Total	No.	of Q	uestions	:	5]
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SEAT No.:	
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PA-1027

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T.Y. B.Sc. (Computer Science)

CS - 355 : OBJECT ORIENTED PROGRAMMING USING JAVA - I

(2019 Pattern) (Semester - V)

Time: 2 Hours] [Max. Marks: 35

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- *Q1*) Attempt any EIGHT of the following: (out of ten)

 $[8 \times 1 = 8]$

- a) What is use of Javac?
- b) Give the name of any two wrapper classes.
- c) What is use of 'implements' keyword?
- d) List types of constructor.
- e) What is use of Array?
- f) Give the name of any two listeners.
- g) What is exception?
- h) Give the syntax of ends with() method?
- i) What is package?
-) What is use of new operator?
- Q2) Attempt any FOUR of the following. (Out of Five)

 $[4 \times 2 = 8]$

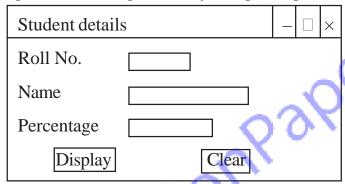
- a) 'When constructor of class will be called?' Comment.
- b) What is command line argument? Where they are stored in a program.

- What is Frame? Give its any two methods. c)
- d) Differentiate between method overloading and method overriding.
- Write any two access specifiers. e)

Q3) Attempt any two of the following. (Out of Three)

 $[2 \times 4 = 8]$

- Define an interface shape with abstract method area(). Inherit interface a) shape into the class traingle. Write a Java Program to calculate area of s.cor Triangle.
- b) Design the following screen by using swing.



Write a Java program to accept the details of student & display an console by clicking on Display button. Clear button should clear all the controls.

Write a Java Program to copy the contents form one file into another file. c) While copying, change the case of cell the alphabets & replace all the digital by '*'

Q4) Attempt any two of the following. (out of Three)

 $[2 \times 4 = 8]$

- Differentiate between AWT & Swing.
- Define user define exception zeronumber Exc. Write a Java program to b) accept a number from user. If it is zero then throw user define exception "Number is zero" otherwise calculate the sum of first & last digit of given number. (use Static Keyword).
- Write a Java program to accept n number from user & store only perfect c) numbers into array & display that array.

 $[1 \times 3 = 3]$

- a) Explain uses of final keyword with example.
- b) Define a class Emp with a member Eid and display() method, inherit EmP class into the Emp Name class, Emp Name class having a member Ename & display () method. Write a Java program to accept details of employee [Eid, Ename] & display it. (Use super keyword).

