R16

SET - 1

II B. Tech II Semester Supplementary Examinations, November - 2019
JAVA PROGRAMMING
(Com to CSE, IT)

Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**
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PART –A

1. a) Is JVM a Compiler or Interpreter? Justify your answer with proper explanation. 3M
    b) What is the difference between 'static' and 'non-static' methods in JAVA? 2M
    c) Write about 'final' and 'finally' keywords in JAVA. 2M
    d) Write about the advantages and disadvantages of multithreading in JAVA. 2M
    e) What is an Event Listener in JAVA programming? 2M
    f) What is the container class in JAVA and also mention its subclasses. 3M

PART -B

2. a) Explain the important principles of Object Oriented Programming Paradigm. 7M
    b) Explain in detail the most significant features of JAVA programming. 7M

3. a) What is a Constructor? What is the main purpose of Constructors? How to invoke a constructor in JAVA? 7M
    b) Why do we need Nested classes in JAVA programming? Explain the types of non-static nested classes with a JAVA program. 7M

4. a) What is an Interface? Give the general form of an Interface and also discuss the implementation details of Interfaces. 6M
    b) What is the significance of the CLASSPATH environment variable in creating or using a package? 4M
    c) Write the significant differences between Assertions and Exception Handling. 4M

5. a) What is meant by Thread Synchronization in JAVA programming? Why it is important? With an sample program, explain the JAVA's language-level support for synchronizing threads. 10M
    b) Write a JAVA program to read /write from Random Access File. 4M

6. a) With a neat diagram, explain the life cycle of Applet. 7M
    b) Explain the importance of Adapter classes with a JAVA program. 7M

7. a) Write a JAVA program to create EDIT Menu (Cut, Copy, and Paste) of NOTEPAD. 10M
    b) What is a Layout manager? Explain in brief about various layout managers supported by JAVA. 4M