

B.Tech Sem – V (2007 Course) (Computer Engg.) : SUMMER - 2019

SUBJECT : SYSTEM PROGRAMMING

Day : Thursday
Date : 09/05/2019

S-2019-3062

Time : 10.00 AM TO 01.00 PM
Max. Marks : 80

N. B. :

- 1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
 - 2) Answers to both the sections should be written in **SEPARATE** answer books.
 - 3) Use of non-programmable **CALCULATOR** is allowed.
 - 4) Figures to the right indicate **FULL** marks.
 - 5) Assume suitable data if necessary.
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SECTION – I

- Q1** a) Define System Software. Describe it's various components. [05]
b) Define Assembler. Describe in brief problems in developing assembler in a single pass. [05]
c) Describe in brief Direct linking loader. [04]
- Q2** a) Explain in details pass structure of a language processor. [07]
b) Describe in detail program execution activities. [06]
- Q3** Explain in detail databases required for Two-Pass Assembler. [13]
- Q4** Describe in detail complete design of an Absolute loader. [13]

SECTION – II

- Q5** a) Distinguish between Top-down parsing and Bottom-up parsing. [05]
b) Explain in brief features of Line editor. [05]
c) Distinguish between a program and a process. [04]
- Q6** Draw a neat diagram and describe phases of Compiler. [13]
- Q7** a) Explain the concept of Text editor. List it's advantages and disadvantages. [07]
b) Describe in detail Screen editor. [06]
- Q8** a) Define Operating system. Describe services provided by operating system. [07]
b) Explain in detail Batch processing system. [06]

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