

Code :R5321503

**R5****III B.Tech II Semester(R05) Supplementary Examinations, April/May 2011  
SYSTEMS PROGRAMMING****(Computer Science & Systems Engineering)****Time: 3 hours****Max Marks: 80****Answer any FIVE questions  
All questions carry equal marks**

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1. (a) What is a reserved word in assembly language? Give two examples.  
(b) Explain the purpose of a procedure. How do you define the beginning and end of a Procedure? When do you define a procedure as FAR? When do you define a procedure as NEAR?  
(c) Distinguish between the statement that ends an assembly and the statements that end execution.
2. (a) Define loop instruction. Briefly explain loop instruction with example?  
(b) Define the flag register. Briefly explain all the flag bits.
3. Write an Assembly Language program to check whether the following Strings named with S1='hibernation', S2='hibernations' are equal or not.
4. Explain the following directives
  - (a) PURGE Directive
  - (b) REPT Directive
  - (c) EXITM Directive
  - (d) IFIDN directive.
5. (a) Where is the BIOS memory location of the key board buffer? Explain.  
(b) How many keyboard characters can it contain? Justify your answer.  
(c) What is the buffer size, in bytes? Explain.
6. (a) Explain the procedure for creating FAT for a disk Using DEBUG for 3.5" diskettes with 720K and 1.44MB Capacity blank disks.  
(b) Explain briefly about File Handlers.
7. Explain briefly any eight BIOS Diskette functions.
8. Briefly explain the design procedure of a absolute loader.

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