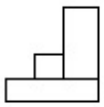
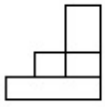
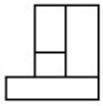
3. 

4. 

57. 4 marks

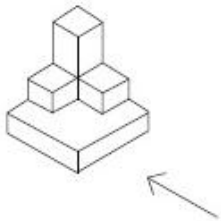
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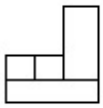
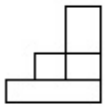
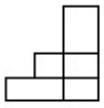
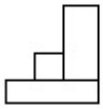


1. 
2. 
3. 
4. 

58. 4 marks

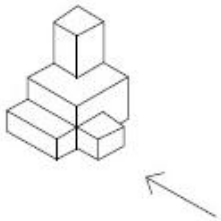
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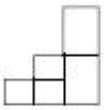


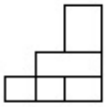
1. 
2. 
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4. 

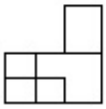
59. 4 marks

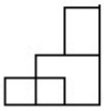
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1. 

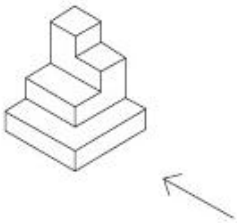
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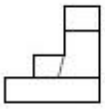
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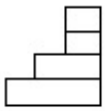
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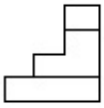
60. 4 marks

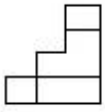
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



1. 

2. 

3. 

4. 

61. 4 marks

Buckingham Palace is the Residence of which one of the following ?

1. Queen of England
2. King of Netherlands
3. King of Prussia
4. King of Nepal

62. 4 marks

In the Northern Hemisphere the winter sun rises from which one of the following directions ?

1. North East
2. North West
3. South East
4. South West

63. 4 marks

Which one of the following is a purpose for installing false ceilings ?

1. Supporting the walls
2. Making the building water proof
3. Making the space acoustically effective
4. Making the building fire proof

64. 4 marks

What amongst the following is the thickness of a two brick wall ?

1. 18″
2. 20″
3. 16″
4. 22″

65. 4 marks

Where from among the following is the famous St. Peters located ?

1. Denmark
2. Norway
3. Rome
4. Venice

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66. 4 marks

In which State in India are the large Tea Gardens located ?

1. Punjab
2. Uttar Pradesh
3. Kerala
4. Odisha

67. 4 marks

Where from the following is the National Gallery of Modern Art located ?

1. Bangalore
2. Lucknow
3. New Delhi
4. Mysore

68. 4 marks

Which one of the following is a secondary color ?

1. Green
2. Red
3. Yellow
4. Blue

69. 4 marks

Which one of the following is considered to be a calming color ?

1. Red
2. Orange
3. Green
4. Blue

70. 4 marks

What is the texture of sand-paper ?

1. Coarse
2. Glossy
3. Smooth
4. Shiny

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71. 4 marks

What is the purpose of a chimney in a building ?

1. To give strength to a building
2. To hold the building up
3. To take out the smoke from a fire place
4. To make the building water proof

72. 4 marks

What among the following would be the ideal material for flooring of a steel factory ?

1. Wood
2. Tiles
3. Granite
4. Steel

73. 4 marks

Who was the architect of the LIC Building in Connaught Place, New Delhi ?

1. Raj Rewal
2. Charles Correa
3. Louis Kahn
4. Zaha Hadid

74. 4 marks

Who was the architect of the glass pyramid at the Louvre Paris ?

1. Frank Lloyd Wright
2. Walter Gropius
3. I.M. Pei
4. Charles Correa

75. 4 marks

Who amongst the following is an architect?

1. Geoffery Bawa
2. Sharmila Tagore
3. Louis Armstrong
4. Donald Trump

Planning

76. 4 marks

A system of economic enterprise based on market exchange is termed as :

1. Socialism
2. Communism
3. Capitalism
4. Feudalism

77. 4 marks

Which is the First Airport in India ?

1. Safdarjung Airport
2. Juhu Aerodrome
3. Kolkata Airport
4. Madras Airport

78. 4 marks

Which of these does **not** hold true for the following observation ?

