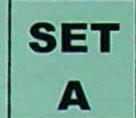


Duration: 3 hrs.

Time: 30 mins.

2024/06



Full Marks: 70

Marks: 20

Choose the correct answer from the following:

$$1 \times 20 = 20$$

1. Which of the following is not a Java features?
 - Dynamic
 - Architecture Neutral
 - Use of pointers
 - Object-oriented
 2. Which of the following for loop declaration is not valid?
 - for (int i = 99;)
 - for (int i = 7; i <= 77; i += 7)
 - for (int i = 20; i >= 2; -i)
 - for (int i = 2; i <= 20; i = 2 * i)
 3. Which package is a java library?
 - java.util package
 - java.util package
 - java.io package
 - All
 4. Which option is false about the *final* keyword?
 - A *final* method cannot be overridden in its subclasses
 - A *final* class can be compiled
 - A *final* class cannot extend other classes
 - A *final* method gives error
 5. Which keyword is used for accessing the features of a package?
 - package
 - import
 - extends
 - export
 6. What is the function having same name with class called?
 - Library function
 - User defined function
 - Constructor function
 - Overloading function
 7. Which statement is true about Java?
 - Java is a sequence-dependent programming language
 - Java is a code dependent programming language
 - Java is a platform-dependent programming language
 - Java is a platform-independent programming language
 8. What is missing in the statement void main (String args[])?
 - Public
 - Public static
 - Private
 - Private static
 9. What is the extension of java code files?
 - .js
 - .txt
 - .class
 - .java

(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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|--|----|
| 1. a) What are the differences in C++ and Java? | 5 |
| b) What are the differences in traditional and Java compiler? | 5 |
| 2. a) What are the characteristics of final keyword? | 5 |
| b) What are the characteristics of static keyword? | 5 |
| 3. a) What are the parts of a java function? | 5 |
| b) What is private, public and protected mean in object oriented programming ? | 5 |
| 4. a) What is a data type? Describe some java data types. | 5 |
| b) What is a java array? How many ways are there to create arrays? | 5 |
| 5. a) What are the characteristics of abstract keyword? | 5 |
| b) Is the while loop and do while loop same? If no, show the respective flowcharts. | 5 |
| 6. a) Draw the JVM architecture and explain in detail. | 6 |
| b) Write a simple java program to print "helloworld". | 4 |
| 7. a) In java, what is a byte code? How is it important for program execution? | 3 |
| b) What is switch case? Can we write a switch case using if-else as well? If yes, show by example. | 5 |
| c) How many types of functions are there in java? | 2 |
| 8. Explain the various parts of the program and also explain the generate output of program. | 10 |

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