

16/3/24

Class : S.Y. B.Sc. (C.S.) (3)

Duration: 2:30 hrs

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) Compare between Java and C++? [CO1-A]
- 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]
- c) Different in between abstract class and interface. [CO1-A]
- f) Write a short note on tokens in Java [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]
- c) 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 Common Gateway Interface [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) Explain the JSP architecture [CO3-U]