

B.Tech. SEM -V Info. Tech. 2014 Course (CBCS) : WINTER - 2018

SUBJECT: SYSTEM PROGRAMMING

Day: Tuesday
Date: 27/11/2018

W-2018-2414

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 and labeled diagrams **WHEREVER** necessary.
-

Q.1 What is an operating system? What are the functions and facilities of an operating system from user view point? **(10)**

OR

Q.1 Define language processing. State and explain the components of source language specification. **(10)**

Q.2 Explain the IBM 360 machine structure in detail. **(10)**

OR

Q.2 List the various address modification techniques used in machine language? Explain any one technique in detail. **(10)**

Q.3 Define an assembler. List and explain the general design procedure of an assembler. **(10)**

OR

Q.3 Why are searching techniques needed in assemblers? Explain in detail any one searching technique used by assembler. **(10)**

Q.4 What is macro expansion? Describe and explain the process of macro expansion with an example. **(10)**

OR

Q.4 State and explain the data structures used for implementing macro processor with their format and example. **(10)**

Q.5 Define linker and loader. Differentiate between static linking and dynamic linking. **(10)**

OR

Q.5 State and explain the functions performed by a loader. **(10)**

Q.6 State the tasks of lexical phase of compiler. Explain the data structures used in the lexical phase. **(10)**

OR

Q.6 Enlist and explain the generic phases in general model of compiler. **(10)**

* * * * *