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Total No. of Questions: 18

B.Tech.(CSE/IT) (2011 onwards) (Sem.-4)
SYSTEM PROGRAMMING
Subject Code: BTCS-405
Paper ID: [A1187]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- 1. Define the term system programs. List any four system programs.
- 2. Explain in brief about OPTAB.
- 3. Write the advantages of two pass assembler over one pass assembler.
- 4. Explain the term macros in brief.
- 5. Explain in brief about code generation phase of compiler.
- 6. Explain the concept of linking in brief.
- 7. Explain in brief about DOS Editor.
- 8. What is code optimization?
- 9. Explain the role of Loaders.
- 10. What is the need of Debuggers? Explain.

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SECTION-B

- 11. Explain in brief about following:
 - a) Linkers
 - b) Assemblers
- 12. Explain the concept of recursive macro expansion with an example.
- 13. Write a detailed note on the lexical Phase of compiler.
- 14. Explain in detail about Line editor.
- 15. Describe in brief about various debugging techniques.

SECTION-C

- 16. Write a detailed note on Single Pass assembler.
- 17. Explain in detail about various loading schemes:
- 18. Write a detailed note on full screen editor.

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