

Roll No. ....

**67042**

**M.C.A. Ist Sem. w.e.f. Dec. 2011 (New)**

**Examination – December, 2012**

**COMPUTER FUNDAMENTALS & PROG. C**

**Paper : MCA-102**

*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 complain in this regard, will be entertained after examination.*

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

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

- (a) Define compiler and write its two uses.
- (b) Write use of computers in weather forecasting.
- (c) Describe two advantages of decision tables.
- (d) Write use of pointer operators with examples.
- (e) Explain nesting of loops with C code segment.
- (f) Write one advantage of union with C code segment.

67042-1,350-(P-3)(Q-9)(12)

P. T. O.

- (g) Explain advantages of macros in C.
- (h) Discuss advantages of conditional operator with C code.

### UNIT – I

- 2. (a) What are input devices? How these are useful and used? Discuss one input device in detail with an example. 8
- (b) Discuss uses and advantages of interpreter, loaders and linkers with examples. 8
- 3. Explain the following briefly with suitable examples : 8 each
  - (i) Computer viruses and their solutions.
  - (ii) Programming languages generations and their relative merits

### UNIT – II

- 4. (a) What are control statements? How these are useful and used? Explain with C codes examples. 10
- (b) Explain advantages of switch, break and continue statements with suitable C code segments. 6
- 5. Describe the following with examples : 16
  - (a) Differentiate between decision tables and flow charts.
  - (b) Use of bit-wise operators with C codes.

67042-1,350-(P-3)(Q-9)(12) ( 2 )

### UNIT – III

6. (a) What is function? How is it used and useful ?  
Explain with suitable C codes. 8
- (b) Discuss advantages of storage classes with C code segments. 8
7. Explain the following with examples : 8 each
- (i) Pointer to structure and pointer to functions with C code segments
- (ii) Recursion and its advantages with C codes.

### UNIT – IV

8. (a) What are files? How these are used and useful ?  
Discuss with C codes. 10
- (b) Explain array of structure with suitable examples and C codes. 6
9. Explain the following with examples: 16
- (i) Modes of files with C codes
- (ii) Nesting of structures and Passing structure to a function with C code