

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

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
**FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2017**

**Course Code: EE361**

**Course Name: OBJECT ORIENTED PROGRAMMING (EE)**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 5 marks.*

Marks

- |   |  |     |
|---|--|-----|
| 1 | What is meant by OOP? State the general form of a class.                       | (5) |
| 2 | What is the use of static method. Write an example?                            | (5) |
| 3 | What is the purpose of abstract class and methods in JAVA?                     | (5) |
| 4 | What is an Applet? How they differ from application programs?                  | (5) |
| 5 | How multithreading is implemented in JAVA? State the classes and methods used. | (5) |
| 6 | What is meant by thread synchronization? How it is implemented in JAVA?        | (5) |
| 7 | What is a database? Write SQL command to create a table.                       | (5) |
| 8 | What is JDBC API? What is the use of Class.forName() in JDBC?                  | (5) |

**PART B**

*Answer any two full questions, each carries 10 marks.*

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|----|---|------|
| 9  | a) Explain any three features of OOP.   | (6)  |
|    | b) Differentiate between private and protected access specifiers.   | (4)  |
| 10 | Write Java Program to define a class BOOK with sufficient variables and methods to initialise instance variables. | (10) |
| 11 | a) What is a package? Explain about any two built in packages in JAVA.  | (6)  |
|    | b) What is a parametrized constructor, write example.   | (4)  |

**PART C**

*Answer any two full questions, each carries 10 marks.*

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|----|--|-----|
| 12 | a) What is multiple inheritance? What feature of JAVA is used for its implementation? Explain.       | (6) |
|    | b) Define polymorphism. How can it be implemented in giving values to instance variables of a class? | (4) |
| 13 | a) What is a Stream? Explain about the different streams and its uses.                               | (6) |

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- b) What is object cloning? Which method is used to implement cloning? (4)
- 14 a) What is an <applet> tag and what are its attributes? (6)
- b) Write java applet code to display the string "HELLO". (4)

**PART D**

*Answer any two full questions, each carries 10 marks.*

- 15 a) Which interface in Java is used to create a thread? Write an example code creating a thread. (6)
- b) What are the methods used for stopping and blocking a thread? (4)
- 16 a) Write a java program to check whether a file exists or not. (6)
- b) What are the components of JDBC? (4)
- 17 a) Write the steps involved in creating a JDBC application. (6)
- b) Write java code for establishing connection to a database using JDBC. (4)

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