

333555(33)

B. E. (Fifth Semester) Examination, Nov.-Dec. 2019

(New Scheme)

(IT Branch)

PROGRAMMING in JAVA

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Attempt all questions. Part (a) is compulsory.
Attempt any two questions out of remaining
part (b), (c) & (d).*

Unit-I

- 1. (a) Define class path problem. 2
- (b) Write a program in Java to accept a number from

333555(33)

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user and print the number in reverse order. Also find the sum of all digits in the number. 7

- (c) Explain Garbage collection in Java with suitable program. 7
- (d) Explain Enum types with a suitable program. 7

Unit-II

- 2. (a) What is wrong with the following interface? 2

```
Public interface something Is wrong
{
Void a method (int a value)
{
system.out.println ("hello")
}
}
```

- (b) Explain Wrapper classes with a suitable program. 7
- (c) Explain Accessor and mutator method with an example. 7
- (d) Write short notes on : 7

333555(33)

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- (i) This key word
- (ii) Shallow and deep cloning

Unit-III

- 3. (a) Explain collection framework. 2
- (b) Write a program that computes your initials from your full name and displays them. 7
- (c) Write a program to demonstrate the concept of try, multiple catch and finally statements. 7
- (d) List out difference between checked and unchecked exceptions. http://www.csvtuonline.com 7

Unit-IV

- 4. (a) Can you pass a thread object to Execution execute? Would such an invocation make sense? 2
- (b) Write an applet program to handle all the mouse events. 7
- (c) Elaborate the concepts of thread and also explain the thread life cycle in detail. 7
- (d) Explain file handling in JAVA. 7

Unit-V

- 5. (a) On what thread should GUI's be created, to guarantee thread safety? 2
- (b) Write a program to add 2 numbers using applet. 7
- (c) Write short notes on : 7
 - (i) Event driven programming
 - (ii) Swing
- (d) Elaborate the concept of JDBC. Also explain types of JDBC drivers. 7