

B.com Sem-6 Business Statistics

No.	Question	Ans . A	Ans. B	Ans. C	Ans. D	Ans.
1	Utility function is a _____ function.	constant	continuous	decreasing	linear	B
2	Which method is used to maximize utility function ?	least square method	Lagrange's multiplier method	forecasting method	regression method	B
3	In usual notation how can budget equation be expressed?	$I = xpx + ypy$	$I = xpx - ypy$	$I = x + px + y + py$	(a) and (b) both	A
4	The power or the property of a commodity or service to satisfy a human necessity is known as _____.	utility	total utility	marginal utility	(a) and (b) both	A
5	In utility function, the values of u,x and y are always_____.	negative	positive	non negative	fraction	B
6	Utility function is to be maximised subject to_____.	production cost	production function	budget equation	marginal utility	D
7	Cost function is to be minimised subject to_____.	production cost	production function	budget equation	utility function	B
8	A set of data depending on time is called_____.	continuous series	arithmetic series	geometric series	time series	D
9	The study of time series helps us _____.	In understanding the post behaviour	In understanding the present situation	In predicting the future value	all above	D
10	Long term variation can be divided in to ___ parts.	2	3	4	6	A
11	From the following which method is not include to determine trend in time series?	graphical method	least square method	moving average method	binomial expansion method	D
12	Which method of finding trend is not reliable for prediction?	graphical method	moving average method	least square method	(a) and (b) both	D
13	"The trend is linear in the time series" is an assumption of _____ method.	graphical	least square	moving average	(b) and (c) both	D

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14	Moving average method is based on principle.	averaging	multiplication	ratio	subtracting	A
15	"Sales of readymade garments in Diwali" is an illustration of_____.	cyclical variation	trend	seasonal variation	irregular variation	C
16	If denotes the total variation of time series then $O = \text{_____}$	$T+S+C+I$	$T \times S \times C \times I$	$T+S-C-I$	$T-S+C-I$	A
17	For the study of motion of different story and planets _____ is useful.	index number	timeseries	demography	interpolation	B
18	Which of the following is not an illustration of irregular variation?	proportion of unem	proportion of unemployment	sale of woolen clothes in winter	all above	D
19	Time period of the cyclical variation is _____.	more than one year	less than one year	one year	none of these	A
20	Which method is the best for prediction?	graphical	least square method	moving average	(a) and (b) both	B
21	From the following, which component is not of decision theory ?	Act	event	pay off matrix	seasonal variation	D
22	The monetary gain or loss from the combination of act and state of nature is known as_____.	pay off	pay off matrix	EMV	EVPI	A
23	In Hurwitz's principle the value of α is between_____ and_____.	-1 , 1	0 , 1	-1 , 0	none of these	B
24	State the formula for finding best act according to Hurwitz's principle.	$\alpha \times \text{maximum pay off} + (1-\alpha) \times \text{minimum}$	$\alpha \times \text{minimum pay off} + (1-\alpha) \times$	$\alpha \times \text{minimum pay off} + (\alpha-1) \times$	$\alpha \times \text{maximum pay off} + (\alpha-1) \times$	
25	Expected value of perfect information (EVPI)	EPPI+ max. EMV	EPPI- max. EMV	EPPI + min. EMV	EPPI - min. EMV	B
26	State the method of taking decision under risk.	max.-min. principle	Laplace principle	EMV principle	Hurwitz's principle	C
27	Which principle is a pessimistic approach?	max.-min. principle	max-max principle	EMV principle	Hurwitz's principle	A

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28	Which principle is a optimistic approach?	max.-min. principle	max-max principle	EMV principle	Laplace principle	B
29	State method of taking decision under uncertainty.	max-min principle	Laplace principle	EMV principle	(a) and (b) both	D
30	A compromise between the optimistic approach of maxi-max principle and the pessimistic approach of maxi-min principle is_____.	Laplace principle	Haurwitz's principle	EMV principle	none of these	B
31	The sum of products of pay-offts of any act and the corresponding probabilities of the States of nature=_____.	EVPI	EPPI	EMV	EVPI - EMV	C
32	State equation of a line parallel to X-axis and at the distance of 4 units from it.	x=4	y=4	y-4=0	(b) and (c) both	D
33	state equation of X-axis.	y=0	x=0	y=mx	x=a	A
34	State equation of a line with slope m and passing through origin.	y=mx + c	y-y1 = m(n-x1)	y =mx	y=x	C
35	slope of line is 2.then slope of a line parallel to it =_____.	1/2	-1/2	2	-2	C
36	If two lines are perpendicular to each other,than the product of their slope =_____	1	-1	0	-2	B
37	A line makes intercept 3 on Y - axis and its slope is 2. state its equation.	y = 3x + 2	y = 2x + 3	2y = 3x	y = 2x - 3	B
38	A ratio of difference of y- coordinator to the difference of x- coordinator of two points is said to be_____	slope	intercept	equation of a line	intersection point	A
39	State equation of a live parallel to y-axis at the distance of b unit.	y=b	x=b	x-b=0	(b) and (c) both	D