BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)
T.Y.B.Sc.(Computer Science) Sem-V : WINTER- 2022
SUBJECT : PROGRAMMING IN JAVA-I

Day : Monday
Time : 02:00 PM-05:00 PM

Date : 12/12/2022
W-20117-2022
Max. Marks : 60

N.B.

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate **FULL** marks.
3) Draw neat and labeled diagram wherever necessary.

Q.1 Attempt **ANY TWO** of the following : **(12)**

a) Write a java program to display student details using class and object.
b) Elaborate different features of java.
c) Define exception. Explain with example how exceptions are handled in java.

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

a) Illustrate different data types supported by java with suitable example.
b) What is interface? Explain with suitable example how interface is implemented.
c) Elaborate the concept of method overriding with java code.

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

a) Write java program to find area of square, rectangle and circle using concept of method overloading.
b) Explain the terms: encapsulation, abstraction, class and object.
c) Illustrate in brief any five string methods supported by java with suitable example.

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

a) Write java code to find factorial of given number.
b) Differentiate between runtime and compile time polymorphism.
c) Explain how to declare and use two dimensional arrays in java.
d) What is package? Explain with example how to create and use packages.

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

a) List and explain in brief access specifiers supported in java.
b) Write java program to accept 10 numbers and find their sum.
c) Explain types of constructors support by java.
d) Write java program to check number is odd or even.
e) Explain working of JVM.
f) What is the use of super, this and interface keywords in java?

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