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Section A 1 mark each

- Q.1 For what value of  $x$ , the mode of the following data is : 9  
 4 5 6 9 5 4 9 5 6  $x$  9  
 (a) 5 (b) 6 (c) 8 (d) 4
- Q.2 Construction of a cumulative frequency table is useful in determining the  
 (a) mean (b) median (c) mode (d) all the three
- Q.3 The numbers 5, 7, 10, 12,  $2x - 8$ ,  $2x + 10$ , 35, 41, 42, 50 are arranged in ascending order. If their median is 25, then  $x =$   
 (a) 10 (b) 11 (c) 12 (d) 9
- Q.4 Which is true? For the distribution, if mean is 20, then  $p =$

$x$	15	17	19	$20 + p$	23
$f$	2	3	4	$5p$	6

- (a) 1 (b) 2 (c) 1.5 (d) 2.5

Section B 2 marks each

- Q.5 Compute the missing frequencies  $a$  and  $b$  in the following data, given the mean is  $166\frac{9}{26}$  and the sum of the observations is 52.

Classes	140-150	150-160	160-170	170-180	180-190	190-200	Total
Frequency	5	$a$	20	$b$	6	2	52

Section C 3 marks each

- Q.6 Find the mode of the following frequency :

Marks	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45
No. of students	7	10	16	32	24	18	10	5	1

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Q.7 The annual rainfall record of a city for 66 days is given in the following table. Find Mean

Rainfall(in cm)	0-10	10-20	20-30	30-40	40-50	50-60
Number of days	22	10	8	15	5	6

Section D 4 marks each

Q.8 The following table shows the monthly income of 400 workers in a factory. Draw less than and more than ogive. From the graph, estimate median.

Monthly income (in Rs.)	No. of employees
700-800	9
800-900	21
900-1000	46
1000-1100	52
1100-1200	74
1200-1300	88
1300-1400	61
1400-1500	30
1500-1600	12
1600-1700	7

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