

UNIVERSITY OF ELDORET

COM 413 (O.O.P.) CAT 1

1. (a) Explain what the following operators in C++ are used to do.
(i) . (ii) -> (iii) : (3 Marks)
(b) Explain the meanings of the following OOP terms.
(i) Object (ii) Destructor (2 Marks)
2. Assume a class named **m** with a void member function named **a()**. Write appropriate statements to input the size of instances that we want, create an array instance of that size, and then call the member function **a()** for each of the instances. **Hint:** Use a pointer. (2 Marks)
3. (i) Write a class named **student** with two data members named **regno** (a string) and **year** (an integer). The class should also have prototypes of the following member functions which should also be defined outside the class;
 - **assign()** that receives a string and an integer and assigns them to the data members.
 - **get_year()** that returns year. (5 Marks)(ii) Write code to invoke the above two member functions using a pointer. (2 Marks)

Assignment 1

4. Consider the following class for storing the code and name of a member of staff at University of Eldoret.

```
class staff
{
    int code;
    char name[50];
};
```

Required

- (i) Rewrite the class to include the following prototypes of member functions: A parameterized constructor, a copy constructor, and member function named **show()** that displays the details of the staff. (1.5 Marks)
- (ii) Write the definitions of the above three member functions when defined outside the class. (4.5 Marks)

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