

U218-146 (ESE)

I.T.

Marking Scheme

Q.1) a) Given the values A=12, B=3, C=6, D=2 - 6 marks (each correct answer carry one mark)

- | | |
|---------------------------------------|------------------------------------|
| 1) $F = A + B / C - D^2$ ans 8.5 | 2) $F = (A + B) / C - D^2$ ans 2.5 |
| 3) $F = A + B / (C - D^2)$ ans 7.5 | 4) $F = (A + B) \bmod C$ ans 3 |
| 5) $F = (A + B) \backslash D^2$ ans 3 | 6) $F = C \bmod D * A$ ans 0 |

OR

b) Problems presented in many form. At least six forms to be discuss [6 marks]

Q.2) a) What are the seven steps for solution development? [6 marks]

OR

b) Explain logic structure used for problem solving. [6 marks]

Q.3) a) Write a program C++ using inline function to find the multiplication values and the cubic values. [6 marks]

OR

b) Create a class account having data members and member functions as

Data members: 1) Name of depositor 2) account number 3) Type of account

4) Balance amount in the account

Member functions: 1) To assign initial values 2) To deposit an amount

3) To withdraw an amount after checking the balance 4) To display name and balance
write a logic for functions [6 marks]

Q.4) a) Implicit type casting 2 marks and explicit type casting 2 marks. [4 marks]

OR

b) Concept 2 marks. Example – 2marks [4 marks]

Q. 5 a) code with proper logic. [6 marks]

b) Explanation of pure virtual function with syntax. [4 marks]

c) Yes, Explanation. [4 marks]

OR

Q. 6 a) code with proper logic. [6 marks]

b) Rules of virtual function [4 marks]

c) Need of virtual function [4 marks]

Q.7 a) Explanation with Syntax -3marks , Example -3 marks [6 marks]

b) (a) To move the pointer by 15 positions backward from current position :- [4 marks]
`fout.seekg(-15, ios::cur)`

(b) To go to the beginning after an operation is over :- `fout.seekg(0, ios::beg)`

(c) To go backward by 20 bytes from the end :- `fout.seekg(-15, ios::end)`

(d) To go to byte number 50 in the file :- `fout.seekg(49, ios::beg)`

c) Difference – 3marks Preference over another – 1 mark [4 marks]

OR

Q. 8 a) Explanation of each function -4 marks. Example – 2marks. [6 marks]

b) Differentiate cin and getline function using syntax and string processing ability. [4 marks]

c) labeled diagram – [4 marks]