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Question Paper Code: 54202

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Fourth Semester

Computer Science and Engineering

15UCS402 - JAVA PROGRAMMING

(Regulation 2015)

(Common to Information Technology)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

- _____ is a technical definition of the language that includes the syntax and semantics of the Java programming language. CO1- R
(a) Java language specification (b) Java API (c) Java JDK (d) Java IDE
- Which of these access specifiers can be used for an interface? CO2- R
(a) Public (b) Protected (c) private (d) All of the above
- When Exceptions in Java does arise in code sequence? CO3- R
(a) Run time (b) compile time
(c) can occur any time (d) None of the mentioned
- Which of these is an incorrect Statement? CO4- R
(a) It is necessary to use new operator to initialize an array
(b) Array can be initialized using comma separated expressions surrounded by curly braces
(c) Array can be initialized when they are declared
(d) None of the mentioned
- The method to receive and process the event is implemented by, CO5 R
(a) Event Source (b) Event Listener (c) Both a and b (d) None of the above

PART – B (5 x 3= 15 Marks)

6. Write a java program to compare the two strings. CO1- R
7. What is the difference between Byte Stream and Character Stream Class.? CO2- R
8. What are the differences between an abstract class and an interface? CO3- R
9. Define Component and Containers in Java CO4- R
10. Identify the reason for pluggable look and feel feature of Swing Component CO5- R

PART – C (5 x 16= 80 Marks)

11. (a) (i) Write a java program to display the Fibonacci series CO1- App (8)
(ii) Explain the different visibility controls and compare each of them CO1- U (8)
Or
(b) (i) Write a java program to implement bubble sort? CO1- U (8)
(ii) Explain the methods available under String and String Buffer classes. CO1- U (8)
12. (a) Develop an abstract Reservation class which has Reserve abstract method. Implement Reserve method in the sub-classes Reserve Train and Reserve Bus CO2- U (16)
Or
(b) Java Program to Add Two Complex Numbers by Passing Class to a Function. CO2- App (16)
13. (a) Explain exception handling mechanism in Java with suitable examples. CO3- U (16)
Or
(b) What are generics wildcard arguments? Give an example. CO3- U (16)
14. (a) Explain in detail about the collection classes with suitable examples. CO4- U (16)
Or
(b) (i) What is java Enumeration Interface? Explain with an example. CO4- U (8)
(ii) What is the File Output Stream methods available in Java. Explain with an example. CO4- U (8)

15. (a) Write a program that creates a window entitled "File Copier". CO5- App (16)
It contains one button saying "Choose a file to copy". When the button is clicked, an open file chooser dialog appears. If a file is selected, a save file chooser dialog appears that allows the user to specify the name of the file.

Or

- (b) Create a window entitled "change Color". It contains three CO5- App (16)
buttons namely "RED", "GREEN" and "BLUE". When a button is clicked, then the background color will be changed to appropriate color.

