

**Fifth Semester B.C.A. Degree Examination, March/April 2021**

*(CBCS – Semester Scheme)*

**Computer Science**

**Paper X – JAVA PROGRAMMING**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to Candidates : Answer all the Sections.*

**SECTION – A**

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

1. What is JVM?
2. What are the primitive data types?
3. Explain increment operator with example.
4. What is constructor? Give example.
5. What is an abstract class?
6. What is Wrapper classes?
7. What is package? Give example.
8. What is daemon thread?
9. Differentiate between checked and unchecked exceptions.
10. List the advantages of an applets.
11. What is a graphics class?
12. Mention any four methods of Reader Class.

**SECTION – B**

- II. Answer any **FIVE** questions. Each question carries **10** marks: **(5 × 10 = 50)**
13. (a) Explain any five features of Java. **(5)**  
(b) Write a note on implementing a Java program. **(5)**
14. (a) Explain any five Mathematical functions. **(5)**  
(b) Write a program to display all prime numbers between two limits. **(5)**
15. (a) What is method overloading? Explain with example. **(5)**  
(b) Write a note on visibility controls. **(5)**
16. (a) What is an array? Explain two dimensional array with example. **(5)**  
(b) Explain any five Vector methods with example. **(5)**
17. (a) What is an interface? Explain with example. **(5)**  
(b) Write a note on Implementing the Runnable Interface. **(5)**
18. (a) What is thread priority? Explain with example. **(5)**  
(b) Explain multiple catch statements with example. **(5)**
19. (a) Explain steps involved for developing and testing applets. **(5)**  
(b) Explain getting inputs from the user in an applet. **(5)**
20. (a) Explain drawing circles and ellipses with example. **(5)**  
(b) Briefly explain bytes stream classes. **(5)**
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