

TCS-501

B. TECH. (CSE) (FIFTH SEMESTER) MID SEMESTER EXAMINATION, 2018

JAVA PROGRAMMING

Time : 1:30 Hours

Maximum Marks : 50

Note : (i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

Section—A

1. Fill in the blanks/True/False : (1×5=5 Marks)

(a) Java is a case-sensitive programming language. (True/False)

(b) Java byte code is platform independent. (True/False)

(c) In Java, the word true is a Boolean literal. (True/False)

(d) Java is a Language.

(e) JVM (Java Virtual Machine) acts as a run-time engine to run Java applications.

(True/False)

(2)

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2. Attempt any *five* parts : (3×5=15 Marks)
- (a) Define class and object in Java.
 - (b) "Java is called Machine Independent language." Justify this statement with proper explanation.
 - (c) Give the characteristics of OOPs in detail.
 - (d) "Write Once and Run Anywhere." Support this statement with proper reasoning.
 - (e) Explain garbage collection in Java.
 - (f) Give the naming conventions in Java.

Section—B

3. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- (a) What are the principles and applications of Java ? Discuss.
 - (b) What is the role and responsibility of JVM in program execution ?
 - (c) What are command line arguments ? Write a java program factorial of a number using command line argument.
4. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- (a) What are the different access modifiers in Java ? Explain with suitable examples.

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(3)

- (b) What is a constructor ? What is its requirement in programming ? Explain with program.
 - (c) Explain wrapper class. Explain Autoboxing and Unboxing with suitable example.
5. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- (a) What is interface ? How to create it and access it ? Explain with example.
 - (b) What is inheritance ? Explain in detail inheritance in java with examples.
 - (c) Write short notes on the following :
 - (i) Method overloading
 - (ii) Method overriding

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