

20C4201 – HA

II B.Com. CA DEGREE EXAMINATION, MAY 2024.

Fourth Semester

Course 4E: OBJECT ORIENTED PROGRAMMING WITH JAVA

Common for B.Com(CA), B.Sc(CA), B.A(CA) Syllabus

Time : 3 Hours

Max. Marks : 75

PART — I

SECTION — A

1. Multiple choice questions :

(10 × 1 = 10 Marks)

- (a) Which of the following is not oops concept in Java?
- (i) Inheritance (ii) Encapsulation
(iii) Polymorphism (iv) Compilation
- (b) What is the size of float and double in Java?
- (i) 32 and 64 (ii) 32 and 32
(iii) 64 and 64 (iv) 64 and 64
- (c) Which of the following is used with the switch statement?
- (i) Continue (ii) Exit
(iii) break (iv) do
- (d) How do you declare an array in Java?
- (i) int [] arr; (ii) int arr;
(iii) char ch; (iv) Array < int > arr;
- (e) A Java class can have _____.
- (i) Fields and methods
(ii) Constructors and Blocks
(iii) Nested class and Interface
(iv) All of above
- (f) A variable which does not get memory and compilation time is called?
- (i) Static variable (ii) Local variable
(iii) Instance variable (iv) None of these
- (g) Which of these methods is used to write into a file?
- (i) Put () (ii) Put File ()
(iii) Write () (iv) Write File ()

Turn Over

- (h) How can we get the size of specified File?
 (i) Capacity (path) (ii) Size (path)
 (iii) Length (path) (iv) Path . size ()
- (i) Which of the following package Exception class exist?
 (i) Java . Util (ii) Java . file
 (iii) Java . io (iv) Java . Lang
- (j) Which of these classes is used to define exceptions?
 (i) Exception (ii) Throwable
 (iii) Abstract (iv) System

2. Fill in the Blanks : (5 × 1 = 5 Marks)
- (a) The output of the Java compiler is known as _____.
- (b) A class inherits state and behaviour (method) from its _____.
- (c) A _____ is the technique of binding both data and functions together.
- (d) _____ is the thread class.
- (e) _____ Key words are used in exception handling ?

SECTION — B

Answer any FIVE of the following (5 × 2 = 10 Marks)

3. What is class?
4. What is polymorphism?
5. Types for variables in Java.
6. What are static methods?
7. What are Thread classes?
8. What is Final in Java?
9. What is the need of multiple catch?
10. What is this key word?

PART – II

Answer ALL questions. (5 × 10 = 50 Marks)

11. (a) Explain about features of object oriented programming in Java.
 Or
 (b) Write about scanner class with an example.

12. (a) Explain Java looping statements.
Or
(b) Explain array in detail with a Java programming example.
13. (a) Explain class concept with example programs.
Or
(b) Explain method overloading with an example and Abstract class.
14. (a) Explain File Handling Operations in Java.
Or
(b) Explain Packages in Java.
15. (a) Explain Types of Exceptions and Exception Handling in Java.
Or
(b) Explain about multi threading in Java.
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20C4303AA

B.Com. (CA) DEGREE EXAMINATION, MAY 2024.

Fourth Semester

DATABASE MANAGEMENT SYSTEM

Time : 3 Hours

Max. Marks : 75

PART — A

I. Multiple Choice Questions (10 × 1 = 10)

1. Which of the following is not a function of the database?
 - (a) Managing stored data
 - (b) Manipulating data
 - (c) Security for stored data
 - (d) Analysing code
2. Which of the following refers to the level of data abstraction that describes exactly how the data actually stored?
 - (a) Conceptual Level
 - (b) Physical Level
 - (c) File Level
 - (d) Logical Level
3. To which of the following the term "DBA" referred?
 - (a) Data Bank Administrator
 - (b) Database Administrator
 - (c) Data Administrator
 - (d) None of the above
4. Which type of data can be stored in the database?
 - (a) Image oriented data
 - (b) Text, files containing data
 - (c) Data in the form of audio or video
 - (d) All of the above
5. Which of the following is a top-down approach in which the entity's higher level can be divided into two lower sub-entities?
 - (a) Aggregation
 - (b) Generalization
 - (c) Specialization
 - (d) All of the above
6. Which of the following gives a logical structure of the database graphically?
 - (a) Entity-relationship diagram
 - (b) Entity diagram
 - (c) Database diagram
 - (d) Architectural representation

Turn Over

7. Rows of a relation are known as the _____
(a) Degree (b) Tuples
(c) Entity (d) All of the above
8. Which of the following refers to the number of tuples in a relation?
(a) Entity (b) Column
(c) Cardinality (d) None of the above
9. Which of the following commands is used to save any transaction permanently into the database?
(a) Commit (b) Rollback
(c) Savepoint (d) None of the above
10. Which of the following feature is provided by PL/SQL to handle the exceptions occurred in the PL/SQL block?
(a) Error Handling Block (b) Error Removing Block
(c) Exception Handling Block (d) Exception Removing Block

II. Fill in the Blanks.

(5 × 1 = 5)

11. The relational model is based on the core concept of _____
12. _____ is a raw and unorganized fact that requires processing to make it meaningful.
13. A person who manages and controls the overall DBMS is called a _____
14. A Record is also known as a _____
15. _____ refer to general rules and instructions that help to design the database and to use a database management system

III. Answer any FIVE of the following questions.

(5 × 2 = 10 Marks)

16. Data and Information
17. Network Model
18. Specialization in ER-Model
19. Relational Integrity
20. Example for Selection Operation
21. Literals in PL/SQL
22. Package definition in PL/SQL
23. Exception definition in PL/SQL

PART – B

IV. Answer ALL the questions. Each carries 10 marks.

(5 × 10 = 50 Marks)

24. (a) What are the Objectives of DBMS?

Or

(b) What are the different types of Data Base Management Systems?

25. (a) What are the drawbacks of File based Systems?

Or

(b) What are the functions of DBA?

26. (a) What are CODD's Rules? Explain each one.

Or

(b) Write an examples for classification of entity sets and attribute sets?

27. (a) Write a syntax and examples for DDL Commands in SQL?

Or

(b) What are different types of constraints?

28. (a) Write an examples for Control structures in PL/SQL?

Or

(b) Explain different types of Triggers