R7

Code: R7 311504

B.Tech III Year I Semester (R07) Supplementary Examinations, May 2012
SYSTEMS PROGRAMMING
(Computer Science and Systems Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE questions
All questions carry equal marks
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1 (a)   Show the EAX register and the size and position of AH, AL and AX within it.
   (b)   Give the purpose of each the following DEBUG commands.
         (i).A (ii).D (iii).E (iv).P (v).Q

2 (a)   Describe various conditional jump instructions with examples.
   (b)   What is the difference between shifting and rotating operations? Give examples.

3 (a)   Explain SCAN string instruction with an example.
   (b)   Describe the usage of type, length and length operators provided by the assembler in processing the table.

4 (a)   Explain the implementation of macro calls within macros with an example.
   (b)   Differentiate between IFNDEF and IFIDN conditions in macros.

5   Discuss BIOS interrupt 16H for keyboard input at length.

6 (a)   What is FCB? Describe the contents of FCB.
   (b)   Explain the circumstances where you close a file used only for input.

7   Explain the following:
   (a)   DOS memory management.
   (b)   Program overlays.

8   Write about various data structures used in assembler design.

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