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Roll No. ....

3rd Sem.

Branch : Artificial Intelligence & Machine Learning

Sub.: JAVA Technologies

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple choice Questions. All Questions are compulsory. (6x1=6)**

- Q.1 Who invented Java? (CO1)
- a) Bjarne stroustrup      b) James gosling
- c) Guido van rossum      d) Denis Ritchie
- Q.2 Which keyword is not a part of exception handling? (CO4)
- a) Try      b) Finally
- c) Thrown      d) Catch
- Q.3 How do you access the third element of an array named 'arr'? (CO1)
- a) arr[2]      b) arr[3]
- c) arr(2)      d) arr(3)
- Q.4 Which of these is used to perform all input & output operations in Java? (CO2)
- a) Variables      b) Class
- c) Streams      d) Methods

- Q.5 Which keyword must be used to inherit a class? (CO3)  
 a) Super                                      b) this  
 c) extent                                      d) extends
- Q.6 Thread priority in Java is? (CO4)  
 a) Integer                                      b) float  
 c) double                                      d) long

### SECTION-B

**Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)**

- Q.7 Is constructor inherited? (True/False) (CO3)
- Q.8 Name any one exception. (CO4)
- Q.9 What is the symbol of modulus operator? (CO1)
- Q.10 Which keyword is used to bring the program control out of loop? (CO2)
- Q.11 Is java case sensitive when dealing with identifiers? (True/False) (CO1)
- Q.12 Which character is used to give single line comments in Python? (CO1)

### SECTION-C

**Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)**

- Q.13 Explain switch statement with the help of an example. (CO1)

- Q.14 Why garbage collection is necessary? (CO2)
- Q.15 What do you mean by Package? Write its advantages also. (CO4)
- Q.16 Write the features of Java? (CO1)
- Q.17 What is method overloading? (CO3)
- Q.18 What is the difference between constructors and methods? (CO3)
- Q.19 Explain the use of try, catch and finally. (CO4)
- Q.20 Explain arithmetic and relational operators in detail. (CO1)
- Q.21 What is the purpose JIT? (CO2)
- Q.22 Differentiate process and thread. (CO4)

### SECTION-D

**Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)**

- Q.23 What are different data types in Java? (CO1)
- Q.24 What is object oriented paradigm? Explain in detail. (CO1)
- Q.25 Explain life cycle of thread. (CO4)