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Bachelor of Computer Application
BCA (III Year) Examination, 2019
PROGRAMMING WITH JAVA
Paper V (BCA-305)

Time Allowed : Three Hours

Maximum Marks : 75

*Attempt **five** questions in all, selecting **one** question from each Unit. **All** questions carry equal marks.*

*प्रत्येक इकाई में से **एक** प्रश्न का चयन करते हुये, कुल **पाँच** प्रश्नों के उत्तर दीजिए। **सभी** प्रश्नों के अंक समान हैं।*

UNIT-I

1. (*a*) What is an Object Oriented Programming Language ? Explain how Java is an OOP Language ? Give appropriate examples. 9

(*b*) Write notes on : 3×2

(*i*) Data types in Java

(*ii*) Casting

(*iii*) Java class libraries.

Or

2. (*a*) What do you mean by OOP principles ? Explain the following : 4+3+3

(*i*) Polymorphism

(*ii*) Abstraction.

(*b*) Explain the operators available in Java. Give the operator precedence used in Java. 2+3

UNIT-II

3. Explain the following : 5×3

(*a*) Constructors

(*b*) Inheritance hierarchy

(*c*) Nested class

(*d*) Overloading

(*e*) Garbage collection.

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Or

4. (*a*) What is meant by Type Wrappers ? Write a Java program to explain its usage.

(*b*) Explain copy constructor in Java. 10+5

UNIT-III

5. (*a*) Write a program to print frequency of each letter in a string :

e.g.

Input string ; Programming

Output :

P	1
R	2
O	1
G	2
A	1
M	2
I	1
N	1

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(*b*) Explain : 5×3

(*i*) String Constructor

(*ii*) String Buffer

(*iii*) String Comparison.

Or

6. (*a*) Write a Java program to search a string into another.

e.g. Input : Search "Sn" into "Sinosny"

Output : "Yes"

e.g. Input : Search "Sn" into "Sssomns"

Output : "No"

(*b*) Explain various data conversion functions available in Java. Give appropriate examples. 15

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UNIT-IV

7. What is meant by Thread ? With examples, explain how we create threads inside a program. 3+12

Or

8. Define : 5×3

(*i*) ALIVE( )

(*ii*) JOIN( )

(*iii*) Synchronization

(*iv*) Thread Communication

(*v*) Thread Priorities.

UNIT-V

9. (*a*) What do you mean by AWT ? Explain with example.

(*b*) Explain Java AWT by using polymorphism with example. 7.5+7.5

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Or

10. (*a*) Explain Applet life-cycle. Give appropriate examples.

(*b*) What is an exception ? Explain how it is done in a Java code. 10+5

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