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SUBJECT CODE NO:- H-1641
FACULTY OF SCIENCE AND TECHNOLOGY
M.E. (CSE/SE)
Performance Analysis & Simulation
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i. Solve any two questions from each section.
 - ii. Assume suitable data wherever necessary and state it clearly.

Section A

- | | | |
|-----|---|----|
| Q.1 | a) Explain common mistakes in performance analysis and how to avoid them? | 10 |
| | b) Explain Markov models in detail. | 10 |
| Q.2 | a) Explain single parameter and multi parameter histograms in detail. | 10 |
| | b) Explain evaluation technique and performance metrics and how to select it? | 10 |
| Q.3 | a) Compare software and hardware monitors. Explain the issues in software monitor design. | 10 |
| | b) Evaluate two operating systems such as Linux and windows based on system architecture and workloads. | 10 |

Section B

- | | | |
|-----|---|----|
| Q.4 | a) Explain steps involved in a simulation study. | 10 |
| | b) List and explain the circumstances under which simulation is the appropriate tool and when simulation is not appropriate tool. | 10 |
| Q.5 | a) What is the test for uniformity? And test for independence? | 10 |
| | b) Explain techniques of generating random numbers. | 10 |
| Q.6 | a) Explain calibration and validation of models. | 10 |
| | b) Explain validating input-output transformation. | 10 |