No. of Printed Pages : 3

BICS-035

00505

DIPLOMA IN COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

June, 2012

BICS-035 : JAVA BASIC AND OBJECT MODELING DESIGN

Time : 2 hours *Maximum Marks : 70*

Note : *Attempt **any five** questions. Question No.**1** is **compulsory.***

1. (a) A class inherits its parent's : **2x7=14**

(i) Attributes, links

(ii) Operation

(iii) Attributes, operations, relationships.

(iv) Operations, relationships, link

(b) An actor in use case diagram is a

(i) Process (ii) Users

(iii) Sub program (iv) Comments.

(c) In a class diagram, a class is denoted by :

(i) Rectangle (ii) Circle

(iii) Ellipse (iv) Oval

(d) OMT stands for :

(i) Object Modeling Technology.

(ii) Object Method Technology.

(iii) Object Modeling Types.

(iv) None of the above

(e) _____ variable are the local variable that are accessed by the function in which the variable are declared.

(i) Automatic (ii) Static

(iii) Instance (iv) Class.

(f) A Deployment diagram shows all the nodes on the Network, their Interconnections and processor execution. (True/False)

(g) Functional modeling is represented with E-R Diagram. (True/False)

2. (a) What are the basic data types in Java ? **7x2=14**

(b) Explain the some basic Java libraries using suitable example.

3. (a) Write a program in Java to convert the given temperature in Fahrenheit in to Celsius (C/5 = (F-32)/9) **7x2=14**

(b) What is the basic construct in Java to support the exception Handling.

4. (a) What is Multiplicity in Associations ? Give example to explain Multiplicity. **7x2=14**

(b) What is the difference between Generalization and Aggregation ?

5. (a) What is Object Modeling ? Explain the Basic concepts of object modeling Notations.

(b) Define UML. Explain major features of UML with their scope. **7x2=14**

6. (a) Explain Sequence and Collaboration diagram with suitable example. **7x2=14**

(b) What are the difference between Dynamic and Functional Modeling ?

7. (a) Explain the use of constraints in functional model with example. **7x2=14**

(b) Explain object diagram and Deployment diagram with example.

8. Write short notes of ***any four*** of the following : **3.5x4=14**

(a) Polymorphism.

(b) Inheritance.

(c) Abstract classes.

(d) Use case diagram.

(e) State chart diagram.

(f) Scope of UML