

(3005PJV15)

**B.C.A. DEGREE (CBCS) EXAMINATION,
OCTOBER/NOVEMBER 2017.**

(Examination at the end of Third Semester)

Part – II

PROGRAMMING WITH JAVA

(Regulation 2015 – 2016)

Time : Three hours

Maximum : 75 marks

PART A – (5 × 5 = 25 marks)

Answer any FIVE of the following questions.

1. Explain briefly about basic concepts of object oriented programming.
2. Explain about command Line arguments. Write a Java program to illustrate command line arguments.
3. Explain about constructor with example.
4. What is Looping? Explain looping statements in brief.
5. Write about on Dimential Array with example.

6. Explain Thread Priority with example.
7. What are the compile time error and Run Time error?
8. Explain Input stream classes.

12. (a) What is a Thread? Explain the life cycle of a Thread.

Or

- (b) Explain Exception Handling mechanism in Java.

PART B – (5 × 10 = 50 marks)

Answer the following questions.

9. (a) List the data types used in Java. Give examples.

Or

- (b) Describe the structure of Java Programming and explain some features.

10. (a) Write about various Decision making statements available in Java.

Or

- (b) Compare and contrast overloading and overriding methods in Java.

11. (a) Explain different forms of Inheritance with examples in Java.

Or

- (b) Write the concept of VECTOR with example.

13. (a) Explain Java API packages.

Or

- (b) What are local and remote Applets? Write some applications of Applets.

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Part II

DBMS

(Regulation 2015-2016)

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the role of DBA.
2. Discuss the importance of data model.
3. Explain different keys in DBMS.
4. Define table and need for normalization in DBMS.
5. Explain about selection and projection in DBMS.
6. Write short note procedure and triggers.
7. Briefly explain about transactions in DBMS.
8. Discuss about serializability.

SECTION B — (5 × 10 = 50 marks)

UNIT IV

Answer ALL of the following questions.

UNIT I

9. (a) What is DBMS? Explain about Database Management system in detail.

Or

- (b) Explain about basic building blocks of data model.

UNIT II

10. (a) Explain about data dictionary and relationships between data keys.

Or

- (b) Explain the development of ER-diagram.

UNIT III

11. (a) Discuss about normalization.

Or

- (b) Explain about BCNF and first normal form.

12. (a) Briefly explain about advanced database design.

Or

- (b) Describe with example about sub queries, co-related Queries and SQL functions.

UNIT V

13. (a) Briefly explain about lock based protocols.

Or

- (b) Explain in detail database recovery management.

- (b) Mr. Pride acquired a machinery for 1,50,000/- on January 2015, and spent 20,000/- for installation. It has a service life of 5 yrs and provides depreciation on diminishing balance method @ 10%. Prepare machinery account for 5 years.

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UNIT III

11. (a) Explain the finance functions in detail.

Or

- (b) What are the objectives of financial management?

UNIT IV

12. (a) What do you mean by working capital? Explain the determinants of working capital.

Or

- (b) Explain the management of receivables.

UNIT V

13. (a) What do you mean by merchant Banking? Explain its role.

Or

- (b) Explain different long-term finances available in Indian capital market.

Part II

ACCOUNTS AND FINANCIAL MANAGEMENT

(Regulation 2015-2016)

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE of the following.

1. Explain the objectives of accounting.
2. What are causes of depreciation?
3. Explain the goal of profit maximisation.
4. What are the different types of working capital?
5. What are the three motives of holding cash?
6. Explain the features of a primary market.
7. Differentiate capital and revenue expenditures.
8. Explain Balanced/optimum working capital.

SECTION B — (5 × 10 = 50 marks)

UNIT II

Answer FIVE questions choosing ONE from each Unit.

UNIT I

9. (a) Journalise the following

January
2016

1.	Started business with cash	Rs. 10,000
4.	Purchases	2,000
8	Sales	4,000
10	Purchase returns	1,500
15	Paid salaries	2,000
20	Commission received	1,500
25	Purchased machinery	3,500

Or

(b) Pass the Journal entries prepare the ledger accounts for the following

1	Started business with cash	Rs. 5,000
2	Purchases	2,500
3	Sales	1,500
4	Paid rent	2,000
5	Sales returns	500
6	Purchased goods on credit from ram	800
7	Received cash from Ram	500
8	Discount received	20

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10. (a) Prepare final accounts from the following

Debit	Balances	Credit	Balance
Plant and Machinery	20,000	Capital	80,000
Wages	34,500	Creditors	44,650
Salaries	15,430	Loan	15,000
Furniture	10,000	Purchase Returns	1,740
Freight	1,860	Sales	2,50,850
Buildings	26,140	Provision for bad debts	2,000
Insurance	13,750		
Goodwill	25,000		
General Expenses	8,200		
Fuel and power	1,280		
Debtors	78,200		
Factory lighting	950		
Opening stock	34,200		
Motor car	12,000		
Purchases	1,02,000		
Sales Returns	3,100		
Bad debts	1,400		
Interest	400		
Cash at bank	4,200		
Cash in hand	1,120		

Adjustments

- (i) Closing stock 20,000
- (ii) Outstanding salaries 2,500/-
- (iii) Depreciate building by 10%

Or

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