B.Sc. III (with Credits)-Regular-Semester 2012 Sem VI B.Sc.4516-Computer Science-II: Paper-II: Elective-III: Java

GUG\S/16/5633 P. Pages: 2 Max. Marks: 50 Time: Three Hours All questions are compulsory and carry equal marks. Notes: 1. Either 1. Describe various Java tools are used in the application development. 5 a) 5 Explain Java program structure in detail. b) OR 5 Explain switch statement with suitable example. c) Write a program to convert the given temperature in Fahrenheit to Celsius using the 5 d) following conversion formula $C = \frac{F - 32}{1.8}$ and display the values. Either 2. 5 Distinguish between the following terms: Objects and classes. Data abstraction and data encapsulation. 5 Describe different forms of inheritance with examples. b) OR 5 Compare and contrast overloading and overriding methods. c) Discuss the various levels of access protection available for packages. 5 d) Either 3. 5 Discuss the concept of exception handling. a) What is multithreading? What are the methods available in Java for inter-thread 5 b) communication? Discuss with an example. OR Discuss throwing and catching exceptions. 5 c)

5

What are interrupting threads? Explain thread states and synchronization.

d)

4. Either

a)	geometric object is created when a menu is clicked.	- 5 - 2
	i) Circle.	
	ii) Rectangle.	
b)	Explain Applet life cycle? How applets are prepared and executed.	5
	OR	
c)	Draw the inheritance hierarchy for the frame and component classes in AWT.	5
d)	Write note on Flow layout and grid layout in Java.	5
5.	Solve all the questions.	
	a) What is variable? How to declare variables in Java.	21/2
	b) What is class? Give an example.	21/2
	c) Write note on Thread priorities.	21/2
	d) What is Listeners?	21/2
