21 U	249	(Pag	ges: 2)	Name:			
				Reg. No:			
SECON	D SEMESTER B	.Com. PROFESSIO	NAL DEGREE	EXAMINATI	ION, APRIL 2022		
		(CUCB	CSS-UG)				
		(Regular/suppleme	entary/Improveme	ent)			
	CC17U BCP2 I	308 - QUANTITATI	VE TECHNIQU	JES FOR BUS	SINESS		
		(Core	Course)				
Timor	Three Hours	(2017 Admis	ssion onwards)	Movi	mum 90 Marks		
Time.	Three Hours			IVIAX	IIIuIII. ou Marks		
		PA	RT A				
	Ans	swer <i>all</i> questions. Ea	ch question carrie	es 1 mark.			
1.	"A posteriori" pr	obability is the other	name of	probabilit	y approach		
	a) Axiomatic	b) classical	c) Modern	d)	Relative frequency		
2.	The correlation c	value					
	a) 0	b) – 1	c) -2	d)	+1		
3.	The probability of	of getting a spade king	g from a pack of c	ards			
	a) 2/52	b) 3/52	c) 4/52	d)	1/52		
4.	The null hypothe	sis is denoted by					
	a) H ₀	b) H 1	c) H ₂	d)	none		
5.	If the two regression co-efficients are -0.8 and -0.2 then value of "r" is						
	a) -0.16	b) 0.4	c) +0.16	d)	-0.4		
6.	Cor	relation is suitable for	qualitative varia	bles.			
7.	Accepting hypoth	nesis when it is false i	S				
8.	A Is	function of population	on value.				
9.	Binomial distribution	ition is also known as	Dis	tribution.			
10	. Regression line is	s called as					

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

PART B

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

- 11. What is meant by exhaustive events?
- 12. What is level of significance?
- 13. What do you mean by partial correlation?
- 14. What is regression analysis?
- 15. Define equally likely events.
- 16. Compute S.E if population S.D is 6.3 and n=100.
- 17. Define dependent events.
- 18. What is Type I error?

19. What do you mean by Test Statistic?

20. Describe chi-square quantity.

(8 × 2 = 16 Marks)

PART C

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

21. What are the major limitations of quantitative techniques?

22. Find mean and variance from the following.

Х	0	1	2	3	4
P(X)	1/4	1/5	2/5	1/8	1/40

23. Explain difference between correlation and regression?

24. Three coins are tossed, what is the probability of obtaining?

All heads
at least 2 heads
at the most one head
two heads
Explain properties of Poisson distribution.

26. Find coefficient of correlation from the following data.

X	12	20	35	22	18	24	15
Y	30	35	28	29	25	30	25

27. A die is thrown 150 times. Test the hypothesis that the die is unbiased.

Х	:	1	2	3	4	5	6
Frequency	:	19	23	28	17	32	31

28. Write short note on variance ratio test.

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

PART D

Answer any two questions. Each question carries 15 marks

- 29. The probability that doctor A will diagnose disease B correctly is 0.7. The probability that a patient will die by his treatment after correct diagnosis is 0.4, and the probability of death by wrong diagnosis is 0.7. A patient of the doctor who had the disease B died. What is the probability that his disease was not correctly diagnosed?
- 30. From the following data use chi-square test to test whether education depends on sex.

SEX	EDUCATION					
	MIDDLE	HIGHSCHOOL	COLLEGE			
MALE	52	10	20			
FEMALE	44	12	26			

31. Explain procedure for two classification of ANOVA.