

RK VISION ACADEMY

NEET | IIT – JEE | FOUNDATION

CBSE PRACTICE PAPER(2024)

(Mathematics)

	Grade : marks Chapter: minutes		STICS SE	Т 1		Marks: 40 Time: 90				
	CTION A	rises of	Multiple	-choice q	uestions	(MCQ)	of 1 mark each.)			
•	The average weigh weight was wrongl	O	_				was discovered later that one t average?			
	(A) 75.76	(B)	77.56		(C) 79.4	-8	(B) 80.30			
2.	For arranged data	, the medi	an is the							
	(A) Most common observation	(B)	Middlemos	t observation	observar	st common	(D) Average of the two most common observations			
	The mode of the fo	llowing d	ata is:							
	$ \begin{array}{c ccccc} x_i & 10 & 14 & 18 \\ f_i & 10 & 15 & 7 \end{array} $	-	25 9							
	(A) 16	(B)	14		(C) 12		(D) 10			
١.	Find the mode of	the follo	wing data							
	$Class\ interval$	0 – 10	10 - 20	20 - 30	30 - 40	40 - 50				
	Frequency	7	13	14	5	11				
	Between 20 and 2	2.5 Bet	ween 27.5	and 30	Equal to	o 25	Between 22.5 and 27.5, but not equal to 25			
j.	There are lottery to common in lottery					. I want to f	ind the number which is most			
	(A) Mode	(B)	Mean		(C) Med	lian	(D) None of the above			
·).	Which of the follow	ving is no	t a measure	e of central	tendency?					
	(A) Mode	(B)	(B) Range			lian	(D) Mean			

		(b) 6		(c) 7			(d) 10
If 35 is remoincrease by?		he data, 30, 3	37, 38, 39,	40, then l	does the median		
(a) 1		(b) 0.5		(c) 2			(d) 1.5
For 'more th	an ogive', tl	e x-axis repre	sents				
(A) frequency		(B) lower limits	s of class	of class (C) mid-values of class-			(D) upper limits of class-
		ntervals		intervals	;		intervals
Find the mode of the following data.							
Class inte	rval 0 –	10 10 - 20	20 - 30	30 - 40	40 - 50	7	
Frequence	cy 7	13	14	5	11	1	
Between 20 and 22.5 Between 27.5 and 30 Equal to 25 Between 22.5 and 27.5 but not equal to 25							
: a aaa 4: a a		of ware abo		ΓΙΟΝ B		(VSA) a	f 2 mayles asah)
	-	·	rt answe	r type-qu		` ,	f 2 marks each.)
	-	of very sho e frequency di 17.5-22.5	rt answe	r type-qu of the follo	wing distr	` ,	f 2 marks each.)
Construct the Class Frequency	2 cumulativ 12.5-17.5	17.5-22.5 22	rt answe	r type-qu of the follo	wing distr	ribution : 2.5-37.5	f 2 marks each.)
Construct the Class	2 cumulativ 12.5-17.5	17.5-22.5 22	rt answer	r type-qu of the follo 5 27.5-2	wing distr 32.5 32	ribution : 2.5-37.5	f 2 marks each.)
Class Frequency	2 cumulativ 12.5-17.5 2 c 12,15,14,1	e frequency d 17.5-22.5 22 3,12,16	rt answer	r type-qu of the follo 5 27.5-2	wing distr 32.5 32	ribution : 2.5-37.5	f 2 marks each.)
Construct the Class Frequency Find Mean if	2 cumulativ 12.5-17.5 2 c 12,15,14,1	e frequency d 17.5-22.5 22 3,12,16	rt answer	r type-qu of the follo 5 27.5-2	wing distr 32.5 32	ribution : 2.5-37.5	f 2 marks each.)

(This section comprises of short answer type questions (SA) of 3 marks each)

The median of the following data is 16. Find the missing frequencies a and b, if the total of the frequencies is 70.

Class	0-	5-	10-	15-	20-	25-	30-	35-
Frequency	12	a	12	15	b	6	6	4

- Find the sum of first 51 terms of an AP -Those second and third terms are 14 and 18, respectively.
- Find the unknown entries m, n, o, p, q and r in the following distribution of heights of students in a class. The total number of students is 50. (5)

Height (in	150 – 155	155 – 160	160 – 165	165 – 170	170 – 175	175 – 180
Frequency	12	n	10	P	q	2
Cumulative	m	25	0	43	48	r

SECTION D

(This section comprises of long answer-type questions (LA) of 5 marks each) 17 Find the unknown entries a, b, c, d, e and f in the following distribution of heights of students in a class

Height (in cm)	Frequency	Cumulative frequency
150-155	12	A
155-160	b	25
160-165	10	С
165-170	d	43
170-175	е	48
175-180	2	F
Total	50	

Find the median for the following frequency distribution

Class	0-8	8-16	16-24	24-32	32-40	40-48
Frequency	8	10	16	24	15	7

During the medical check up of 35 students of a class, their weight were recorded as follows.

Weight (in kg)	Number of students
Less than 38	0
Less than 40	3
Less than 42	5
Less than 44	9
Less than 46	14
Less than 48	28
Less than 50	32