

[Nov-23]

GITAM (Deemed to be University)
[20SCA801]

MCA Degree Examination

III Semester

OBJECT ORIENTED PROGRAMMING WITH JAVA

(Effective from the admitted batch 2020–21)

Time: 3 Hours

Max.Marks: 60

Instructions: All parts of the unit must be answered in one place only.

Section-A

1. Answer all the Questions: (10×2=20)

- a) What is type casting? Give example.
- b) What is Overriding? What is its purpose?
- c) Define super class and sub class ?
- d) Explain about the abstract class ?
- e) What is Exception Handling and what is its purpose ?
- f) What is synchronization ? What is its purpose?
- g) State the purpose of Iterable Interface.
- h) Explain about *For Each* Alternative ?
- i) What is Swing Programming? What is its purpose ?
- j) What is type casting? Give an example ?

Section-B

Answer the following: (5×8=40)

UNIT-I

2. Explain in detail the salient features of Java.

OR

3. What is call by value and call by reference? Give program example for each of them.

UNIT-II

4. Discuss Method Overriding and Give its Program example

OR

5. Discuss about interfaces? Give a program example

UNIT-III

6. Explain various Exception Handling keywords available in java.

OR

7. Discuss about wait(), isAlive () and join() with program example

UNIT-IV

8. Discuss about ArrayList (java collections) and specify the methods with a program example.

OR

9. a) Describe about Scanner Class with an example.
b) Give the need of String Tokenizer with an example.

UNIT-V

10. Differentiate between Border Layout and Flow Layout with a program example.

OR

11. Discuss JTabbedPane, JScrollPane with a Program Example .