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Sardar Patel University

S.Y.B.Sc.(Semester-III) Examination Subject:-Foundation of statistics-I

	SubjectPouritation of Statistics	
	Paper Code:-USU3FSTAUL Time:-48:00 pm to 02:00 p.m. Marks:-70	
Dat	e:-15/05/2022, day / Hitte: 12:00 p.m. to 02:00 p.m.	10]
Q,1	Multiple Choice Questions: -	-01
1	The main aim of sample survey is to get reliable information about the in	
	less time.	
	(a) sample (b) population (c)both (a) & (b) (d) None of these.	
2	In type of sampling, the sample survey is the only way out.	
	(a) constructive (b) destructive (c) both (a) & (b) (d) None of these.	
3	A qualitative characteristic under study is called (d) None of these	
	(a) variable (b) attribute (c) constant (d)None of these Primary data are the hand information collected, compiled and	
4	Primary data are the name mornation concerns, and	
	published by origination for some purpose. (a) first (b) second (c)Both (a) & (b) (d)Noneof these.	
	(a) first (b) second (c)Both (a) & (b) Authorise these.	
5	A qualitative characteristics under study is called (a) variable (b) attribute (c)both (a) & (b) (d)Noneof these.	
	(a) variable (b) attribute (c)both (a) & (b) (d) None of these. note must be given at the bottom of the table, if secondary data is used.	
6	(b) Foot (c) 1690 (i) Notice of these	
	(a) Source (b) Foot (c) Head (d) Notice of these (e) Source (a) Source (b) Foot (c) Head (d) Notice of these (e) Head (d) Notice of these (e) Head	
7	the similarities or common characteristics.	
	(2) description (b) Tabulation (clboth [a] & [b] (d) Note of these.	
0	note must be given at the hortom of the table, it secondary data is used.	
8	(c) Head Q i Note of these	
0	A sample of 5 body weights (in pounds) is as follows: 116,168,124,132 and 110.	
9	The cample median is	
•	(a) 124 (b) 116 (c) 132 (d)Noneof these.	
10	The arithmetic mean of 1 2 3 n is	
10	(a) $(n-1)/2$ (b) $(n+1)/2$ (c) $n/2$ (d) None of these	(oo)
Q.2.	1111 in the blanker	[80]
1	20 - 10 - 12000 population 60% constitutes Hindu, 20% Musilins, 10% Sikila	
4-	1400/ Christians, Wo want to take a sample of 10% of the population to study	
	the eating habits of this population. The best method would be	
	(Simple Random Sampling: Stratified Kandom Sampling)	
2	With reference to systematic sampling k is called	
	(Court Interval - Cample fraction)	
3	is a media of communication between investigator and respondents.	
	(
4	can host he described as a categorical variable.(Feligion, ago)	
5	The is the part of the tabulation.(schedule; body)	
6	The reality characteristic under study is called (quantitative ,quantitative)	
7	The mean is the measurement of(dispersion; certural tendancy)	
8	A cample of five hody weight (in pounds) is given below.	
	168.110.116.132,124. Then the median is(116;124)	[20]
Q.3	. Short Questions: - (Attempt any Ten)	(1
1	or a la distriction of etatistics	
2	Explain about the Lottery method for drawing the sample from the population.	

- What is the stratified random sampling. 3
- What is the secondary data? 4
- State the precaution while using secondary data. 5
- State the source of secondary data. 6
- Define ordinal data and nominal data. Give two examples of each. 7
- What is the Tabulation?
- What is the classification? 9
- What is central tendency? State the different measures of central tendency with 10 their formula.
- What do you mean by Dispersion? List out the various measures of Dispersion. 11
- Explain the concept of positive and negative skewness by sketching diagram. 12
- Long Questions: (Attempt any four)

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- Name the method of sampling that can be used when population is homogeneous. Explain it.
- State the applications of statistics. Describe any four of them. 2
- State the different method of collecting primary data. Describe any one of them. 3
- What do you mean by questionnaire? State essential points to be remembered in 4 drafting a questionnaire. State the main difference between Primary data and secondary data.
- Table below gives the availability of the hydro-electricity in Rajasthan from 5 various sources.

Source	Available hydro-electricity (MW)
Bhakra Nangal	195.27
Beas Unit-1	132.00
Beas Unit-2	140.0
Gandhi Sagar	57.50
Rana Pratap Sagar	86.00
Jawahar Sagar	49.50

Display the supply of Electricity data by Pie-chart .Show the complete calculations. State the types of Bar chart. Explian any one of them.

Blood cholesterol levels were recorded for 50 persons sampled in a medical study 6

group and the following data were obtained.

group	and the	e follov	ving da	ata we	re opt	ainea.			
233	212	249	227	249	258	265	256	286_	258
161	195	233	199	282	286	195	299	310	286_
210	301	357	195	226	355	234	195	195	355
179	174	281	154	196	163	297	330	258	163
205	227	223	244	176	218	284	245	249	218
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Construct frequency distribution table. Write all the calculations clearly

Calculate (i) Mean (ii) Median (iii) Mode (iv) Standard deviation (v) Coefficient of variation (vi) coefficient of skewness from the data given below:

The heart rates (beats/minute) of the 18 patients upon admission to the hospital are listed below:

are Hstet	r berow:						·	— · -)
167	150	125	150	150	140	136	120	150
		145	1.45	136	120	125	152	142
								$c \circ o \circ 1$

The following table shows the distribution of the life time (in hours) of 200 bulbs 8

Life-time (in hours)	100-	150-	200-	250-	300-	350-	400-
	150	200	250	300	350	400	450
No. of bulbs	6	18	73	65	12	22	4



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