

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
Third Semester B.Tech (minor) Degree Examination December 2020

**Course Code: CST281**

**Course Name: OBJECT ORIENTED PROGRAMMING**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions. Each question carries 3 marks*

Marks

- |    |   |     |
|----|---|-----|
| 1  | Define the term object in “Object Oriented Programming”. Give an example.     | (3) |
| 2  | Compare java application and java applet.                                     | (3) |
| 3  | Describe different integer data types in java.                                | (3) |
| 4  | Illustrate the use of <b>this</b> keyword with an example.                    | (3) |
| 5  | What is the use of <b>final</b> keyword?                                      | (3) |
| 6  | What is the concept of packages? List any 3 frequently used packages in java. | (3) |
| 7  | Discuss the statement “A user can create a custom exception”.                 | (3) |
| 8  | List the different stream classes of java.                                    | (3) |
| 9  | Illustrate the use of charAt( ) function in java.                             | (3) |
| 10 | What is JFrame?   | (3) |

**PART B**

*Answer any one question completely from each module. Each question carries 14 marks*

**Module 1**

- |    |   |     |
|----|---|-----|
| 11 | a) Discuss the advantages and disadvantages of OOD.                               | (6) |
|    | b) Illustrate any 4 buzzwords of java.  | (8) |
| 12 | a) Develop the use case model for word processor software such as Microsoft Word. | (8) |
|    | b) Explain the concept of inheritance, list the advantages of inheritance.        | (6) |

**Module 2**

- |    |  |      |
|----|--|------|
| 13 | a) Show the use of loop statements in java with examples.                                    | (12) |
|    | b) What do you mean by command line arguments?   | (2)  |
| 14 | a) Discuss the advantage of Vector over an array.  | (6)  |
|    | b) What is constructor? What are the different types of constructors, explain with examples. | (8)  |

**Module 3**

- 15 a) Show the usage of **super** keyword. (6)  
b) Differentiate between method overriding and method overloading. (8)
- 16 a) Explain the visibility of class members in java. (12)  
b) How an interface is created in java. (2)

**Module 4**

- 17 a) Show the usage of any 5 important String functions. (10)  
b) Write a program in java to read a paragraph from a text file and print to console. (4)
- 18 a) Write a program in java to reverse a string using the StringBuffer object. (5)  
b) Explain about byte stream classes and functions in java. (9)

**Module 5**

- 19 a) Explain the Delegation Event Model. (9)  
b) Explain about thread priority. (5)
- 20 a) Discuss the components and containers in Swing. (8)  
b) What is Runnable? Show its usage. (6)

\*\*\*\*\*