



Examination : Additional Sessional Seat No. : _____
Date : 12/11/2014 Day : Wednesday
Time : 09:30 to 10:45 Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

Q.1 Answer the Following : [12]

- (A) What are static data members? [2]
- (B) Mention the lifetime and scope of all storage classes. [2]
- (C) What is the difference between enumerated data type and int data type? [2]
- (D) What is the advantage of using default arguments in function? [2]
- (E) What is the difference between getch() and getche() function? [2]
- (F) What is the main advantage of passing arguments by reference? [2]

Q.2 Answer the following: [12]

- (A) What is difference between private and public access specifier? [2]
- (B) Mention the characteristics of Object Oriented Programming. [4]
- (C) Define an array of strings for days of week and sort them. [6]

OR

- (C) Define class "Stack" which performs the operations to push data items into stack and to pop data items from stack. Define main() function to support this class. [6]

Q.3 Answer the following: [12]

- (A) What is "Preprocessor Directive"? [2]
- (B) Explain Structure within Structure with example. [4]
- (C) Declare a class called "time" having hours, minutes and seconds as member variables. Define a member function called add_time that accepts two objects of type time class, performs addition of time in hours, minutes and seconds format and returns an object of type time class. Write appropriate functions for initialization and display of member variables. [6]

OR

Q.3 Answer the following: [12]

- (A) What are the values of m and n after the following two statements are executed: [2]
 int m = 5;
 int n = m++ * ++m;
- (B) Explain overloaded functions with example. [4]
- (C) Define class "Employee" which contains emp_name and emp_id as data members and member functions to get values of name and id for different objects and to display the values for objects. Create database of employees using array of objects of employee and display it. [6]
