

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam - 2074, Falgun / Chaitra

www.rjankc.com.np

Program: Diploma in Information Technology /
Computer Engineering

Full Marks: 80

Year/Part: III/I

Pass Marks: 32

Subject: **Elective - I (Computer Simulation & Modeling)**

Time: 3 hrs

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicates full marks.*

Attempt (Any Eight) Questions.

1. What is queuing model? How it is useful for simulation? [10]
2. Discuss about a simulation of a manufacturing shop. [10]
3. What is simulation? List few advantages and disadvantages of simulation. [10]
4. Define dynamic physical model. Illustrate dynamic physical model with suitable example. [3+7]
5. Discuss about the numerical computation techniques for continuous and discrete models. [10]
6. What is General Purpose System Simulation? Explain various General Purpose System Simulation blocks. [3+7]
7. What are test for random number? Explain Gap test with suitable algorithm. [2+8]
8. Explain the detail about distributed lag model. [10]
9. Write short note on: (**Any Two**)
 - a] Properties of Random number
 - b] Stochastic system
 - c] Digital-Analog simulator

Good Luck!

For Educational Materials

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