Evidences of town planning principles in Indus Valley Civilisation is demonstrated through the discovery of the following :

1. Houses were connected directly to a drainage system
2. Public transport wagons moved in the cities
3. Great Bath that served the purpose of community bathing
4. Some of the towns were laid out in a grid pattern

79. 4 marks

Which one of the following is **not** a fundamental right as per Constitution of India ?

1. Right to Equality
2. Right to Education
3. Right to Freedom of Speech
4. Right to Property

80. 4 marks

Which of the following has the maximum slope ?

1. 1 : 20
2. 1 : 30
3. 1 : 15
4. 1 : 10

81. 4 marks

Which of the following Ministers has never held the portfolio of Urban Development ?

1. Hardeep Singh Puri
2. Venkaiah Naidu
3. Jaipal Reddy
4. Jairam Ramesh

82. 4 marks

What is the full form of GPS ?

1. Green Peace Society
2. Global Positioning System
3. Global Peace and Security
4. Global Position on Security

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83. 4 marks

When was the first United Nations Conference on 'Human Settlements Habitat I' held ?

1. 1981
2. 1976
3. 1970
4. 1971

84. 4 marks

The headquarters of International Labour Organisation (ILO) is located in which city ?

1. New York
2. Vienna
3. Washington DC
4. Geneva

85. 4 marks

Topographical map of an area is used to understand :

1. Landform
2. Population Density
3. Economic Activity
4. Climate

86. 4 marks

With what amongst the given option is 'The White Revolution' in India associated ?

1. Rise in rice production
2. Cooperatives of milk producers
3. Cooperatives of paper mill workers
4. Rise in use of white marbles in buildings

87. 4 marks

Sustainable Development takes care of the present and :

1. Community
2. Past
3. Population
4. Future

88. 4 marks

The Eastern coast of India is also known as :

1. Bay of Bengal
2. Coromondal Coast
3. Konkan Coast
4. Bengal Coast

89. 4 marks

Secondary sector economic activity is related to :

1. Trade and commerce
2. Agriculture
3. Industrial
4. Tourism

90. 4 marks

Which was the most polluted city in India in 2018 as per Central Pollution Control Board ?

1. Lucknow
2. Ahmedabad
3. Gurugram
4. Patna

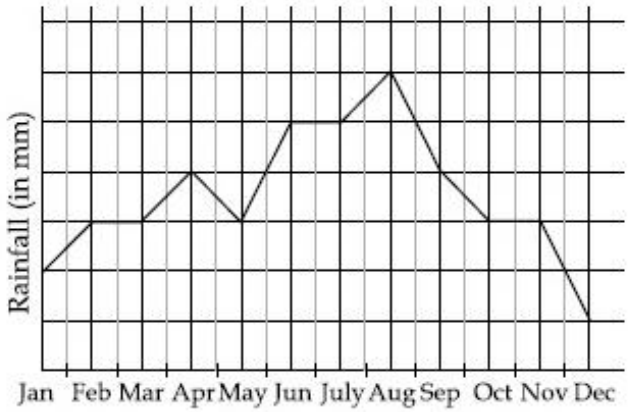
91. 4 marks

Find the correct match :

(P)	Aligarh	(I)	Silk Sarees
(Q)	Firozabad	(II)	Brass product
(R)	Kanjeevaram	(III)	Bangles
(S)	Moradabad	(IV)	Locks

1. (P)-(I), (Q)-(III), (R)-(II), (S)-(IV)
2. (P)-(IV), (Q)-(III), (R)-(I), (S)-(II)
3. (P)-(II), (Q)-(IV), (R)-(I), (S)-(III)
4. (P)-(III), (Q)-(I), (R)-(IV), (S)-(II)

92. 4 marks



The above graph depicts the average monthly rainfall for a particular year in the country XYZ. Select the **incorrect** option :

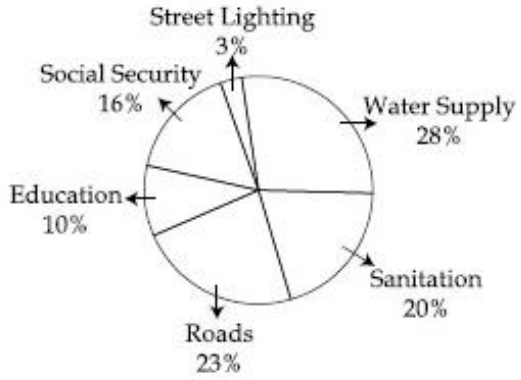
1. The driest months in the country are December and January.

