

Reg. No. :

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Question Paper Code : 87222

M.C.A. DEGREE EXAMINATION, FEBRUARY/MARCH 2013.

Third Semester

113009 – JAVA PROGRAMMING

(All Regulations)

Time : Three hours

Maximum : 100 marks

Wherever relevant code snippet has to be provided.

Codes should bear necessary comments.

PART A — (5 × 4 = 20 marks)

Answer any FIVE questions.

1. Brief any two features of Java language which you consider interesting.
2. Bring out the importance of inheritance with the help of an example.
3. State the significance of 'static keyword and explain with necessary code how you could access the static variables and static methods of a class.
4. Explain with an example how you could achieve 'multiple inheritance' in Java.
5. Is the context switch that Java does among threads is same as Multiprocessing Operating systems do among processes — brief.
6. Whether Java supports bidirectional stream or not — explain.
7. What is a database transaction? How does it help in ensuring data consistency?
8. What are the unique features of 'Border Layout'?

PART B — (4 × 16 = 64 marks)

Answer ALL questions.

9. (a) Discuss in detail the salient features of Java language.

Or

- (b) Discuss in detail how java enforces accessing restrictions over its members and resolves name space collision.

10. (a) (i) What do you mean by the term 'backtracking' in handling Java exceptions? Give an example. (8)
(ii) Write a program to read 20 marks and store them in an array. Define your own exception. Make use of your exception when a mark is <0 or a mark is >100. (8)

Or

- (b) (i) Which methods are useful in effecting inter-thread communication? Discuss them in detail. (8)
(ii) What do you mean by synchronization? With an example state why do we need it? (8)
11. (a) (i) What is serialization and de-serialization? Explain why it is required. (8)
(ii) Briefly explain the use of Stream Tokenizer class? (8)

Or

- (b) With necessary example codes discuss at least four algorithms defined by Collection class.
12. (a) (i) Give the syntax of Applet tag. Explain its constituents. (8)
(ii) Write an applet to receive the value of the parameter message from the html file and display it in centered form. Explain your code. (8)

Or

- (b) (i) What is the main advantage of using Prepared Statement class of Java? Explain with an example. (8)
(ii) Write a program to list the contents of the fields name, ID, phone number and salary from the table 'emp'. (8)

PART C – (1 × 16 = 16 marks)

Case Study – Compulsory

13. A Private Caterer plans to automate its Meal Account Management System; The company provides three different meals: Veg, Non-veg and Combo.

The Manager should have the options to:

- > Check the availability of different types of Meals with price.
- > Process orders of meals with Type of meals and quantity and Print the receipt (on screen).
- > Update stock of meals and collection amount when any meal is sold.
- > Print the total money collected with category wise details of sales.

Question:

Give the Architectural representation of this system and then work out for any three of the bulleted item.

Reg. No. :

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Question Paper Code : 71323

M.C.A. DEGREE EXAMINATION, AUGUST 2012.

Third Semester

113009 — JAVA PROGRAMMING

(All Regulations)

Time : Three hours

Maximum : 100 marks

PART A — (5 × 4 = 20 marks)

Answer any FIVE questions.

1. Define the structure of java program.
2. What is Java virtual machine? State its purpose.
3. Write about modifiers
4. Write the significance of packages.
5. Define exception. List the different exceptions.
6. Write the different states in a thread.
7. What is character extraction?
8. What are Java Collections?

PART B — (4 × 16 = 64 marks)

Answer ALL questions.

9. (a) Explain in detail about Java operators and expressions with an examples.

Or

- (b) Explain how to define, extend, implement and access an interface.

10. (a) Explain the Exception handling mechanisms in detail

Or

- (b) Describe in detail about thread priorities and thread scheduling.

11. (a) Explain the concept of I/O streams and different streams including character stream, byte stream and file stream.

Or

- (b) Discuss about the applet life cycle and passing parameters to applets. Write a code to demonstrate it.

12. (a) Explain in detail about JDBC architecture

Or

- (b) Explain about AWT and AWT controls.

PART C — (1 × 16 = 16 marks)

Case Study – Compulsory.

13. Explain string class and its various methods. Write a java program to demonstrate any 8 string operations. (16)
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