**V Semester B.A./B.Sc. Examination, November/December 2017
(Semester Scheme) (F + R) (CBCS) (16-17 and Onwards)
COMPUTER SCIENCE – V
Object Oriented Programming Using JAVA**

Time : 3 Hours   Max. Marks : 70

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

SECTION – A

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

1) What is a web browser ? Give an example.

2) Write a note on JVM.

3) What is nested if statement ? Give an example.

4) What is a final variable ? Give an example.

5) What is vectors ?

6) Differentiate between string and string buffers.

7) What is the use of import keyword ? Give an example.

8) What is an error ? Mention types of errors.

9) Differentiate between throws and throw keyword.

10) Write a note on repaint () method.

11) What is stream classes ? Mention two types of stream classes.

12) Mention any four I/O exceptions.

SECTION – B

II. Answer **any 5** of the following questions. **Each** question carries **10** marks. **(5×10=50)**

13) a) Explain any five features of Java.   5

     b) What is command line arguments ? Explain with example.   5

14) a) Explain any five bitwise operators.   5

     b) Explain any two looping statements with syntax and example.   5

15) a) Explain classes and objects with syntax and example.   5

     b) Write a note on visibility controls.   5

16) a) Write a Java program to sort list of elements in ascending and descending order and show the exception handling. 5

b) Explain creating and implementing interfaces with example. 5

17) a) Write a note on user defined packages. 5

b) Explain with neat diagram life cycle of a thread. 5

18) a) Write a note on implementing runnable interfaces with example. 5

b) Explain multiple catch statements with example. 5

19) a) Explain getting numeric input from the user and display using applet. 5

b) Write a Java program to implement keyboard event using applet. 5

20) a) Explain drawing circles and ellipse with example. 5

b) Write a note on reading and writing characters to file. 5

———————————