

B.TECH. SEM -IV (COMPUTER) 2014 COURSE (CBCS) :
SUMMER - 2018
SUBJECT : SYSTEMS PROGRAMMING

Day : **Thursday** Time : **10.00 AM TO 01.00 PM**
Date : **07/06/2018** Max. Marks : 60
S-2018-2283

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

Q.1 Define system software. Describe various components of system software. [10]

OR

Draw a neat diagram and explain structure and working of a language processor. [10]

Q.2 Illustrate with suitable example working of a two pass macro processor. [10]

OR

a) Define MACRO. Explain various features of MACRO facility. [05]

b) Distinguish between a Function and a MACRO. [05]

Q.3 Describe in detail complete design of a Relocating Loader and list its advantages and disadvantages. [10]

OR

Distinguish between: [10]

- i) Compile & Go loader and Absolute loader
- ii) Static Linking and Dynamic Linking

Q.4 Draw a neat diagram and explain various phases of compiler. [10]

OR

Define code optimization. List and explain various types of optimization. [10]

Q.5 Define operating system. Explain various components of operating system. [10]

OR

Define Shell. Explain different types of shell. [10]

Q.6 Define device drivers. List and explain different types of device drivers. [10]

OR

Explain in detail the steps involved in the process of device driver initialization. [10]

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