BCA 3RD SEMESTER											
MATHEMATICS (201) - MCQS											
S.NC	QUESTIONS	A	В	C	D	ANS					
1	Any measure indicating the centre of a set of data, arranged in an increasing or decreasing order of magnitude, is called a measure of	Skewness	Symmetry	Central tendency	Dispersion	С					
2	Scores that differ greatly from the measures of central tendency are called:	Raw scores	The best scores	Extreme scores	Z-scores	C					
3	The measure of central tendency listed below is:	The raw score	The mean	The range	Standard deviation	В					
4	The total of all the observations divided by the number of observations is called:	Arithmetic mean	Geometric mean	Median	Harmonic mean	A					
5	While computing the arithmetic mean of a frequency distribution, the each value of a class is considered equal to:	Class mark	Lower limit	Upper limit	Lower class boundary	В					
6	The sum of the squares fo the deviations about mean is:	Zero	Maximum	Minimum	All of the above	C					
7	For a certain distribution, if $\sum (X - 20) = 25$, $\sum (X - 25) = 0$, and $\sum (X - 35) = -25$, then is equal to:	20	25	-25	35	В					
8	The sum of the squares of the deviations of the values of a variable is least when the deviations are measured from	Harmonic mean	Geometric mean	Median	Arithmetic mean	D					
9	If X_1 , X_2 , X_3 , X_n , be n observations having arithmetic mean and if Y =4X \pm 2, then is equal to:	4X	4	4 ± 2	4 ± 2	C					
10	If =100 and Y=2X – 200, then mean of Y values will be:	0	2	100	200	A					
11	If the arithmetic mean of 20 values is 10, then sum of these 20 values is:	10	20	200	20 + 10	C					
12	Ten families have an average of 2 boys. How many boys do they have together?	2	10	12	20	D					
13	If the arithmetic mean of the two numbers X_1 and X_2 is 5 if X_1 =3, then X_2 is:	3	5	7	10	C					
14	We must arrange the data before calculating:	Mean	Median	Mode	Geometric mean	В					
15	The lower and upper quartiles of a symmetrical distribution are 40 and 60 respectively. The value of median is:	40	50	60	(60 – 40) / 2	В					
16	If in a discrete series 75% values are greater than 50, then:	$Q_1 = 50$	Q ₁ < 50	Q1 > 50	$Q_1 \neq 50$	A					
17	Suitable average for averaging the shoe sizes for children is	Mean	Mode	Median	Geometric mean	В					
18	A measurement that corresponds to largest frequency in a set of data is called:	Mean	Median	Mode	Percentile	C					
19	Which of the following average cannot be calculated for the observations 2, 2, 4, 4, 6, 6, 8, 8, 10, 10?	Mean	Median	Mode	All of the above	С					

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20	What have been constructed from OR problems and methods for solving the models that are available in many cases?	Scientific models	Algorithms	Mathematical models	None of these	C					
21	Which of the following is not the phase of OR methodology?	Formulating a probler	Constructing a model	Establishing controls	Controlling the environment	D					
22	Operations research is the application ofmethods to arrive at the optimal solutions to the problems.	Economical	Scientific	Both A and B	Artistic	В					
23	In operations research, the are prepared for situations.	Mathematical models	Physical models diagrammatic	Diagrammatic models	Both B and C	A					
24	OR can evaluate only the effects of	Personnel factors	Financial factors	Numeric and quantifiable factors	Both A and B	C					
	Which technique is used in finding a solution for optimizing a given objective, such as profit maximization or cost reduction under certain constraints?	Qualing theory	Waiting Line	Both A and B	Linear Programming	D					
26	By constructing models, the problems in libraries increase and cannot be solved.	TRUE	FALSE	i.		В					
27	A solution can be extracted from a model either by	Conducting experiments on it	Mathematical analysis	Both A and B	Diversified Technique	C					
28	The main limitation of operations research is that it often ignores the human element in the production process.	TRUE	FALSE			A					
29	Feasible solution satisfies	Only constraints	only non- negative	Both A and B	A, B and optimal solution	C					
30	What is the objective function in linear programming problems?	A constraint for available resource	An objective for research and development of a company	A linear function in an optimization problem	A set of non- negativity conditions	C					
	What is merits & demerits of mean ?										
	Write the formula for mode for group data.	2-15									
	What is the relation between mean , mediam & mode .	TIL									
$\overline{}$	ExplianKarl Person's Methods										
35	Write short notes on Assignment Problems.										