

JK Lakshmipat University, Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY
End Term Examination, July 2021
B.Tech. CSE, Semester II

Subject: **OOP (CS1101)**

Roll No.....

Time: 2 hours	Max. Marks: 25
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Instructions to students:

1. All questions are compulsory.
2. Submit the handwritten solution through Teams.

Q.1 Some code snippet is given to you. This may be buggy or not. Look Carefully, Make changes according to sub questions. You can update class structure or syntax, but any word written in code should not be changed or deleted. You can only add.

```
1  class Book{
2      private String isbn;
3      private String author;
4      private String title;
5      int pages;
6      double price;
7      Book(String isbn){
8          this.isbn = isbn;
9      }
10 }
11 class PaperBook{
12     int length;
13     int breadth;
14     int height;
15 }
16 class EBook{
17     int sizeInKB;
18     String bookLink;
19 }
20 class App{
21     public static void main(String arg[]) {
22         EBook e1 = new EBook("67373829729");
23         /* Initialize all the applicable values here */
24         print_book_details(e1);
25     }
26 }
27
```

i). Initialize values for the Ebook e1 for the output same as (5 Marks).

```
Title : OOPs Ebook
ISBN : 67373829729
Author : Exam Author
Pages : 510
Size : 4560 KB
Link : http://examp.le/book.pdf
```

ii). create a PaperBook object and initialize it for the output same as (5 Marks).

```
Title : OOPs Paperbook
ISBN : 67373829739
Author : Exam Author
Pages : 510
Size (L x B x H): 45 x 20 x 5
```

write only one code for both the question.

Q.2. Your Salary is ₹XXXXX. You invest 10% of monthly income in Mutual Funds, 20% in your favourite stock, 40% in real-estate, remaining 30% you use for your daily lifestyle. If your lifestyle spending crosses 30% you can only use from real-estate budget. But if you consume less than 30% then you save it in your saving account.

WAP to calculate:

i). How much money did you invested in Real-Estate in 11 months? If you monthly spending was (in percentage) as following. Take any 5-digit salary from user. (5 Marks)

30
25
28
30
42
30
30
30
25
10
30

ii). How much money did you have in Mutual Funds and saving accounts in total? If the spending is same as above. (5 Marks)

Q.3 Write a program to find the radius of a circle which has the same area as the triangle with the sides (5cm, 7cm, 8 cm) have. (5 Marks)