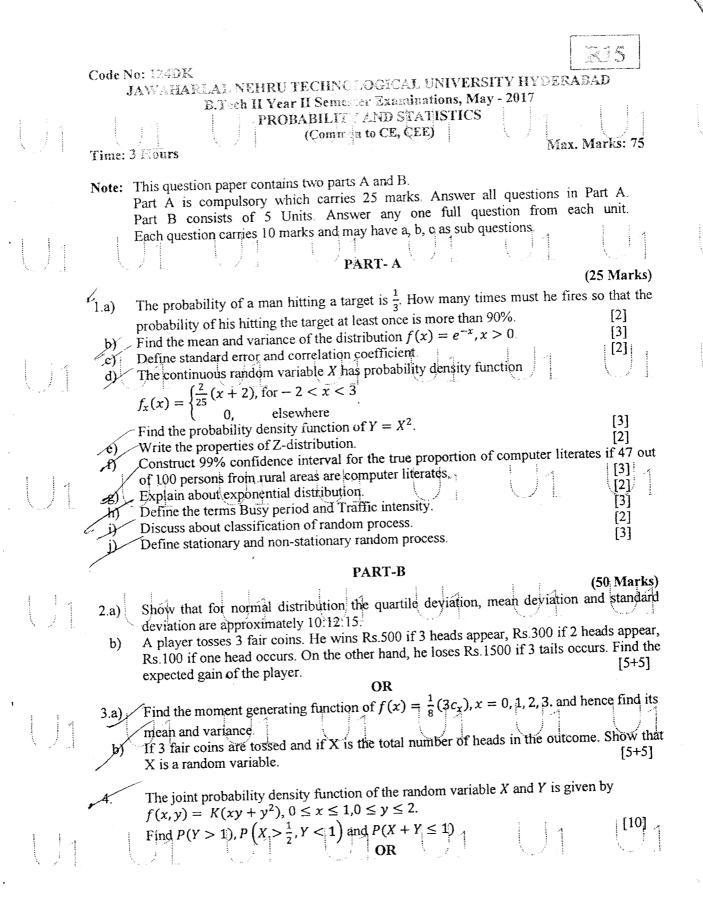


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	5. Use formula $\rho = \frac{\sigma_{x+y}^2 - \sigma_{y}^2 - \sigma_{y}^2}{2\sigma_{x}\sigma_{y}}$, compute the correlation coefficient to the following data	
	10	
	 Discuss test of independence of attributes with a suitable example. A briefcase manufacturing company claims that 80% of executives carry briefcatorious produced by them. Verify its claims if in a random sample of 900 executives, 675 to the company's briefcases. Use 5% level of significance. 	iscu
	OR Discuss various types of alternative hypothesis with suitable example. b) The average weekly losses of man hours due to strikes in an institute before and aft disciplinary program was implemented are as follows	er a
	Before 45 73 46 124 33 57 83 34 26 17 After 36 60 44 119 35 51 77 29 24 11	
	Is there reason to believe that the disciplinary program is effective at 0.05 LOS? [5+	/1
	Workers come to a tool store room to enquiry about the special tools for a particular The average time between the arrivals is 60 seconds and the arrivals are assumed to be Poisson distribution. The average service time is 40 seconds. Find i) average quenching length ii) Average length of non-empty queue. OR A PC repairman finds that the time spend on jobs has an exponential distribution mean 30 minutes. If the sets are repaired in the order, in which they come in, and it arrival of sets is approximately Poisson with an average of 10 per 8 hour day, what it repairman's expected idle time each day? How many jobs are ahead of the average just brought in?	with f the s the e set
	10.a) A fair die is tossed repeatedly. If X_n denotes the maximum of the number occurring in first in tosses, find the transition probability matrix P of the Markov chair $\{X_n\}$. Find P^2 and $P(X_2 = 6)$.	LAISO
	Is this matrix irreducible? [5	0.8J +5]
1	Three boys A, B, C are throwing a ball to each other B always throws the ball to always throws the ball to A; but A is just a likely to throw the ball to C as to B. Show the process is Markovian. Find the transition matrix and classify the states. Do a states are ergodic?	n the