Roll No. .....

67007

MCA 1st Semester (Current)
CBCS Scheme w.e.f. 2016-17
Examination – December, 2018

COMPUTER FUNDAMENTAL & PROGRAMMING IN C

Paper : 16MCA-31C2

Time : Three Hours] *[Maximum 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 examination.

Note : Attempt ***five*** questions in all. Question No. 1 is ***compulsory***. In addition to compulsory question, attempt ***four*** more questions selecting ***one*** question from each Unit.

1. Answer the following questions briefly : 2 × 8 = 16

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

(b) Write use of computers in remote sensing.

(c) Describe two advantages of C pre-processor.

(d) Discuss pointer operators with examples.

(e) Explain nesting of structures with C code segment.

(f) Write one use of union with C code segment.

(g) Explain advantages of lesser number of keywords in C.

(h) Discuss array of pointer with C code.

UNIT – I

2. (a) What is operating system? How is it useful and used ? Discuss its functions with examples. 8

(b) Discuss uses and advantages of loaders, linkers, 4GL languages with examples. 8

3. Explain the following briefly with suitable examples :

(i) Computer crimes and their solutions.

(ii) Programming languages classification and their relative merits 8 each

UNIT – II

4. (a) What are bit-wise operators ? How these are 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 : 16

(a) Differentiate between decision tables and Pseudo codes

(b) Use of nested for loops with C codes

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 : 8 each

(i) Storage classes with C code segments

(ii) Uses of recursion with C codes examples

UNIT – IV

8. (a) What is modes of files ? How these are used and useful ? Discuss with C codes. 10

(b) Explain command line arguments with suitable examples and C codes. 6

9. Explain the following with examples : 16

(i) Five file handling functions with C codes

(ii) Passing structure to a function with C code