[Total No. of Printed Pages : 1

Roll No .....

## **MCSE-204**

## M.E./M.Tech., II SemesterExamination, June 2020 System Programming *Time : Three Hours*

Maximum Marks : 70

*Note:* i) Attempt any five questions.

ii) All questions carry equal marks.

- 1. a) Give the brief overview of language processors? Give example and features of each.
  - b) Draw flowchart for instruction fetch and execution of general machine structure.
- 2. a) Explain the structure of macro definition table and Argument List Array (ALA) with the help of example.
  - b) Discuss briefly the steps involved in designing an Single Pass assembler.
- 3. a) Explain with example concepts of relocating and linking.
  - b) Elaborate the analysis and synthesis phases of compiler. Clearly mention the working of each phase. Give one example in support.
- 4. a) How many techniques are available for dynamic storage? Briefly explain each of them.
  - b) Explain concurrentisation & vectorisation of programs.
- 5. a) Differentiate between boy carried and loop independent dependences? Give example.
  - b) Explain briefly;
    - i) Dynamic compilation
    - ii) Data partitioning
- 6. a) Explain unified algorithm for data flow analyse.
  - b) Describe important design issues in distributed operating system.
- 7. a) Explain structure of multiprocessor operating system with suitable example.
  - b) Describe about advanced models of protection.
- 8. a) Discuss about Access Matrix Model.
  - b) Write short notes:
    - i) Amoeba
    - ii) Distributed scheduling

\*\*\*\*\*

MCSE-204

## Download all NOTES and PAPERS at StudentSuvidha.com