

WINTER – 2022

UNIT-1

Q.1. a) Write an application program in java to swap two numbers using Third variable. (6)

b) Explain widening and narrowing in the context of java primitive data type conversion. (7)

Q.2 a) Write a java program to check whether the character is vowel or consonant using IF-ELSE. (7)

b) Differentiate between procedural language and object oriented language? (6)

UNIT-2

Q.3 a) what is the purpose of 'this' keyword? Explain with suitable example. (7)

b) Explain the difference between instance variables, local variables and class variables. (6)

Q.4 a) Write a java program that creates an object and initializes it's data members using constructor. (7)

b) What is command line arguments? Explain with example. (6)

UNIT-3

Q.5 a) what is method overriding? Explain with an example (7)

b) What is package? Explain the procedure for creating user defined package. (7)

Q.6 a) Create a class named 'Member' having the following members: Data Members:

i) Name

ii) Age

iii) Salary

It also has a method named 'print salary' which prints the salary of the members. Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and

'Manger' classes have data members 'specialization' and 'department' respectively now, assign name, age and salary to an employee and a manager by making an object of both of these classes and print all the respective data members of the classes. (7)

b) Explain the difference between Abstract class and Interface. (7)

UNIT-4

Q.7 a) Explain the following terms: (6)

- i) Try
- ii) Catch
- iii) Throw
- iv) Throws
- v) Finally
- vi) Exceptions

b) Write a java program to read character stream using file Reader. (7)

Q.8 a) Write a program that creates a text file called test.txt and writes on it the string "some text written on a file". (7)

b) What is Exception Handling Mechanism? Write an application which handles arithmetic exception. (6)

UNIT-5

Q.9 a) Differentiate between:

- i) Paint () and Repaint () methods
- ii) Applications and applets. (8)

b) Write a program to pass employee name and id number to an applets. (6)

Q.10 a) what is get Document Base () and get Codebase (); illustrate with example? (8)

b) What are the different parameters of applet tag? (6)

UNIT-6

Q.11 a) Explain delegation model with example. **(6)**

b) Write a program to demonstrate the key event Handlers. **(7)**

Q.12 a) Write a java Application to create a file menu items like New, Open, Save, Print and close. **(7)**

b) Explain Mouse Listener and Mouse Motion Listener interface in event delegation model. **(6)**

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