

ROLL No:

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Total number of pages: 11
Total number of questions: 06

MCA 4th Sem
Programming in Java
Subject Code – MCAP1-418 (RG)

Paper ID: M/18
(2016 batch)

Max Marks: 60

Time allowed: 3 Hrs
Important Instructions:

- All questions are compulsory

PART A (2×10)

All COs

- Q. 1. Short-Answer Questions:
- Define JVM.
 - What are nested classes?
 - How java is a portable and distributed language?
 - What are command line arguments?
 - What are the situations where final keyword can be used?
 - What do you mean by Exception?
 - Write any four in-built package name.
 - Write a program to implement a thread.
 - Define servlets.
 - What is the importance of an Interface?

PART B (8×5)

- Q. 2. Differentiate between C++ and Java Language. CO1
OR
What is a statement? Explain different types of statements? How switch statement can be implemented? CO1
- Q. 3. Explain a) Garbage Collection b) Finally c) Final d) Finalize. CO2
OR
What is inheritance? How multiple inheritance can be implemented? CO2
- Q. 4. What is an Interface? How it can be implemented? CO3
OR
What are Packages? Explain its types. How it can be implemented? CO3
- Q. 5. What is an Applet and its Life cycle? Write a program to implement an Applet. CO4
OR
What do you mean by Graphic Programming? Explain various layouts and controls. CO4
- Q. 6. What are constructors? Explain different kinds of constructors? CO5
OR
What are Servlets? Explain different types of Servlets with different examples. CO5