

Seat Number: _____

Duration: 2:30 hrs

835031123

Marks:- 75

Note:- 1) All questions are compulsory.

2) Figures to the right indicate maximum marks.

Q.1) Answer the following Questions (Any Four)

(20 Marks)

- a) What are the features of Java? [CO1-R]
- b) Write a short note on JVM. [CO1-R]
- c) Write a short note on Java Comments. [CO1-R]
- d) What is constructor and its type? [CO1-R]
- e) Different in between abstract class and interface. [CO1-R]
- f) Write a short note on threads [CO1-U]

Q.2) Answer the following Questions (Any 4)

(20 Marks)

- a) What is collection framework? List it's advantages. [CO2-RU]
- b) Explain interface sort set with example. [CO2-UA]
- e) Explain the use of class Vector to store dynamic sized constrains. [CO2-U]
- d) Explain swing its need and features [CO2-U]
- e) Write program to demonstrate KeyListner and its methods [CO2-E]
- f) Write a short note on driver manager class [CO2-R]

Q.3) Answer the following Questions: - (Any 4)

(20 Marks)

- a) Write a short note on CGT describe its advantage and disadvantage [CO3-RU]
- b) Discuss the advantage of servlets [CO3-U]
- c) Explain servlet life cycle in details [CO3-U]
- d) Differentiate between JSP and servlet [CO3-U]
- e) Enlist the implicit object of JSP. Explain any four of them in detail [CO3-RU]
- f) List and Explain valid JSON data types [CO4-R]

Q.4) Answer the following Questions: - (Any 5)

(15 Marks)

- a) Compare between Java and C++ [CO1-U]
- b) Explain final Keyword [CO1-U]
- c) Write a program to demonstrate use of iterator [CO2-E]
- d) Describe JDBC driver [CO2-R]
- e) Explain the lifestyle of JSP [CO3-U]
- f) Compare between JSON and XML [CO4-U]