

# Model Question Paper-1 with effect from 2019-20 (CBCS Scheme)

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## Fourth Semester B.E. Degree Examination Engineering Statistics & Linear Algebra

TIME: 03 Hours

Max. Marks: 100

- Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.  
02. Use of Normalized Gaussian Random Variables table is permitted.

Module -1			"Bloom's Taxonomy Level	Marks																		
Q.01	a	<p>The PDF for the random variable Z is</p> $f_Z(z) = \begin{cases} \frac{1}{6\sqrt{z}} & ; \quad 0 < z < 9 \\ 0 & ; \quad \text{Otherwise} \end{cases}$ <p>What are (i) the mean (ii) the mean of the square, and (iii) the variance of the random variable Z?</p>	L1, L2	5																		
	b	<p>Given the data in the following table,</p> <table><tr><td>k</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td><math>x_k</math></td><td>2.1</td><td>3.2</td><td>4.8</td><td>5.4</td><td>6.9</td></tr><tr><td><math>P(x_k)</math></td><td>0.21</td><td>0.18</td><td>0.20</td><td>0.22</td><td>0.19</td></tr></table> <p>(i) Plot the PDF and the CDF of the discrete random variable X. (ii) Write expressions for PDF and CDF using unit-delta functions and unit – step functions.</p>	k	1	2	3	4	5	$x_k$	2.1	3.2	4.8	5.4	6.9	$P(x_k)$	0.21	0.18	0.20	0.22	0.19	L3	5
k	1	2	3	4	5																	
$x_k$	2.1	3.2	4.8	5.4	6.9																	
$P(x_k)$	0.21	0.18	0.20	0.22	0.19																	
	c	Define an exponential random variable. Obtain the characteristic function of an exponential random variable and using the characteristic function derive its mean and variance.	L1, L3	10																		
OR																						
Q.02	a	<p>It is given that <math>E[X] = 36.5</math> and that <math>E[X^2] = 1432.3</math></p> <p>(i) Find the standard deviation of X. (ii) If <math>Y = 4X - 500</math>, find the mean and variance of Y.</p>	L3	4																		
	b	Define a Poisson random variable. Obtain the characteristic function of a Poisson random variable and hence find mean and variance using the characteristic function.	L1, L3	10																		
	c	The random variable X is uniformly distributed between 0 and 4. The random variable Y is obtained from X using $y = (x - 2)^2$ . What are the CDF and PDF for Y?	L2, L3	6																		
Module-2																						
Q. 03	a	<p>The joint PDF <math>f_{XY}(x, y) = c</math>, a constant, when <math>(0 &lt; x &lt; 3)</math> and <math>(0 &lt; y &lt; 4)</math> and is 0 otherwise.</p> <p>(i) What is the value of the constant c? (ii) What are the PDFs for X and Y? (iii) What is <math>F_{XY}(x, y)</math> when <math>(0 &lt; x &lt; 3)</math> and <math>(0 &lt; y &lt; 4)</math>? (iv) What are <math>F_{XY}(x, \infty)</math> and <math>F_{XY}(\infty, y)</math>? (v) Are X and Y independent?</p>	L1, L2, L3	10																		
	b	Define correlation coefficient of random variables X and Y. Show that it is bounded by limits $\pm 1$ .	L1, L2	5																		

# Vtu Engineering Mathematics Question Papers

**H K Dass, Rajnish Verma & Rama  
Verma**



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**dressage wikipedia** - Jun 23 2022

web may 31 2020 the 2020 edition of the dutch dressage championships has returned on the calendar due to corona the dutch national championships were cancelled on 28 31

**yearly calendar equestrian south australia** - Apr 21 2022

web dnsw event calendar dnsw is trialling a combined calendar of oc cr cu and members training protocol days any feedback will be appreciated closed events

**equestrian at the 2020 summer olympics individual dressage** - Jun 04 2023

the individual dressage event at the 2020 summer olympics took place from 24 to 28 july 2021 at the haji koen like all other equestrian events the dressage competition is open gender with both male and female athletes competing in the same division 60 riders from 30 nations are expected to compete

**tokyo olympics equestrian eventing dressage and jumping** - Jul 05 2023

web jul 29 2021 when is the tokyo olympics eventing dressage and jumping here s the start times for the upcoming equestrian events to make sure you don t miss the action

**amazon com dressage calendar** - Dec 30 2022

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[dressage para dressage fei org](#) - Aug 06 2023

web the olympic channel with its popularity rapidly growing each year dressage is the ultimate expression of horse training and elegance often compared to ballet the intense

[fei dressage calendar shows new cdi dates and covid additions](#) - Apr 02 2023

web apr 30 2020 the fei dressage calendar task force held its second meeting on 28 april 2020 to review applications



received for higher level events and approve several cdi s

**2020 dressage competition handbook equestrian** - Sep 26 2022

web 2020 dressage nsw official event calendar ch championship oc official competitive op official participant yh young horse  
rdf regional dressage festival fs freestyle

**dressage 2020 calendar help environment harvard edu** - Dec 18 2021

web british dressage major dates 2024 updated 25 09 23 subject to change summer season winter season january 2024 30  
june 2024 july 2024 31 december 2024

**p s i dressage and show jumping with the stars back on the** - May 03 2023

web jun 15 2020 the 2020 p s i dressage and jumping with the stars is back on the calendar for 2020 after having been  
cancelled due to covid 19 the international classes

**2020 dutch dressage championships return on the calendar** - May 23 2022

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jumping calendar dressage 2020 dressage calendar

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young horse f freestyle

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web we manage to pay for dressage 2020 calendar and numerous book collections from fictions to scientific research in any  
way in the course of them is this dressage 2020

**equestrian at the 2020 summer olympics wikipedia** - Mar 01 2023

web individual dressage dressage grand prix day 1 team dressage day 2 sunday 25 july 2021 17 00 22 00 individual dressage  
dressage grand prix day 2 team dressage

**dressage calendar 2024 2025 three years calendar uk** - Feb 17 2022

web 4 75 31 7 day extraordinary horse riding holiday in malaga andalucia airport transfer available 1 person 7 days available  
all year from us 1 323 spain 4 45 8 8 day

*home dressage today* - Nov 28 2022

web competitions calendar dressage competition is the test of training not only do you compete against other combinations in  
the class there is the opportunity to compete

**2020 dressage calendar equestrian new south wales** - Jul 25 2022

web dressage ' d r e s a : 3 or d r i ' s a : 3 a french term most commonly translated to mean training is a form of horse riding

performed in exhibition and competition as well

*dressage main events fei* - Oct 08 2023

web welcome to fei dressage main events which represent the most important sporting get togethers of each year categorised into series championships and games they range

**competitions calendar esnz** - Oct 28 2022

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web apr 17 2020 the dressage calendar task force one of the eight discipline specific task forces created by the fei to evaluate the impact of the covid 19 pandemic on the fei