**COSEKE U LTD**

**Graduate Training Practical Test**

**Duration : 4hrs**

**SECTION A:**

**1. Nalubega is continuing to work on her Object-Oriented Program and is writing code for a car, truck, and bus. These items under the class called vehicles are referred to as \_\_\_\_\_**

1. methods
2. items
3. objects
4. Attributes

**2. Rubega is writing some Object-Oriented Program code for a vehicle which contains the attributes (manufacturer, color, and price), along with what she wants the vehicle to be able to do (start, drive, and park). This is known as a \_\_\_\_\_**

1. class
2. method
3. function
4. template

**3. Write an SQL query to get the student details whose name starts with A:**

**4. What is a Restful API?**

**5. How would you reduce the load time of a web application?**

**6. Which architectural designs are mostly used to web applications?**

**SECTION B:**

**1. The director of a Sema high school notices loss in revenue, He realizes lots of unrecovered debts because those who complete senior four don't pay yet they take their certificates. He suspects the director of studies to be taking bribes to issue those certificates out without completing payment. As a software developer, discover the exact problem, design a solution and outline steps on how you can help the director not to lose the money?**

**2. In your preferred language, design a simple rest API to store user information (**first name, last name and age**) into the database (**MySQL**) and Retrieve the information. Upload the code to GitHub, and make it public access, write your GitHub details below.**