ourdiu.com | Shared by Ferdosh Riyad

Quiz 1

Section: 66_K

Course code: CSE 221 **Course name: Object Oriented Programming**

Full marks: 15 **Time: 40 minutes**

1. Explain the concept of classes and objects in Object-Oriented Programming (OOP). How do they relate to each other, and why are they fundamental to OOP? Provide examples to illustrate your explanation. 4
2. Find out area of rectangle, triangle, and circle (Take values from user) 4
3. Create a class `Product` with the following:

Data Members:

- `title` – to store the title of the book
- `author` – to store the author's name
- `copiesAvailable` – to store the number of available copies

Methods:

1. `inputDetails()`
   → Ask the user to enter the book title, author name, and number of available copies using a `Scanner`.
2. `borrowBook()`
   → Ask the user how many copies they want to borrow.
   → Directly reduce the number of available copies (no need to check if enough copies are available).
   → Show how many copies were borrowed.
3. `displayBookDetails()`
   → Display the book title, author name, and remaining copies available.

Tasks:

1. Create **one Book object**
2. Call `inputDetails()` to input values
3. Call `displayBookDetails()`
4. Call `borrowBook()`
5. Call `displayBookDetails()` again to show updated available copies 7

ourdiu.com