

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTH SEMESTER – APRIL 2022

18PCA4ES03 – ADVANCED JAVA PROGRAMMING

Date: 23-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART – A

Q. No

Answer ALL Questions

(10 x 2 = 20 Marks)

- 1 Define HTTP Protocol.
- 2 What is Web Container?
- 3 State the term Servlets.
- 4 What are the various types of wrapper classes in servlets?
- 5 What is JSF?
- 6 What is Tag Library?
- 7 State the term MDB.
- 8 What is EJB interceptors?
- 9 What are the various types of Entity Relationship in JPA?
- 10 State the term JPQL.

PART – B

Answer ALL Questions

(5 x 8 = 40 Marks)

- 11 (a) Explain the features of Java EE Platform in detail.
or
(b) Describe the concept of MVC architecture in detail with neat illustration.
- 12 (a) Explain the life cycle of servlets with neat diagram.
or
(b) Describe the concept of session tracking mechanisms in detail.
- 13 (a) Explain the UI components of java server faces in detail.
or
(b) Describe the concepts involved in configuring JSF applications in detail.
- 14 (a) Explain the fundamentals of Enterprise Java Applications (EJB) in detail.
or
(b) Describe the lifecycle of Enterprise Java Applications (EJB) Interceptors in detail.
- 15 (a) State and explain the lifecycle of entity in detail.
or
(b) Describe the concept of Entity Inheritance in detail.

PART – C

Answer any TWO Questions

(2 x 20 = 40 Marks)

- 16 (a) Explain the JDBC architecture in detail with neat illustration.
(b) Describe the concept of HttpServletRequest and HttpServletResponse in detail.
- 17 (a) Describe the architecture of Java Server Faces with neat illustration.
(b) Explain the architecture of Enterprise Java Applications (EJB) in detail.
- 18 (a) State and explain the life cycle of Message Driven Bean in detail.
(b) Describe the Java Persistence Query Language (JPQL) functions in detail.

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