

**Model Question Paper-I (CBCS Scheme)**

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**Third Semester B.E Degree Examination**

**MATHEMATICS FOR CS ENGINEERING STREAM (BCS301)**

**TIME: 03 Hours**

**Max.Marks:100**

Note: (i) Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.  
 (ii) Statistical tables and Mathematics Formula handbooks are allowed.

<b>Module -I</b>			<b>M</b>	<b>L</b>	<b>C</b>
Q.01	a	A shipment of 8 similar microcomputers to a retail outlet contains 3 that are defective. If a school makes a random purchase of 2 of these computers, find the probability distribution for the number of defectives. Find the mean and variance of this distribution.	6	L2	CO1
	b	In a factory producing blades, the probability of any blade being defective is 0.002. If blades are supplied in packets of 10, Using Poisson distribution determine the number of packets containing i. No defective ii. One defective and iii. Two defective blades respectively in a consignment of 10000 packets	7	L2	CO1
	c	If the mileage (in thousands of miles) of a certain radial tyre is a random variable with exponential distribution with mean 40,000 miles. Determine the probability that the tyre will last i. At least 20,000 km ii. At most 30,000 km	7	L3	CO1
<b>OR</b>					
Q.02	a	The density function of a random variable X is given by $f(x) = \begin{cases} k\sqrt{x}, & 0 < x < 1, \\ 0, & \text{elsewhere} \end{cases}$ i. Find k ii. Find the cdf F(x) and use it to evaluate $P[0.3 < X < 0.6]$	6	L2	CO1
	b	Find the mean and variance of Binomial distribution.	7	L2	CO1

# 3 Rd Sem Mathematics Civil Engineering

**L Manion**



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web trimyristin in the major triglyceride found in nutmeg representing 20 25 of the dried weight of ground nutmeg to extract the trimyristin we performed a solid liquid extraction using the organic solvent methylene chloride  $\text{CH}_2\text{Cl}_2$

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which will be hydrolyzed and undergo esterification

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web read standard reflux on page 201 of the organic chem lab survival manual prelab question 1 trimyristin is a triglyceride what are triglycerides prelab question 2 how do microwaves heat microwave procedure add approximately 2.5 g of ground nutmeg record exact mass and 15 ml of diethyl ether to microwave vessel

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web hatice kocataş bursa uludağ university faculty of arts and sciences department of chemistry 16059 bursa turkey abstract in the present work a surfactant assisted convenient extraction method was developed for the isolation of trimyristin from nutmeg

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web aug 4 2008 the purpose of this experiment was extract isolate and purify the natural product trimyristin from the spice nutmeg the trimyristin was extracted by using the solvent diethyl ether and

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web trimyristin is found in the fixed oil of nutmeg the fixed oil comprises approximately 24 40 of the nutmeg seed trimyristin comprises 73 of the fixed oil overall trimyristin should have percent recovery of 18 29 1 figure 1 shows how trimyristin is triester formed from the dehydration reaction between glycerol and myristic acid oh

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web purpose the purpose of this lab is to extract trimyristin from nutmeg as well as synthesizing myristic acid from the extracted trimyristin using base hydrolysis and naoh acidification using hcl is necessary to characterize the product by finding the melting point

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web in this lab trimyristin is extracted from ground nutmeg occurring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

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web the desired components of solids are dissolved in a solvent then the remaining solid is filtered so that the selected element and solvent are left over in this lab the trimyristin was dissolved into the solvent and the remainder of the nutmeg was filtered out

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web may 1 2011 experiment 3 1 february 2010 grade a small scale extraction of trimyristin from nutmeg introduction the purpose of this experiment is to collect trimyristin from an amount of nutmeg provided trimyristin is a type of triglyceride containing the fatty acid myristic acid also known as tetradecanoic acid

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