2. February-March have the same average rainfall as October-November.

3. The country experiences the same average monthly rainfall in the months of May - June.

4. The wettest spell experienced by the country is in the month of August.

93. 4 marks

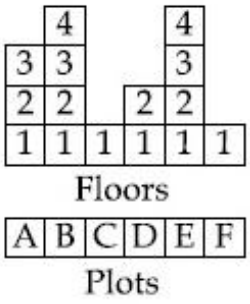


The above graph shows a municipality's expenditure on different services for the financial year 2018-19. If the municipality spent a total of Rs. 50 crore during this period, the expenditure on 'Education' was :

1. Rs. 3 crores less than that spent on 'social security'.
2. Rs. 7 crores more than that spent on 'street lighting'
3. Rs. 1 crore
4. Rs. 0.5 crore

94. 4 marks

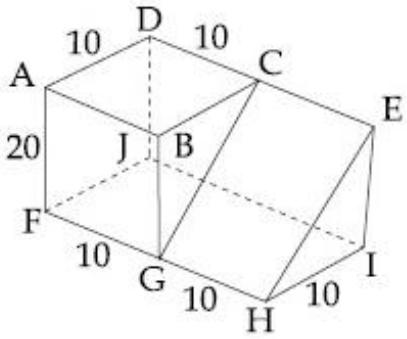
The figure shows floors as 1, 2, 3, 4 on each plot A, B, C, D, E, F. Plot A, D and E are commercial on all floors. B, C and F are residential on all floors. Find the percentage of total floors that are commercial and residential respectively :



1. 60% and 40%
2. 40% and 60%
3. 50% and 50%
4. 10% and 90%

95. 4 marks

Calculate the surface area of the solid shown in the figure excluding the bottom surface :



1. 1000.36
2. 1223.60
3. 1227.40
4. 1323.60

96. 4 marks

Following table gives the number of households and their corresponding monthly incomes. What will be the average monthly income of the household ?

Sl. No.	No. of Households	Monthly Household income (Rs)
1	300	20000
2	200	50000
3	150	100000
4	50	500000

1. 56000
2. 67000
3. 70000
4. 80000

97. 4 marks

Read the given passage and answer the questions.

'Jatra' is a musical folk theatre art form, popular in Bengali speaking areas of the Indian sub-continent including Bangladesh, West Bengal, Orissa, Assam and Bihar. The word 'jatra' means journey. While the original themes of 'jatra' were largely religious, by the end of the 19^{th} century, it began to include moral and later, even secular themes. The survival of this folk art form has been credited to its adaptability to changing social contexts.

Which of the following is indicated in the given paragraph ?

1. 'Jatra' refers to the journey of all folk-theatre forms in Bengal

2. 'Jatra' was performed originally in religious buildings only

3. 'Jatra' is popular in parts of India and Bangladesh

4. 'Jatra' came into existence in the 19^{th} century

98. 4 marks

Read the given passage and answer the questions.

'Jatra' is a musical folk theatre art form, popular in Bengali speaking areas of the Indian sub-continent including Bangladesh, West Bengal, Orissa, Assam and Bihar. The word 'jatra' means journey. While the original themes of 'jatra' were largely religious, by the end of the 19^{th} century, it began to include moral and later, even secular themes. The survival of this folk art form has been credited to its adaptability to changing social contexts.

The passage attributes the continued popularity of 'jatra' to.

1. the different social castes in Bengal
2. its flexibility in evolving its contents
3. its moral preachings
4. its beautiful folk music

99. 4 marks

Statement I :

Exposure to computer based learning is common in most schools today.

Statement II :

Most jobs require at least basic computer literacy.

Pick the correct option :

1. Statement I is the cause and statement II is its effect
2. Statement II is the cause and statement I is its effect
3. Statements I and II are independent effects
4. Statements I and II are causes of some common effect

100. 4 marks

In a survey of tourists in a city, 120 tourists were women of which 35% stayed in the city for more than one day. Which of the following is the correct conclusion for this data ?

1. The majority of all tourists stay for less than a day.
2. Average stay of women tourists is approximately one day.
3. Approximately 35% of all tourists stay for more than one day.
4. Approximately 35% of women tourists stay for more than one day.