SATISH CHANDRA MEMORIAL SCHOOL

Class: VII

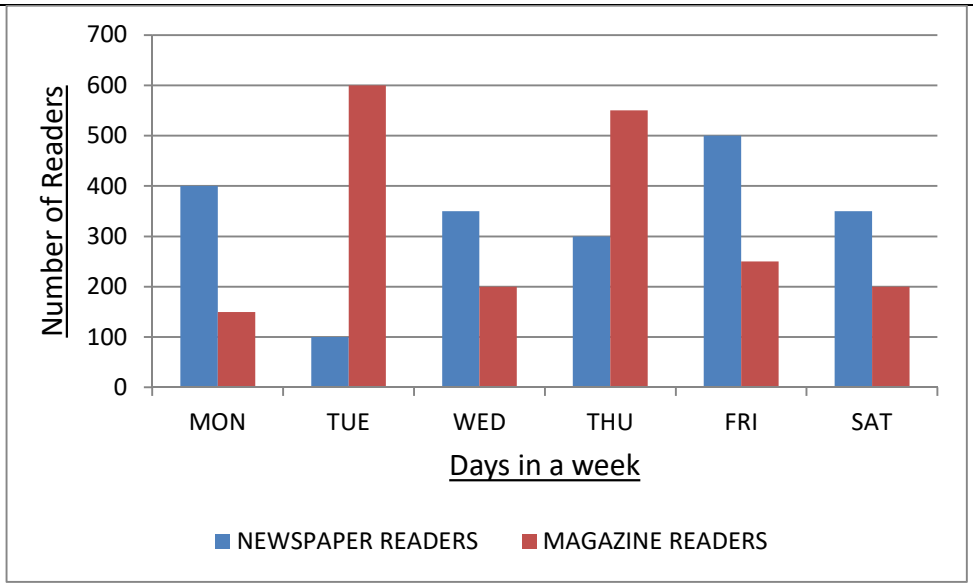
M.C.Q Test

Topic: Data Handling; Rational numbers

Maximum Marks: 20 **Time**: 25 minutes

- **Choose the correct Option**:

1.	The median of the numbers 85, 86, 78, 89 and 64 is						
(a)	78	(b)	85	(c)	84	(d)	86
2.	The mode of the data 4, 8, 4, 11, 4, 12, 8 is						
(a)	8	(b)	11	(c)	4	(d)	2
3.	If the mean of 26, 28, 25, x, 24 is 27, find the value of x.						
(a)	32	(b)	30	(c)	29	(d)	35
4.	Out of 5 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?						
(a)	Mean	(b)	Mode	(c)	Median	(d)	Range
5.	The mean of three numbers **a, b and c** is 8 and the mean of five numbers **a, b, c, d, e** is 15. Find the mean of **d and e**.						
(a)	25.25	(b)	26.25	(c)	25.5	(d)	26.5
6.	Find the range of the given data: -12, 17, -23, 8, 9, 25, 37, 17, 15, -2, 31						
(a)	60	(b)	14	(c)	48	(d)	54
7.	The mean age of 25 students in a class is 12 years. If the teacher's age is included, the mean age is increased by 1 year. The teacher's age is						
(a)	24 years	(b)	38 years	(c)	30 years	(d)	48 years
8.	The below double bar graph displays the record of number of readers of newspaper and magazine in a public library in a week:						



On which day the number of readers in the library is maximum?

(a)	Tuesday	(b)	Wednesday	(c)	Thursday	(d)	Saturday
9.	On which day the number of magazine readers in the library is maximum?						
(a)	Tuesday	(b)	Thursday	(c)	Friday	(d)	Monday
10.	Find the mean number of newspaper readers in the public library in a week.						
(a)	333 (approx.)	(b)	353 (approx.)	(c)	380 (approx.)	(d)	330 (approx.)
11.	The standard form of $\frac{-48}{60}$ is						
(a)	$\frac{48}{60}$	(b)	$\frac{-4}{5}$	(c)	$\frac{4}{5}$	(d)	$\frac{-4}{-5}$
12.	Which of the following is the equivalent rational number to $\frac{-13}{17}$						
(a)	$\frac{26}{-36}$	(b)	$\frac{39}{51}$	(c)	$\frac{-13}{-17}$	(d)	$\frac{26}{-34}$
13.	To reduce a rational number to its standard form, we divide its numerator and denominator by their						
(a)	HCF	(b)	LCM	(c)	Product	(d)	Multiple
14.	$If\ 3\frac{1}{6} + x = \frac{19}{42}, then\ the\ value\ of\ x\ is$						
(a)	$2\frac{5}{7}$	(b)	$-2\frac{5}{7}$	(c)	$-3\frac{13}{21}$	(d)	$-2\frac{3}{14}$
15.	$Multiplicative\ inverse\ of\ \frac{0}{-5}\ is -$						
(a)	$\frac{0}{5}$	(b)	$\frac{-5}{1}$	(c)	$\frac{5}{1}$	(d)	$Not\ defined$

16.	Every integer can be represented as a rational number with denominator						
(a)	0	(b)	-1	(c)	1	(d)	None of these
17.	Evaluate: $\left(\frac{3}{7}-\frac{1}{3}\right)\times\left(\frac{2}{9}-\frac{5}{6}\right)$						
(a)	$\frac{13}{63}$	(b)	$\frac{-11}{189}$	(c)	$\frac{11}{189}$	(d)	$\frac{-13}{63}$
18.	Simplify: $\frac{-7}{18}+\frac{5}{12}-\frac{9}{16}$						
(a)	$\frac{-35}{144}$	(b)	$\frac{74}{144}$	(c)	$\frac{-77}{124}$	(d)	$\frac{-77}{144}$
19.	**Assertion:** The median of the data 17, 25,14, 13, 16, 18 is 16.5 **Reason:** The median of a data is always an observation of the given data.						
(a)	**Assertion** and **Reason** both are correct and **Reason** is the correct explanation of the **Assertion.**						
(b)	**Assertion** and **Reason** both are correct but **Reason** is not the correct explanation of the **Assertion.**						
(c)	**Assertion** is true but **Reason** is false.						
(d)	Both **Assertion** and **Reason** are false.						
20.	**Assertion:** $\frac{19}{30}$ $is\ a\ rational\ number\ between\ \frac{2}{3}\ and\ \frac{3}{5}$ **Reason:** Between any two rational numbers we can find infinite number of rational numbers.						
(a)	**Assertion** and **Reason** both are correct and **Reason** is the correct explanation of the **Assertion.**						
(b)	**Assertion** and **Reason** both are correct but **Reason** is not the correct explanation of the **Assertion.**						
(c)	**Assertion** is true but **Reason** is false.						
(d)	Both **Assertion** and **Reason** are false.						