

Name.....

Roll No.....

J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD

Second Sessional examination (Dec. 2024)

Prog. Name: B.tech. (ME)

Semester: III

Course code: BSC-201

Max.Time: 90 minutes

Course Title: Mathematics-III

Max. Marks: 15

Note: All questions are compulsory

Q1: Six coins are tossed 6400 times. Using Poisson distribution, determine the approximate probability of getting six heads x times. (3)

Q2: In a normal distribution, 31% of the items are under 45 and 8% are over 64. Find the mean and standard deviation of the distribution. (Table value for 0.19=0.5 & for 0.42=1.4) (5)

Q3: A random sample of 900 members has a mean 3.4 cms. Can it be reasonably regarded as a sample from a large population of mean 3.2 cms and S.D. 2.3 cms? (4)

Q4: Explain Chi square test. (3)