

QUESTION PAPER

B Tech

Paper Code: BCS-13

Name of Subject: Internet & Java Programming

Semester: Odd (IIIrd)

Year: IInd

Session: 2016-17

Time: 3 Hrs.

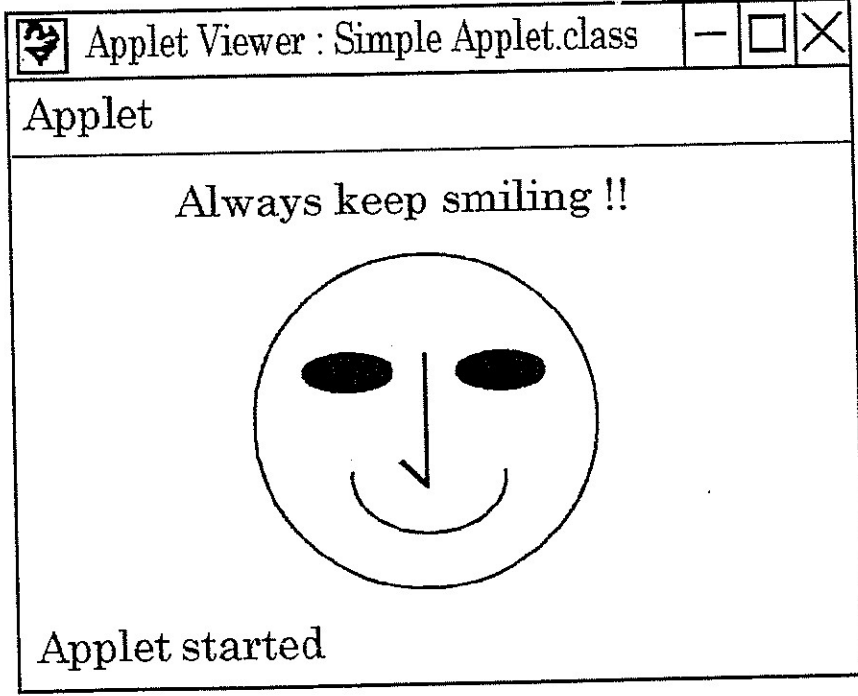
Maximum Marks: 40

Note: Answer all questions.

Q. No. 1	Attempt any three of the followings from Unit-I. Q. 1 (a) is Compulsory.	Marks
(a)	Why Java is called machine independent language? Explain the functionality of JVM.	4
(b)	List and explain various components required for a video conferencing system.	3
(c)	What is an E-mail? Explain the purpose of MIME?	3
(d)	Write a Java program which opens a connection to a "whois" port on the InterNIC server, sends the command-line argument down the socket, and then prints the data that is returned. InterNIC will try to look up the argument as a registered Internet domain name, then send back the IP address and contact information for that site.	3
Q. No. 2	Attempt any three of the followings from Unit-II. Q. 2 (a) is Compulsory.	
(a)	What are wrapper classes? Write a Java program to compute factorial of a given integer number.	4
(b)	Why Java does not support direct implementation of multiple inheritances? Write a Java program to implement such form of a problem.	3
(c)	What is a default constructor? Write a Java program to implement methods overriding.	3
(d)	How events are handled in Java? Explain the following classes: (i) ActionEvent	3

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	(ii) ComponentEvent	
Q. No. 3	Attempt any three of the followings from Unit-III. Q. 3 (a) is Compulsory.	
(a)	How Java swing components are different from AWT? Write a simple swing application to illustrate it.	4
(b)	Explain the following swing components with appropriate syntax: (i) JTree (ii) JTabbedPane	3
(c)	What are the characteristics of a JDBC? Write a Java program to demonstrate JDBC connectivity.	3
(d)	<p>Write an applet program to display the following output:</p> 	3
Q. No. 4	Attempt any three of the followings from Unit-IV. Q. 4 (a) is Compulsory.	
(a)	List the benefits that Java Bean technology provides for a component developer. Also explain introspection in context to Java Beans.	4
(b)	List four interfaces and classes that are commonly used by servlet developers	3
(c)	Explain the life cycle of a servlet. Also show the steps of building and testing a simple servlet.	3
(d)	<p>Write short notes on the following:</p> <p>(i) Session Bean (ii) Entity Bean</p>	3