B.Tech. SEM -IV (Computer) 2014 Course (CBCS) : WINTER - 2018
SUBJECT-SYSTEMS PROGRAMMING

Day: Thursday
Date: 15/11/2018

W-2018-2339

Time: 02.30 PM TO 05.30 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.

Q.1   List and Explain the language processing activities in detail.   **(10)**
OR
Draw a flowchart and Write an algorithm for Pass-I of a two pass   **(10)**
Assembler. Also describe the databases used in Pass-I.

Q.2   Define Macro Illustrate the process of Macro expansion with example. List   **(10)**
features of Macro facility.
OR
a) Distinguish between Macro call and the Function call.   **(05)**
b) Explain the use of Stack in Nested macro call.   **(05)**

Q.3   Define Loader .Explain various functions of Loader in detail.   **(10)**
OR
a) Distinguish between Compile and Go loader and Relocating loader.   **(05)**
b) List advantages and disadvantages of binding at load time over binding at   **(05)**
assembly time.

Q.4   Draw a neat diagram and Explain structure of Compiler.   **(10)**
OR
Explain the term Parsing. Explain LR parser in detail.   **(10)**

Q.5   Define Operating system. Explain different components of Operating   **(10)**
systems.
OR
Explain in detail features of UNIX file system.   **(10)**

Q.6   Describe steps involved in installation of line printer.   **(10)**
OR
Define Device drivers. Describe its different types.   **(10)**

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