

**DEPARTMENT OF COMPUTER SCIENCE**

**SIMULATION**

**SUBMITTED BY:**

{name}

{roll}

5th Semester - Section {section}

**SUBMITTED TO:**

Department of Computer Science

St. Xavier’s College

Maitighar, Kathmandu

ST. XAVIER’S COLLEGE

MAITIGHAR, KATHMANDU

SIMULATION  
PRACTICAL INDEX SHEET

**B.Sc. CSIT 5th Semester**

T.U. Regd. No.:………………………………… Class Roll No.:.…...................

Name of Student:……………………………….. Year/Sem.:...............………...

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Title of the Experiment** | **Submission Date** | **Signature** | **Remarks** |
| 1 | TO DETERMINE THE VALUE OF PI USING MONTE CARLO SIMULATION |  |  |  |
| 2 | TO DETERMINE THE AREA UNDER THE CURVE Y = X^2 OVER THE INTERVAL (1 TO 4) |  |  |  |
| 3 | O DETERMINE THE AREA UNDER THE CURVE X = Y^2 OVER THE INTERVAL (1 TO 4) |  |  |  |
| 4 | TO MODEL AN M / M / 1 QUEUING SYSTEM WHERE Λ = 5 AND M = 6 AND USING SIMULATION |  |  |  |
| 5 | TO PREDICT THE WEATHER OF A PARTICULAR DAY I.E.: AFTER 2 DAYS, AFTER 3 DAYS UP TO 20 DAYS |  |  |  |
| 6 | TO IMPLEMENT GAME OF DICE THAT GENERATE DISCRETE RANDOM VARIABLES USING RAND FUNCTION USING C/C++ PROGRAM. |  |  |  |
| 7 | TO IMPLEMENT LINEAR CONGRUENTIAL METHOD FOR GENERATING PSEUDO RANDOM NUMBER USING C/C++ PROGRAM. |  |  |  |
| 8 | TO IMPLEMENT RANDOM WALK MODEL WITH AND WITHOUT DRIFT VALUE |  |  |  |
| 9 | MANUFACTURING SHOP MODEL - 1 |  |  |  |
| 10 | MANUFACTURING SHOP MODEL - 2 |  |  |  |
| 11 | MANUFACTURING SHOP MODEL - 3 |  |  |  |
| 12 | MANUFACTURING SHOP MODEL - 4 |  |  |  |
| 13 | MANUFACTURING SHOP MODEL - 5 |  |  |  |