

B.Tech. SEM -IV (Computer) 2014 Course (CBCS) : SUMMER - 2019
SUBJECT-SYSTEMS PROGRAMMING

Day: Tuesday
Date: 28/05/2019

S-2019-2604

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

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- Q.1** Describe in detail the data structures used in Two Pass Assembler. (10)
OR
Define System software. Describe components of System software. (10)
- Q.2** Define Macro. Illustrate the process of Macro expansion for a Macro call without arguments and Macro call with arguments. (10)
OR
Explain the following terms with respect to Macro (10)
i) MNT ii) MDT iii) ALA iv) MNTC v) MDTC
- Q.3** Explain the design issues of Direct linking loader along with details of various data structures used. (10)
OR
Compare the following: (10)
i) Relocating loader and Direct linking loader
ii) Static binding and Dynamic binding.
- Q.4** Define Compiler. Explain various databases used in Lexical phase of a compiler. (10)
OR
Compare Top down parsing and Bottom up parsing. Explain their usability with suitable example. (10)
- Q.5** Define system calls. List and explain any four systems call with their syntax. (10)
OR
Describe in detail UNIX file system permissions. (10)
- Q.6** Define Device drivers. Describe device programming in detail. (10)
OR
Describe steps involved in installation of Line printer. (10)

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