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FYUG PROGRAMME EXAMINATIONS, NOVEMBER 2024 (2024 Admission Regular) SEMESTER I – CORE COURSE - BMS(HONS.) (IB)

MS1CC03B24: BUSINESS STATISTICS AND LOGIC

Time: 2 Hours Maximum Marks: 70

PART A

I. Answer any 5 questions. Each question carries 2 marks

Q.No:	QUESTIONS	CO	LEVEL
1.	Determine $P(A \cap B)$. If $P(A) = 5/13$, $P(B) = 3/7$, $P(A \cup B) = 59/91$.	Ш	Ap
2.	Define independence of events.	Ш	R
3.	Define compound event.	Ш	R
4.	Define conditional probability.	Ш	R
5.	Choose among the following. If POSTER is coded as 592314 and DARK is coded as 8647, then STROKE will be coded as: a)234917 b) 234971 c) 493287 d) 329417	IV	Ap
6.	Select the odd number out from the following: 8, 27, 64, 100, 125, 216, 343 a) 27 b) 100 c) 125 d) 343	IV	Ap
7.	Calculate the sum of first 12 even natural numbers. a) 156 b) 126 c) 108 d) 112	IV	Ap
8.	Choose the correct option from the following. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D. a) Grandfather b) Grandmother c) daughter d) Granddaughter	IV	Ap (5.2.10

(5x2=10)

PART B II. Answer any 4 questions. Each question carries 5 marks

Q.No:	QUESTIONS	CO	LEVEL
9.	Explain Frequency Polygon.	I	R
10.	Explain measures of central tendency? Define any Three of them	I	U

11.	Calculate Karl Pearson's coefficient of correlation from the data given								Ap	
	X									
	Y	12	14	16	18	20				
12.	Comm	Comment on the two regression lines								
13.	Explain the terms random experiment, sample point, sample space, event.									
14	Define (1) Mutually exclusive events (2) Independent events							Ш	R	

 $\overline{(4x5=20)}$

PART C

III. Answer any 2 questions. Each question carries 20 marks.

Q.No:	QUESTIONS										LEVEL
15.	Define co-efficient of variation. The yields of two varieties of wheat each cultivated in 10 locations are given below										Ap
	Variety Yield (kg/plot)										
	A 21.6 29.5 27.3 41.6 38.4 39.2 41.1 46.5 40.0 47.1										
	В	23.5 27.	4 23.8	28.3	24.6 2	5.2 27	.3 27.1	25.6	29.1		
	Find out	the yield	of whi	ch var	iety is	relativ	ely mo	re con	sistent.		
16.	Explain in detail about the types of data and the sources of data									I	U
17.	From the following data find the coefficient of correlation and obtain the two regression equations								П	Ap	
	X 1	1 2	3	4	5	6	7	8	9		
	Y	8	10	12	11	13	14	16	15		
18.	Define mutually exclusive and exhaustive events and write examples of each of the following.								Ш	U	
	(i) mutually exclusive and exhaustive events.(ii) mutually exclusive but not exhaustive events.										
	(iii) not	t mutually	exclus	sive bu	t exha	ustive	events	•			

(2x20=40)

CO: Course Outcomes Level: R - Remember, U - Understand, Ap-Apply, An-Analyze,

E- Evaluate, C- Create