



QP – 205

V Semester B.A./B.Sc. Examination, March/April 2022

(CBCS) (F+R) (2016 – 17 and Onwards)

COMPUTER SCIENCE – V

Object Oriented Programming Using Java

Time : 3 Hours

Max. Marks : 70

**Instruction** : Answer *all* the Sections.

SECTION – A

Answer **any ten** questions. **Each** question carries **two** marks. (10×2=20)

1. JAVA is a platform independent language. Justify.
2. What is JAVA API ?
3. Define an object and class.
4. What is vector ? How is it different from an array ?
5. What is system in and system out ?
6. What are wrapper classes ?
7. How are this and super keywords used ?
8. Define instance variables in java.
9. What is an exception ?
10. Define multithread in Java.
11. What is 'labelled break' and 'labelled continue' ?
12. What are different stream classes available in Java ?

SECTION – B

Answer **any five full** questions. **Each** question carries **ten** marks. (5×10=50)

13. a) Explain JVM architecture with a neat diagram. 5
- b) Explain object oriented programming features in Java. 5

P.T.O.



14. a) Explain the types of inheritance with example. 5  
 b) Explain life cycle of thread. 5
15. a) Explain constructor overloading with an example. 5  
 b) Explain how exception handling is achieved in Java. 5
16. a) Explain the applet life cycle with a neat diagram. 5  
 b) Write a program to implement mouse events using applets. 5
17. a) What is package ? Explain different type packages in Java. 5  
 b) Write a Java program to implement string operations. 5
18. a) Explain vector class with example. 5  
 b) What is an interface ? Explain with an example how a class implements an interface. 5
19. a) Explain method overloading with an example. 5  
 b) Explain final variables, final method and final classes with suitable examples. 5
20. a) Explain any seven methods of graphic class with an example for each. 7  
 b) Explain the use of file input stream class and file output stream class. 3

## SECTION – B

(2x10=20)

2

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