

Register Number :

Name of the Candidate :

**6 9 1 4**

**M.C.A. DEGREE EXAMINATION, 2009**

( FIRST SEMESTER )

( PAPER - IV )

**141. UNIX, C AND C ++**

( *New Regulations* )

December ]

[ Time : 3 Hours

Maximum : 100 Marks

**SECTION - A** (8 ×5 = 40)

*Answer any EIGHT questions.*

*All questions carry equal marks.*

1. Discuss UNIX fundamentals.
2. List the programming maintenance tools.
3. Write the syntax of switch statement and explain it.

**Turn Over**

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4. Explain in detail the break and continue statement.
5. Write a program to print the market sheet of 'n' students using structure.
6. What is the difference between pre-tested and post-tested loops ?
7. Briefly discuss the dynamic memory allocation.
8. Write note on over loading and over-riding.
9. Explain in detail the command line arguments.
10. Give an introduction to operation systems in detail.

**SECTION - B** (3 × 20 = 60)

*Answer any THREE questions.*

*All questions carry equal marks.*

11. (a) Explain in detail about shell meta characters. (10)
- (b) Discuss program development tools. (10)

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12. Write a program to print triangle of numbers. (20)
13. (a) Write a program to print to access the string using a pointer variable. (10)
- (b) Write a program to print employee details using union. (10)
14. (a) What is the main drawback of structured program ? How does OOP address this issue ? (10)
- (b) Explain in detail operator overloading. Give example. (10)
15. (a) Explain the different types of inheritance with an example diagrammatically. (10)
- (b) Explain the following :
  - (i) VI editor. (5)
  - (ii) Shell programming. (5)