Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 18

B.Tech.(CSE/IT) (2011 onwards) (Sem.–4)
SYSTEM PROGRAMMING
Subject Code : BTCS-405
M.Code : 56608

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :
1. **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. List the different phases of the compiler.

2. What are the advantages of the Macro?

3. Define MDT and MNT.

4. What is the difference between Compiler and Assembler?

5. Define Semantic analysis.

6. What is constant folding?

7. What is lexeme?

8. Define the term device driver.

9. What is difference between application and system software?

10. What are the limitations of the absolute loader?

SECTION-B

11. Write a note on intermediate code generation in compiler.

12. What is linker? Explain the different linking scheme.

13. Explain the use of data structures in the assembler.

14. Differentiate between screen editor and word processor.

15. What is loader? Explain the working of the absolute loader.

SECTION-C

16. Explain the two-pass assembler in detail with block diagram.

17. What is Macro? Why do we use macro? Explain the macro expansion with assembly code.

18. What is Debugger? Explain the various debugging techniques in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.