(01/13-II)

2202

P.G.D.C.A./M.C.A./M. Sc. (Comp. Sc.) (First Year) EXAMINATION

(New Scheme)

PROBLEM SOLVING THROUGH C PGDCA-III/MSc-DE-12/MCA-DE-12

Time: Three Hours Maximum Marks: 70

Note: Attempt any Five questions. All questions carry equal marks.

- 1. (a) What is structured programming? How is it useful and used in C? Discuss with examples.
 - (b) Discuss uses and advantages of top down programming with examples.7

(2-76) 2202 P.T.O.

http://www.cdluonline.com

- 2. Explain the following briefly with suitable examples: 7 each
 - (i) Bit-wise operators in C and their uses
 - (ii) Flow charting and its advantages.
- (a) What are decision making structures?
 How are these useful and used in C?
 Explain with examples.
 - (b) Develop an algorithm for bubble sort technique.7
- 4. Describe the following with examples in C: 7 each
 - (i) String and character handling functions in C
 - (ii) Data types in C.
- List various kinds of operators in C and explain unary, logical, short hand assignment and conditional operators in detail with suitable examples in C and their hierarchy.
- 6. What are structure and union? How are these useful and used in C? Discuss in detail how arrays and pointers are used in structures with C code segments.

- Define data files. How are these useful and used in C? Also discuss their advantages and ten file handling functions in C with C code segments.
- 8. Define user defined functions in C. How are these functions useful and used in C? Can we use pointers in functions? Discuss in detail how parameters are passed in functions with C code segments.
- 9. Explain the following with suitable examplesin C: 7 each
 - (i) Strengths and weaknesses of C language
 - (ii) Expression, its types and advantages in C.
- 10. Describe the following with examples in C: 7 each
 - (i) Looping, its types and advantages in C
 - (ii) Arrays to pointers.