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(Pages: 3)

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		(2017 Admiss	sion o
Time:	Three Hours		
		PAR	ет а
	A	nswer <i>all</i> question. Each	
1.	Two events are sa	aid to be when	n the
	the occurrence of	the other	
	a. Dependent	b. Equally likely	с
2.	Which among the	e following is not a proba	abilit
	a. 0	b. 1	с
3.	If plotted points	in a dot chart lie on a str	raigh
	of correlation		
	a. High degree	b. Low degree	с
4.	Coefficient of con	ncurrent deviation depen	nds or
	a. The sign of var	riation	b
	c. Both a and b		d
5.	If X and Y are in	dependent the value of re	egres
	a. 0	b. 1	с
Fill in	the blanks:		
6.		s called as	
	-	g due to drawing infere	ences
7.	observation is cal	0	
0			on ir
0.		the percentage variation	лп
~	independent varia		
	_	cy approach to probabilit	-
10	Deremator of a ne	bisson distribution is also	o kno

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	EXAMINATION, APRIL 2023
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ion onwards)	
	Maximum: 80 Marks
ТА	
n question carries	mark.
the occurrence of	f any one of them precludes
c. Exhaustive	d. Mutually exclusive
ability?	,,
c0.5	d. none
aight line parallel	to X axis, it shows
c. Absence	d. None
ds on	
b. Magnitude o	of deviation
d. None	
egression coefficie	ent b_{yx} is equal to
c. Infinity	d. None
ences about the po	opulation on the basis of few
on in the depende	ent variable in relation with
y is also known as	s

known as

 $(10 \times 1 = 10 \text{ Marks})$

Turn Over

PART B (Short Answer Questions)

Answer any *eight* questions. Each question carries 2 marks.

- 11. Explain random experiment?
- 12. Explain concurrent deviation method?
- 13. Define test of goodness of fit?
- 14. Define power of a test?
- 15. What is a parameter?
- 16. Explain any two properties of Normal distribution?
- 17. Define uncertain events?
- 18. What do you mean by simple event?
- 19. Relation between correlation coefficient and regression coefficients?
- 20. What do you mean by lead correlation?

 $(8 \times 2 = 16 \text{ Marks})$

PART C (Short Essays)

Answer any *six* questions. Each question carries 4 marks.

21. Find the correlation between price and demand

Price	:	30	35	40	42	45
Demand	:	30	25	20	18	10

22. Find the regression equation of x on y

Х	:	5	7	8	12	18
Y	:	8	6	9	10	17

- 23. Write short note on the following?
 - 1. Sample space
 - 2. Exhaustive events
 - 3. Impossible events
 - 4. Dependent event

24.A ball is drawn from a bag containing 6 white, 4 Red and 7 green balls. Find the probability

of drawing 1. Red ball 2. White ball 3. Green ball 4. White or green.

25. Explain procedure for testing hypothesis?

26. A car hire firm has 3 cars which it hires out day by day. The number of demands for a car on each day is distributed as a poisson variate with mean 1.5. Calculate the proportion of days on which 1. Neither car is used.2. Some demand is refused.

27. In a normal distribution 31% of distribution are under 45 and 8% are over 64. Find mean and S.D.

standard deviation of 40. Is her claim valid?

PART D (Essay Question)

- 29. Write short notes on the following?
 - 1. Type1 and Type 2 errors.
 - 2. Nonparametric test with example.
 - 3. Different kinds of correlation.
 - 4. Conditional probability.
 - 5. Contigency table.

30. Explain the procedure for Oneway Analysis of variance?

31. Calculate rank correlation from the following data?

Χ	48	33	40	9	16	16	65	24	16	57
Y	13	13	24	6	15	4	20	9	6	19

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28. A stenographer claims that she can take dictations at the rate of more than 120 words per minute. Of the 12 test given to her she could perform an average of 135 words with a

 $(6 \times 4 = 24 \text{ Marks})$

Answer any *two* questions. Each question carries 15 marks.

 $(2 \times 15 = 30 \text{ Marks})$