

16	For the following distribution : <table><tr><td>Class</td><td>0 - 5</td><td>5 - 10</td><td>10 - 15</td><td>15 - 20</td><td>20 - 25</td></tr><tr><td>Frequency</td><td>10</td><td>15</td><td>12</td><td>20</td><td>9</td></tr></table> the upper limit of the modal class is (a) 10 (b) 15 (c) 20 (d) 25	Class	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	Frequency	10	15	12	20	9	1
Class	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25									
Frequency	10	15	12	20	9									
17	If the mean of the following distribution is 2.6, then the value of y is <table><tr><td>Variable (x)</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>Frequency</td><td>4</td><td>5</td><td>y</td><td>1</td><td>2</td></tr></table> (a) 3 (b) 8 (c) 13 (d) 24	Variable (x)	1	2	3	4	5	Frequency	4	5	y	1	2	1
Variable (x)	1	2	3	4	5									
Frequency	4	5	y	1	2									
18	A card is selected at random from a well shuffled deck of 52 cards. The probability of its being a red face card is (a) $\frac{3}{26}$ (b) $\frac{3}{13}$ (c) $\frac{2}{13}$ (d) $\frac{1}{2}$	1												
Direction for questions 19 & 20: In question numbers 19 and 20, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option.														
19	Assertion: If HCF of 510 and 92 is 2, then the LCM of 510 & 92 is 32460 Reason: as $HCF(a,b) \times LCM(a,b) = a \times b$ (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A). (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A). (c) Assertion (A) is true but Reason (R) is false. (d) Assertion (A) is false but Reason (R) is true.	1												
20	Assertion (A): The ratio in which the line segment joining (2, -3) and (5, 6) internally divided by x axis is 1:2. Reason (R): as formula for the internal division is $\left(\frac{mx_2 + nx_1}{m + n}, \frac{my_2 + ny_1}{m + n}\right)$ (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A). (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A). (c) Assertion (A) is true but Reason (R) is false. (d) Assertion (A) is false but Reason (R) is true.	1												
Section B														
Section B consists of 5 questions of 2 marks each.														

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Puja Mehta



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