MCA — CS (31)

2019

Time : 3 hours

Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Sections as directed.

Section – A

(Objective Type Questions)

1. Choose the correct answer of the following questions : $2 \times 10 = 20$

(a) Which of the following is not a Exception in Java ?

(i) Arithmetic Exception

(ii) Null Pointer Exception

(iii) Array out of Bound Exception

(iv) Logical Exception ✓

(b) The _____ class creates and maintains a buffer for an input stream.

(i) Common Buffered Input Stream

(ii) Buffered Stream

(iii) Input Stream ✗

(iv) Buffered Input Stream ✓

(c) To execute a statement in JDBC, we invoke method :

(i) Execute Update Method ✓

(ii) Execute Rel Method

(iii) Execute Stmt Method

(iv) Execute Conn Method

(d) In RMI Architecture which layer Intercepts method calls made by the client/redirects these calles to a remote RMI service ?

(i) Stub and Skeleton Layer ✓

(ii) Application Layer

(iii) Remote Reference Layer

(iv) Transport Layer

(e) Which object of Http Session can be used to view and manipulate information about a session ?

(i) Session identifier

(ii) Creation time

(iii) Last accessed time

(iv) All mentioned above

(f) Which of these class is used to encapsulate IP address and DNS ?

(i) Datagram Packet

(ii) URL

(iii) Inet Address

(iv) Content Handler

(g) Which of the following is not an Enterprise Beans type ?

(i) Doubleton

(ii) Singleton

(iii) Stateful

(iv) Stateless

(h) Which services are provided to EJB components by the EJB container ?

(i) Transaction support

(ii) Persistence support

(iii) Naming support

(iv) All mentioned above

(i) Which is not a JSP directive ?

(i) Include

(ii) Page

(iii) Export

(iv) Use Bean

(j) Which one is the correct order of phases in JSP life cycle ?

(i) Initialization, Cleanup, Compilation, Execution

(ii) Initialization, Compilation, Cleanup, Execution

(iii) Compilation, Initialization, Execution, Cleanup

(iv) Cleanup, Compilation, Initialization, Execution

Section – B

(Short-answer Type Questions)

Answer any **four** questions from the following :

$5 \times 4 = 20$

2. Differentiate between Swing and AWT.

3. What do you mean by layout ? Explain briefly.

4. What are the steps to connect to the database in java ?

5. List and explain the methods involved in the servlet life cycle.

6. Write short note on Message Driven Bean.

7. What are the key steps in reading from a URL connection ?

Section – C

(Long-answer Type Questions)

Answer any **three** questions of the following :

$10 \times 3 = 30$

8. What are the different category of JDBC drivers ? Explain.

9. What is thread ? Explain thread life cycle in details.

10. What do you mean by socket programming ? Explain various methods associated with TCP and UDP.

11. What is java bean ? What are the key concepts of java bean ? List out the advantages of java bean.

12. Explain the different types of JSP tags with an example for each.

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