

67042

**MCA 1st Semester w.e.f. Dec.
2012 with new notes full and re-
appear candidates Examination-
December, 2013**

**Computer Fundamentals and Prog. C
Paper MCA-102**

Time : 3 hours

Max. Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Question No. 1 is compulsory. Attempt **four** more questions selecting **one** from each Unit.

1. Answer the following questions briefly :

(a) Define system software and write its two uses. 2

(b) Write use of computers in remote sensing. 2

- (c) Describe two advantages of C pre-processor. 2
- (d) Discuss pointer operators with examples. 2
- (e) Explain nesting of structures with C code segment. 2
- (f) Write one use of union with C code segment. 2
- (g) Explain advantages of lesser number of keywords in C. 2
- (h) Discuss array of pointer with C code. 2

UNIT - I

2. (a) What is operating system ? How is it useful and used ? Discuss with examples. 8
- (b) Discuss uses and advantages of loaders and linkers with examples. 8
3. Explain the following briefly with suitable examples :
- (i) Computer crimes and their solutions. 8

- (ii) Programming languages classification and their relative merits.

8

UNIT - II

4. (a) What are bit-wise operators ? How are these useful and used ? Explain with examples. 8
- (b) Discuss uses and advantages of switch, break and continue statements with suitable C code segments. 8
5. Describe the following with examples :
- (a) Differentiate between decision tables and Pseudo codes. 8
- (b) Use of nested for loops with C codes. 8

UNIT - III

6. (a) What is dynamic memory allocation ? How is it used and useful ? Explain with suitable C codes. 8
- (b) Discuss function returning pointers with C code segment. 8

7. Explain the following with examples :

(i) Storage classes with C code segments. 8

(ii) Uses of recursion with C codes examples. 8

UNIT - IV

8. (a) What is modes of files ? How are these used and useful ? Discuss with C codes.

10

(b) Explain commandline arguments with suitable examples and C codes. 8

9. Explain the following with examples :

(i) Five file handling functions with C codes. 8

(ii) Passing structure to a function with C code. 8