P32/P131/CMP221/CMP504/EE/20250111

1	nstruc	tions :							2	
2		ch Sub-question o							20	
3		ch Sub-question swer on separate		e answe	red betw	veen 75 t	o 100 wo	rds. Write	every ques	stions
4.		estion paper of 80		, it will b	e conve	rted in to	your pro	gramme st	ructure ma	arks.
-				-	-		- (_
1.		ve any four sub-	*			C	2	?		5
	a)	Define 'Statist							- 6200 most	
	b)	Following is the	e freque	ency distr	ribution	of waitin	ig time (ii	seconds)	51 200 cust	5
		Waiting-time	0-20	20-40	40-60	60-80	80-100	100-120	Total	
		(In seconds)			200 8000	20				
		Customers	20	30	70 €	50	20	10	200	
		Find mean wai	ting tim	e, [(U =	(X-60)/20)]				
	c)	Define Range a	ınd writ	e merits	and den	nerits of	Range.			
				10	700					
	d)	Different between	en inch	usive me	thod an	d exclus	ive metho	od of frequ	ency distri	ibution
	d)	Different between	en incli	usive me	thod an	d exclus	ive metho	od of frequ	ency distr	ibution
	d) e)	Different betwee		10		d exclus	ive metho	od of frequ	ency distri	ibution
				10		d exclus	ive metho	od of frequ	ency distr	ibution
2.	e)		rt with p	one exan		d exclus	ive metho	od of frequ	ency distri	ibution
2.	e) Solve	Explain pie cha	rt with cuestions	one exan	nple.					
2.	e) Solve	Explain pie cha	rt with cuestions	one exan	nple.	e data o	on numb			
2.	e) Solve	Explain pie cha e any four sub-qu Discrete freque	rt with cuestions	one exan	nple.	e data o	on numb			
2.	e) Solve	Explain pie cha e any four sub-qu Discrete freque manufactured in	uestions ency din a bate	one exam	on. The	e data o	on numbow.	er of non-		
2.	e) Solve a)	Explain pie cha e any four sub-que Discrete freque manufactured in x 0 Boxes 30	uestions din a batc	istribution of 100	on. The is repo	e data o	on numbow.	er of non-		
2.	e) Solve a)	Explain pie chase any four sub-que Discrete freque manufactured in x 0 Boxes 30	uestions din a bate 1 45	ss. stribution of 100	on. The is repo	e data orted belo	on number ow.	er of non-		
2.	e) Solve a)	Explain pie cha e any four sub-que Discrete freque manufactured in x 0 Boxes 30 Find standard de	uestions dency din a bate 45	s. istribution of 100 2 18 mode, cl	on. The is repo	e data orted belo	on number ow.	Total 100	-confirmi	
2.	e) Solve a) b)	Explain pie chase any four sub-que Discrete freque manufactured in x 0 Boxes 30	uestions de la batc de la batc de la constitución d	istribution of 100 2 18 mode, clarts, dra	on. The is repo	e data orted belo	on number ow.	Total 100	-confirmi	

Following table shows classes, class boundaries, frequencies, class marks. Calculate relative frequencies, percent relative frequencies.

	Weight in kg	47-49	50-52	53-55	56-58	59-61	62-64	65-67	68-70
İ	Frequency	3	6	9	15	27	20	13	CA

- 3. Solve any four sub-questions.
 - a) Explain the 'coefficient of skewness'.

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- b) There are 40 white balls and 50 black balls in an 20% of white balls and 10% of black balls are marked. A person tosses a fair coin. If coin show head, he selects a ball form white balls, otherwise he select a ball form black balls. What is probability that the selected ball marked?
- Verify whether f(x) = [4-1 x-51] | 16 for x = 2, 3, ..., 8 is a probability mass function of some random variable x. If it is obtain $p(x \le 4)$, $p(x \le 4)$ and $p(x \ge 6)$.
- d) Write a note on "Statistical Hypothesis".

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- e) Describe statistical test for testing equality of population means for
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- i) Independent sample
- ii) Dependent sample
- 4. Solve any four sub-questions.
 - a) Explain discrete random variable.

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b) Describe test for specified population mean.

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c) Explain random experiments with examples.

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d) Write properties of central moments.

e) Write merits and demerits of mode.

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