

B. C. A. (Third Year) Examination, 2020
(Gr-I)

Note: Each section is compulsorily written on separate answer sheet.

E-6631

Section-‘A’

PROGRAMMING with JAVA

Maximum Marks : 40 (Regular)

Note: Attempt all questions. All questions carry equal marks. Each question must be answered in maximum 800 words.

1. Explain the significance of Java Virtual Machine and Java Environment. Compare Nesting of If-Else statement and Else....if Ladder with appropriate example.
2. Differentiate between the following with appropriate example :
 - (i) Method Overloading and Overriding Method
 - (ii) Finalize Methods and Abstract Methods
3. Why Interface and Vectors are used in Java? Write a program to demonstrate the use of package in Java.
4. Explain Thread Life Cycle and with the help of program explain the thread priority and Blocking of a Thread.
5. Give difference between Local and Remote Applets. Create an Executable Applet and show parameter passing in it.

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Section-‘B’

ARTIFICIAL INTELLIGENCE & EXPERT SYSTEM

Maximum Marks : 40 (Regular)

Note: Attempt all questions. All questions carry equal marks. Each question must be answered in maximum 800 words.

1. Explain Breadth First Search and Depth First Search techniques.
2. Explain any two Knowledge Representation Method with appropriate example.
3. What is PROLOG? Explain its key features.
4. Explain the architecture of an Expert System and give its application area.
5. Explain the following :
 - (i) Structure of Neuron
 - (ii) Hopfield Network