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Note: I	SARDAR PATEL UNIVERSITY M.Sc. (IV Semester) Examination 2018 Tuesday, 23 rd October 2.00 pm to 5.00 pm STATISTICS COURSE No. PS04CSTA01 (Computer Oriented Statistical Methods) Figures to the right indicate full marks of the questions. (Total Marks: 70)	
1 (a)	Attempt all, write correct answers Inverse transform of exponential d.f. with parameter value 1 yields RNG = (i) a constant (iii) -u	08
	(ii) 1/u (iv) -ln(1-u)	
(b)	Exponential and Beta random deviates generation uses respectively the following operations of uniform numbers	
	(i) ratio, logarithmic (iii) logarithmic, ratio (iv) product, ratio	
(c)	In LCG $2 + 2 X_{n-1}$ with modulus 7, worst choice of seed value X_0 is	
	(i) 1 (iii) 0 (ii) 2 (iv) 5	
(d)	(i) Arithmetic mean of countable uniform deviates (ii) Arithmetic mean of countable Exponential deviates (iii) Arithmetic mean of finite Exponential deviates (iv) Geometric mean of countable exponential deviates	
(e)	Which of the following is not a data reduction techniques? (i) Cluster analysis (ii) Principal component analysis (iv) Discriminant analysis	
(f)	The canonical correlation between the first canonical pair of variates is given by (i) greatest variance (iii) greatest eigen value	

(ii) greatest eigen vector length The proportion of variance in variables attributable to the common factors is **(g)**

(i) communality

(iii) factor loading

(iii) factor score

(iv) none of above

(iv) smallest eigen value

(h) For the Cox proportional hazard model an assumption is optional, it is

(i) covariates are time independent

(iii) covariates are multiplicatively related

(ii) survival times are Weibull

(iv) baseline hazard is common

(PTO)

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