Visit **www.brpaper.com** for downloading previous years question papers of 10th and 12th (PSEB and CBSE), B-Tech, Diploma, BBA, BCA, MBA, MCA, M-Tech, PGDCA, B-Com, BSC-IT, MSC-IT.

| Roll No. |  | Total No. of Pages: 02 |
|----------|--|------------------------|
| •        |  |                        |

Total No. of Questions: 09

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**

# 1. Write briefly:

- (a) Name the techniques used for debugging.
- (b) Define system programming.
- (c) What is the disadvantage of Multipass assembler?
- (d) Define a subroutine.
- (e) What do you mean by semantic analysis?
- (f) Why we do code optimization?
- (g) What is the input and output of a LEX?
- (h) What is the purpose of using linker?
- (i) Name any five text editors.
- (j) What is the use of Format Painter in MS-Word?

1 | M Code 56608 (S2)-500

Visit **www.brpaper.com** for downloading previous years question papers of 10th and 12th (PSEB and CBSE), B-Tech, Diploma, BBA, BCA, MBA, MCA, M-Tech, PGDCA, B-Com, BSC-IT, MSC-IT.

## **SECTION-B**

- 2. What are various debugging techniques?
- 3. Differentiate between linker and loader.
- 4. Which of the phase in compiler design can be eliminated? What are the effects of eliminated this phase?
- 5. What are macro instruction arguments? Explain.
- 6. What data structures are required in pass I of an assembler? Describe in brief.

## **SECTION-C**

- 7. Write a short program to demonstrate the use of YACC. Write complete procedure to write, compile and execute your YACC program. (Assume all required software's are available to you).
- 8. What is an editor? Name different editors available. Explain five different commands of vi-editor with examples.
- 9. Write short notes on:
  - a. System programming
  - b. Conditional macro expansions

2 | M Code 56608 (S2)-500