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IT201

Enrol. No. A230520448

[ET]

END SEMESTER EXAMINATION : APRIL-MAY 2022

JAVA PROGRAMMING

Time : 3 Hrs.

Maximum Marks : 60

Note: Attempt questions from all sections as directed.

SECTION – A (24 Marks)

Attempt any **four** questions out of five.

Each question carries 06 marks.

1. Explain thread life cycle with a neat diagram. Also explain thread priorities.
2. Explain the architecture of an applet with the help of an example.
3. Explain the following :
 - (a) Maven build Lifecycle (3)
 - (b) Project Object Model (3)

P.T.O.

4. Explain the importance of event handling mechanism in applet programming. What is delegation event model?
5. Write a program using constructors to demonstrate the following :
 - (a) To convert the lower case string to upper case. (3)
 - (b) To compare two strings. (3)

SECTION – B (20 Marks)

Attempt any two questions out of three.

Each question carries 10 marks.

6. Why synchronization is required in Multithreaded environment? Explain with the help of diagram.
7. Explain the exception handling model supported by JAVA. What is finally block? When and how is it used? Give suitable example.
8. Explain the types of annotations used in Java. Write a program to describe how we can create our own annotations.

SECTION – C
(Compulsory)

(16 Marks)

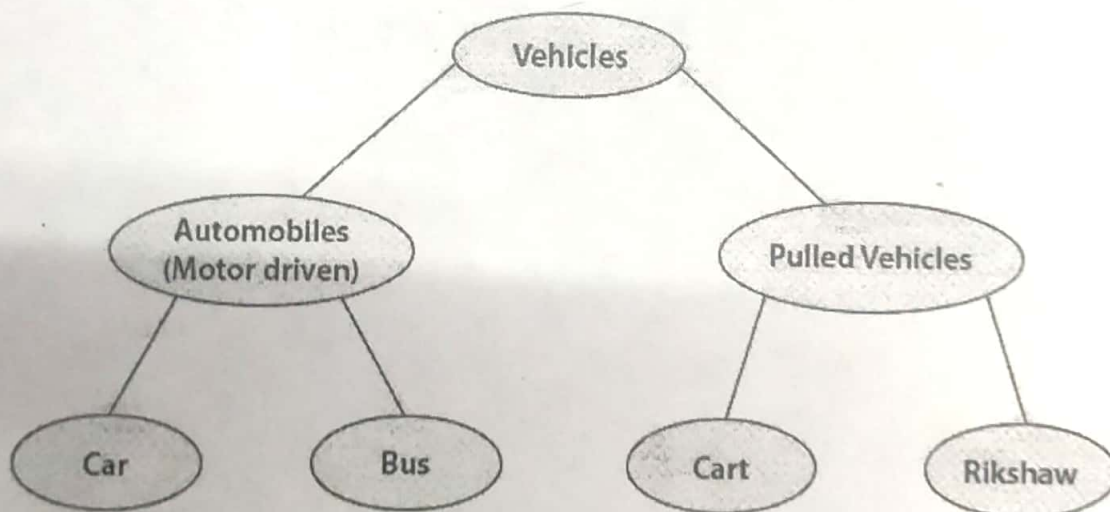
9. (a) Write a Java program by using `BufferedReader` class to prompt a user to input his/her name and then the output will be shown as an example below :

Hello <YourName>!

(8)

- (b) Create the following class hierarchy in your program. Make suitable assumptions for data members, constructors, methods and demonstrate the working of each class.

Inheritance in Java



(8)

(806)

(1000)