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| CGI |
| LAB REPORT |
| MCQ |
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| **SWET SHEERSH** |
| **7/22/2023** |

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| This report contains questions and their answer from chap. 3 to 11 |

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| L3 |  |  |
| 1 | How many Data types in java? | 2 (primitive & Non-primitive) |
| 2 | how many types of variable?? | 3(instance var.,local var.,static var) |
| 3 | "native" is keywowd, is it true?? | Yes True |
| 4 | keywords are?? | Reserved identifiers |
| 5 | what is the size of float?? | 32 bit |
| 6 | which data type having size 1 bit?? | boolean |
| 7 | Logical NOT (!) is a type of ?? | unary operator |
| 8 | "++" operator is used for?? | Increment |
| 9 | " !=" is which type of operator? | Relational Operator |
| 10 | In [Java](https://www.javatpoint.com/java-tutorial), string is an object that represents ?? | sequence of char values |
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| L 4 |  |  |
| 1 | object is an?? | Instance of class |
| 2 | class is blue print of?? | object |
| 3 | packages are used to reduce?? | Naming conflict |
| 4 | private keyword is?? | Access Modifiers |
| 5 | static import is used for | importing static members |
| 6 | which pakage contains sqrt method?? | java.lang.Math |
| 7 | static methods of class can be called | without creating instance |
| 8 | private variable cannot be accessed | outside the class |
| 9 | private variable with getter and setter is used for | Encapsulation |
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| 10 | Constructor name strictly should be same as | class |
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| L 5 |  |  |
| 1 | which keyword is used for creating an object? | New |
| 2 | object is parent class for every java class implicitily | TRUE |
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| 3 | toString() method is used ?? | describe object in string |
| 4 | wrapper class for int is?? | Integer |
| 5 | Integer.parseInt("123") is used to convert | string to int |
| 6 | how many type of type casting | 2 |
| 7 | int c=(int)(5.7/2) is it works?? | yes, downcasting |
| 8 | float c=5 which type of type casting? | widening |
| 9 | child class can be cast into? | parent class |
| 10 | stringBuilder is used for?? | Modify a string |
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| L6 |  |  |
| 1 | inheritance is the mechanism of inheratating | characteristics and property from parent class |
| 2 | inheritance is used for | enhancement and alteration |
| 3 | Java supports only which types of inheritance | Single, Multilevel, and Hierarchical |
| 4 | which keyword is used for inheritance? | extend |
| 5 | Any class preceding a specific class in the | hierarchy is said to be super class |
| 6 | super keyword is used to refer?? | instance of parent class |
| 7 | instanceof keyword is ued for check whether | object is instance of class |
| 8 | ways in which polymorphism is implemented | 2 |
| 9 | Method Overloading is compile time polymorphism | TRUE |
| 10 | Method overriding is run time polymorphism | TRUE |
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| L7 |  |  |
| 1 | Abstruct class can only have abstruct methods | FALSE |
| 2 | we can't create an instance of | abstruct and interface |
| 3 | Abstruct class can only be implemented by using | extends keyword |
| 4 | Interface can be implemented by | using implements keyword |
| 5 | Abstruct method can have implemented method | Yes |
| 6 | Interface methods can only be implemented if | it is static or default |
| 7 | default method is used in | interface (after java 8) |
| 8 | can default method be overriden?? | yes |
| 9 | static method is accessed without creating an | object |
| 10 | static method can be overriden | FALSE |
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| L8 |  |  |
| 1 | What does the "^" represent in a regex? | start |
| 2 | method in Java is used to find the first occurrence | find |
| 3 | "\d" is used to match what type of character? | digit |
| 4 | "[A-Za-z]" is used to match ? | Letters |
| 5 | what does the metacharacter "." represent? | Any Character |
| 6 | "\b" is used to match | word boundary |
| 7 | method used to replace a regex match with a new | replate |
| 8 | "a\*b" regex exp. is used | to match starting from a and ends with b |
| 9 | what does '$' represent in regex? | end |
| 10 | regex is imported from?? | util.rejex |
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| L9 |  |  |
| 1 | What is an exception in Java? | Error |
| 2 | keyword is used to handle exceptions in Java? | try |
| 3 | Which block is used to handle the exception? | catch |
| 4 | which block executes regardless of any exception? | finally |
| 5 | What is the process of creating your own exception class in Java? | Customization |
| 6 | What is the root class of all Java exceptions? | Throwable |
| 7 | What type of exception occurs when an inappropriate argument? | IllegalArgumentException |
| 8 | What type of exception occurs when an array index is out of bounds? | IndexOutOfBoundsException |
| 9 | What type of exception occurs when a file is not found? | FileNotFoundException |
| 10 | What type of exception occurs when an arithmetic operation produces an undefined result? | ArithmeticException |
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| L10 |  |  |
|  | 1. What is a fixed-size data structure that stores elements of the same type in contiguous memory locations in Java? Answer: Array  2. In Java, the index of the first element in an array is always: Answer: 0  3. Which keyword is used to declare an array in Java? Answer: new  4. :What is the maximum number of dimensions an array can have in Java? Answer: 3  5. The length of an array in Java can be obtained using which method? Answer: length()  6. In Java, arrays are of which data type? Answer: Object  7. Which of the following is the correct way to access an element in a one-dimensional array with the index 'i'? Answer: array[i]  8. What happens if you try to access an index that is out of the bounds of an array in Java? Answer: It throws an ArrayIndexOutOfBoundsException  9. To sort an array in ascending order, you can use which method from the Arrays class in Java? Answer: sort()  10. Which method is used to copy elements from one array to another in Java? Answer: System.arraycopy() |  |
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| L11 |  |  |
|  | 1. What is a "Collection" in Java? Answer: Group  2. Does "List" allow duplicates? Answer: Yes  3. Is "Set" an ordered collection? Answer: No  4. Which interface stores key-value pairs? Answer: Map  5. Does "HashSet" allow duplicate elements? Answer: No  6. Is "LinkedList" a dynamic data structure? Answer: Yes  7. Does "TreeMap" maintain a sorted order? Answer: Yes  8. Does "ArrayList" use an array to store elements? Answer: Yes  9. Is "Iterator" used for sequential access? Answer: Yes  10. Is "HashMap" synchronized? Answer: No |  |