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Question Paper Code: 59272

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Open elective

Civil Engineering

15UCS972 - PROGRAMMING WITH JAVA

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 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 is specified by a File object? CO2- R
(a) a file in disk (b) directory path
(c) directory in disk (d) None of the mentioned
- Which of these class is used to create an object whose character sequence is mutable? CO3- R
(a) String() (b) StringBuffer() (c) both (a) & (b) (d) none
- Which of the following is correct way of implementing an interface salary by class manager? CO4- R
(a) Class manager extends salary { } (b) Class manager implements salary { }
(c) Class manager imports salary { } (d) None of the mentioned
- Which of these methods of class String is used to obtain length of String object? CO5- R
(a) get() (b) Sizeof() (c) lengthof() (d) length()

PART – B (5 x 3= 15 Marks)

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| 6. | Explain JDK, JRE and JVM?. | CO1-U |
| 7. | What's the difference between an interface and an abstract class? | CO2- R |
| 8. | What is the purpose of the finally clause of a try-catch-finally statement? | CO3- R |
| 9. | Identify the reason for pluggable look and feel feature of swing component | CO4- R |
| 10. | Explain the scanner class in java | CO5- U |

PART – C (5 x 16= 80Marks)

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| 11. | (a) What are the Program control statements in Java Programming | CO1- U | (16) |
| | Or | | |
| | (b) Describe the concepts of Data types and operators. | CO1- U | (16) |
| 12. | (a) A CD shop owner wishes to maintain a catalogue of his Cds. For each CD he maintains id, title, price, type. Help the owner to store some of the CD details by defining a class for the Cds. Also provide a way to know the total number of Cds specified so far | CO2- Ana | (16) |
| | Or | | |
| | (b) Create two classes namely Sub_class and Super_class, both have a method named display() with different implementations, and a variable named num with different values. Invoke display() methods of both classes and print the value of the num variables of both classes. | CO2- Ana | (16) |
| 13. | (a) Discuss in detail about character streams and byte streams | CO3- U | (16) |
| | Or | | |
| | (b) Explain the concepts of throws with example. | CO3- U | (16) |
| 14. | (a) Design a simple calculator using Jmenu.. | CO4- Ana | (16) |
| | Or | | |
| | (b) Develop an Online Exam Project in Java Swing without database. | CO4- Ana | (16) |
| 15. | (a) Explain about String constructors and String methods with examples. | CO5- U | (16) |
| | Or | | |
| | (b) Explain how arrays are handled in java with examples | CO5-U | (16) |