DIPLOMA IN COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

December, 2011

BICS-035 : JAVA BASIC AND OBJECT MODELING DESIGN

Time: 2 hours				Maximum Marks : 70		
	ttemp mpuls	t any five q sory.	uestions	. Question	No. 1 is	
1. (a)	(i) (ii)	,	amming. ogramming.	7x2=14		
(b)	` .′	Object oriente None of abov literal	e.	losed in sin	ıgle	
	follo (i)	tes. Fill the b wing. String Boolean	olank fro	om any one Character	-	
(c)	A cla (i) (iii)	ass is denoted l Rectangle Circle	(ii)	Oval None of ab	ove	
(d)		ch of the follo lynamic model Class Use case	•	igram's is u Object Interaction		

- (e) Polymorphism can be described as:
 - (i) Hiding many different implementation behind one Interface.
 - (ii) Inheritance
 - (iii) Aggregation and Association
 - (iv) Generalization
- (f) Dynamic modelling support only state event (True/False)
- (g) Functional modelling is represented with E-R diagram (True/False).
- 2. (a) Identify the characteristics of OOP.
 - (b) Describe the following

7x2=14

- (i) Exception handling
- (ii) Runtime exception
- (iii) I/O Exception
- 3. (a) What is an Interface? What is the syntax for creating an Interface and explain.
 - (b) Explain the some basic Java libraries with an example. 7x2=14
- 4. (a) Define object, class, link and associations.
 - (b) What is Inheritance? Explain different type of Inheritance. 7x2=14

- 5. (a) Define UML. What are the major features of UML?
 - (b) Briefly explain, state diagram of UML by taking one example. **7x2=14**
- 6. (a) Define use case diagram. What is the difference between sequence and collaboration diagram?
 - (b) What are the difference between generalization and specialization with an example? 7x2=14
- 7. (a) Define Dynamic and Functional Modelling with example.
 - (b) Define object diagram and component diagram with example. 7x2=14
- 8. Write short note on the following (any four):
 - (a) Advantage of Java. 3.5x4=14
 - (b) Meta data.
 - (c) Candidate Key.
 - (d) Deployment Diagram.
 - (e) State chart diagram.
 - (f) Activity diagram.