FY.B.A FIBA Stats I Sem I

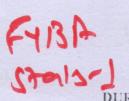
23/11/17
3 to 6.

DURATION: 3 HOURS

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N.B.: 1 All questions are compulsory.

2 Use of simple calculator is allowed.



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MARKS:100

2 Use of simple calculator is allowed.

Q.1	(a)	Correct the	following if	necessary.					10	
	(1)	Economic Sta	atus of Fami	lies is an ex	ample of c	ordinal scale	of measur	amant	10	
	(2)	Data from Ec	conomic & P	olitical wee	ekly is prin	nary data	or measur	ement.	02	
V. Y.	(3)	Rainfall for the	he state of N	1aharashtra	represents	a discrete ra	andom vari	able	02	
	(4)	skewness is c	reparture fro	om symmetr	V.				02	
	(5)	Standard devi	iation is not	affected by	shift of ori	igin and cha	nge in scal	٥	02	
					011111 01 01	igin and cha	nge in sear	С.	02	
	(b)	Answer in or	ie sentence.						10	
	(1)	Define Qualit			lata.				10	
	(2)	Explain briefl	y SRSWOR						02 02	
	(3)	Define rth raw	and central	moment.						
	(4)	Explain Kurto	osis for a fre	quency curv	re.				02	
	(5)	State the form	ula for D ₈ a	nd P ₈₉ .					02	
									02	
Q.2		Attempt any	Two						20	
	(1)	(A)Distinguis	h between p	rimary and	secondary	data			20	
		(B) Explain T	ime series a	nd Geograp	hical data	with exampl	P		05 05	
	(2)	(B) Explain Time series and Geographical data with example.(A) Bring out the difference between Questionnaire and schedule.								
		(B) Describe dichotomous classification for two attributes.								
	(3)	(A) Explain th	e methods of	of collecting	secondary	data			05 05	
		(B) An eatery	in Chennai	is visited by	both colle	ge students	and emplo	ved males	05	
		(B) An eatery in Chennai is visited by both college students and employed males and females for dosa or idli. On a particular day 1800 customers visited the								
		restaurant, 50	% of them b	eing males	and 800 ha	ving dosa	200 mala c	tudanta		
		nad dosa wniie	e two-third r	nales had ic	lli of which	300 were e	mnloved r	nales 250		
		remaie student	ts had dosa a	and 200 emp	oloyed fem	ales had idl	. Tabulate	the above		
		information.								
	(4)	The social of th								
		of configation.								
		(B) Discuss the	e key feature	es in constru	acting a qu	estionnaire.			05	
									03	
Q.3		Attempt any Two								
	(1) (A) Explain the concept of Measures of Central Tendency and different measures of central tendency and different measures.								20 05	
		of central tendency.								
	(B) Explain the effect of change of origin and scale on Arithmetic mean								05	
	(2)	(A) Explain Graphical representation of data with suitable illustration.								
									05	
		(B) Draw a frequency polygon for the following data:								
		Sales	0-10	10-20	20-30	30-40	40-50		05	
		No. of days	9	18	35	27				
		10.02 44.33		10	33	27	11			

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	(3)	(A) Explain weighted and combined Arithmetic mean.(B) Write merits and demerits of Median.	0:
	(4)	(A) Describe the applications of measures of central tendency(B) Define Mode. Explain how to calculate mode for grouped and ungrouped	05
		data.	05
Q.4		Attempt any Two	. 20
	(1)	(A) State the requisites of a good measure of Dispersion.(B) Discuss the Relative measures of Dispersion you have studied.	05
	(2)	(A) Obtain the relationship between the first four Raw and Central Moments	05
	(2)	(B) Define Mean Absolute deviation and Quartile deviation.	05
	(3)	(A) Distinguish between positively and negatively skewed distribution.(B) Describe the relative measures of Skewness.	05
	(4)	(A) Illustrate the different types of Kurtosis for a frequency curve.	05
	(-)	(B)Discuss the properties of Standard deviation.	05
		() seed and proportion of Standard deviation.	05
Q.5		Attempt any Four	20
	(1)	Differentiate between discrete & continuous random variables.	20 05
	(2)	State the four scales of measurement used in data analysis and explain any one	05
	(3)	Define Geometric mean and Harmonic mean.	05
	(4)	Write a short note on Quantiles.	05
	(5)	State merits and demerits of Mode.	05
	(6)	Bring out the significance of the study of Dispersion of data.	05
	(7)	With reference to graphical display explain the Doy alot	
