

T.Y. B. SC. (Computer Science) SEM –V (CBCS - 2016 COURSE) :

WINTER - 2018

SUBJECT : CORE JAVA

Day : Wednesday

Date : 17/10/2018

Time : 03.00 PM TO 06.00 PM

Max. Marks : 60

W-2018-0932

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
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Q.1 Answer **ANY TWO** of the following. **(12)**

- a) What is a package? Explain user defined package with suitable example.
- b) Describe interface implementation with suitable example.
- c) Explain following object oriented concepts:
i) class ii) object iii) polymorphism iv) abstraction v) encapsulation

Q.2 Answer **ANY TWO** of the following. **(12)**

- a) Write a JAVA program to implement multilevel inheritance.
- b) Describe structure of JAVA program with compiling and running environment.
- c) Explain one dimensional and two dimensional arrays with suitable example.

Q.3 Answer **ANY TWO** of the following. **(12)**

- a) Write a JAVA program to display employee details using class and object.
- b) Define Exception. Explain user defined exception with suitable example.
- c) Explain following String class methods:
i) subString ii) length iii) replace iv) toUpperCase v) concat vi) trim

Q.4 Answer **ANY THREE** of the following. **(12)**

- a) Write a JAVA program to check given number is palindrome or not.
- b) Explain single inheritance with suitable example.
- c) Explain method overloading with suitable example.
- d) Describe operators and keywords in JAVA.

Q.5 Answer **ANY FOUR** of the following. **(12)**

- a) Write various tools of Jdk Environment.
- b) Explain different access modifiers of JAVA.
- c) What are the features of JAVA.
- d) Write a JAVA program to find factorial of given number.
- e) Explain method overriding.
- f) Write types of constructor.

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