

**(3005PJV15)**

B.C.A. DEGREE (CBCS) EXAMINATION,  
OCTOBER/NOVEMBER 2019.

(Examination at the end of Third Semester)

Part II

PROGRAMMING WITH JAVA

(Regulation 2015-16)

Time : Three hours

Maximum : 75 marks

SECTION A – (5 × 5 = 25 marks)

Answer any FIVE of the following questions.

1. Explain basic concepts of object oriented programming.
2. Explain the procedure of adding variables to the class with an example.
3. Explain the conditional operator in java with example.
4. What is Abstract class? Explain.
5. Explain about constructor in java with example.
6. Explain single dimension array with example.

7. Explain Thread priority in java with example.

8. Explain output stream class.

SECTION B – (5 × 10 = 50 marks)

Answer the following questions.

9. (a) Describe the structure of java programming and explain some features.

Or

(b) What is a variable? Explain the concept of scope of variables in Java.

10. (a) Explain decision making statements in java with example.

Or

(b) Explain the concept of method overloading in java with example.

11. (a) Write about wrapper classes in Java.

Or

(b) Define Inheritance. Explain single inheritance with example.

12. (a) Explain life cycle of Thread.

Or

(b) What is an Exception? Illustrate the method of handling exceptions.

13. (a) What is a package? How to create a package in java and explain with an example?

Or

(b) Explain character stream classes with example.

**(3005DBM15)**

B.C.A. DEGREE (CBCS) EXAMINATION,  
OCTOBER/NOVEMBER 2019.

(Examination at the end of Third Semester)

Part II

DBMS

(Regulation 2015-16)

Time : Three hours

Maximum : 75 marks

SECTION A – (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What is database management system? Explain its advantages.
2. Why are data models important? Explain.
3. What is database integrity? Explain integrity rules in RDBMS.
4. Differentiate normalization and denormalization.
5. Discuss joins and types of joins with examples.
6. What is the difference between sub query and correlated query?
7. Write about transaction.
8. How check points are used in database recovery?

SECTION B – (5 × 10 = 50 marks)

Answer ALL of the following questions.

UNIT I

9. (a) Define file. Explain about file system in DBMS.

Or

- (b) What is data abstraction? Explain different levels of abstraction.

UNIT II

10. (a) Discuss codd relational database rules in DBMS.

Or

- (b) Why do we use relationships in database? Explain the types of relationships.

UNIT III

11. (a) Explain 1NF, 2NF and 3NF with examples.

Or

- (b) Explain in detail the higher level normal forms.

UNIT IV

12. (a) Explain the structure of PL/SQL program.

Or

- (b) Explain data manipulation commands with examples.

UNIT V

13. (a) Discuss about concurrency control with time stamping methods.

Or

- (b) Briefly explain the properties of transaction.