COPYRIGHT RESERVED* BCA(III) — COMP/3/

2011

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

(Objectives Type Questions)

Choose the correct answer of the following :

 $2 \times 10 = 20$

- (a) Java provides a mechanism for partitioning the class, name space into more manageable chunks. This mechanism is ______.
 - (i) Interface
 - (ii) Inheritance

JX - 30/2

(Turn over)

	(iii) Package
	(iv) All of the above
(b)	By defaults all the method in interface are
	(i) Public
	(ii) Abstract
	(iii) Both (i) and (ii)
	(iv) All of the above
(c)	Which keyword is used for inherit ar interface?
(8) An e-	(i) Extends
	(ii) Implements
	(iii) Throws
	(iv) None of the above
(d)	The two major classes for byte streams are
	(i) Input and Output
	(ii) Input Stream and Output Stream
No.	(iii) Reader and Writer
	(iv) None of the above
JX - 30	(2) Contd

(e)	Serialization is the key to implementing
	(i) Input Output Stream
	(ii) Persistence Program
	(iii) Program
	(iv) All of the above.
(f)	Life cycle of an applet has
,	number of methods.
	(i) 2
	(ii) 3
	(iii) 4
	(iv) 5
(g)	An event comprise of components are
	(i) Event Object
	(ii) Event Source
	(iii) Event Handler
	(iv) All of the above
(h)	The ODBC is written in language,
	a Java program cannot directory communicate with an ODBC driver.
	(i) Java Language
	(ii) C Language
JX – 30	(3) (Turn over)
	the state of the s

What is angli Officiality	(iii) Both (i) and (ii)
oynani ii 747;	(iv) None of the above
	(i) Java soft created the JDBC-ODBC bridg
	driver that translates the
	(i) ODBC API to JDBC-API
	(ii) JDBC API to ODBC API
	(iii) JDBC API to other API
method of Jer	(iv) None of the above
	(j) Local objects are objects that execute on the
	-
	(i) Host Machine
	(ii) Host Server
	(iii) Other Server
	(iv) None of the above
	Group – B
	(Long-answer Type Questions)
	Answer any four of the following: 15×4 = 6
2	Explain the life cycle of Thread. How is the interprocess communication done in Java?
	1X - 30/2 (4) Cont

- What is abstract class? Why it is needed? Differentiate it with interface. Also explain dynamic method dispatch.
- Discuss the exception handling techniques used in Java. Also explain the difference between throw and throws.
- What do you mean by constructor overloading?

 Explain the use **super** keyword and **super()**method in constructor. Also define destructor method of Java?
- Discuss synchronization in Java with suitable example.
- 7. Explain Java networking using UDP. Describe, in detail, about Java's Collection Classes.
- 8. What is Applet? Explain its life cycle. Also explain the various event listeners and their respective handlers of an Applet.
- What is Swing? Explain the features of swing.
 Also write a swing program to implement login process.

