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Question Paper Code: 54202

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

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)

1. Which of these operators is used to allocate memory for an object? CO1- R
(a) malloc (b) alloc (c) new (d) give
2. Which of these access specifiers can be used for an interface? CO2- R
(a) Public (b) Protected (c) private (d) All of the above
3. Which of these keywords is not a part of exception handling? CO3- R
(a) Try (b) Finally (c) Thrown (d) Catch
4. 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
5. Which of these is a type of stream in Java? CO5 R
(a) Integer stream (b) Short stream (c) Byte stream (d) Long stream

PART – B (5 x 3= 15 Marks)

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| 6. | What is inheritance with an example? | 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. | What are predefined streams? | CO4- R |
| 10. | What is the use of JMenuBar with an example?. | CO5- R |

PART – C (5 x 16= 80 Marks)

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| 11. | (a) (i) Write a java program to display the Palindrome. | CO1- App | (8) |
| | (ii) Explain the access specifiers (Visibility Controls) supported by Java with an example code. | CO1- U | (8) |

Or

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| (b) | (i) Write the procedure in which an array can be created in Java. Explain the two dimensional arrays with an example program. | CO1- U | (8) |
| | (ii) Explain the methods available under String and String Buffer classes. | CO1- U | (8) |
| 12. | (a) Explain Constructors with an examples programs. | CO2- U | (16) |

Or

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| (b) | Java Program to Add Two Complex Numbers by Passing Class to a Function. | CO2- App | (16) |
| 13. | (a) What is a Java Exception & its Types? Define try, catch, and throw in an Exception block with an example program. | CO3- U | (16) |

Or

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| (b) | What are generics wildcard arguments? Give an example. | CO3- U | (16) |
| 14. | (a) Write a C++ program to demonstrate file handling as follows: get strings as input from the user, store them in a file, retrieve them and display them. | 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) Explain about Border Layout Components . To create an applications using all the components. CO5- App (16)
- Or
- (b) How to add scrollbar to JscrollPane Components to be removed in java swing with an example. CO5- App (16)

