



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2022

PCS1MC01 – ADVANCED JAVA PROGRAMMING

Date: 23-11-2022

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION - A

Answer ALL the Questions

1 Answer the following (5 x 1 = 5)			
a)	Define :Web Container	K1	CO1
b)	Differentiate Servlet Request and Response.	K1	CO1
c)	What is the use of JSTL?	K1	CO1
d)	Define :Session Bean.	K1	CO1
e)	Mention the use of JPQL functions.	K1	CO1
2 Fill in the blanks (5 x 1 = 5)			
a)	Enterprise application run on many servers seamlessly.	K2	CO1
b)	Servlet used to create dynamic web applications.	K2	CO1
c)	JSP technology is similar to ----- technology	K2	CO1
d)	EJB concept is based on ----- computing.	K2	CO1
e)	JPQL used to create queries against ----- to store in a relational database	K2	CO1

SECTION - B

Answer any THREE of the following in 500 words (3 x 10 = 30)			
3	Explain about features of J2EE.	K3	CO2
4	Explain about servlet features.	K3	CO2
5	Illustrate the features of tag library	K3	CO2
6	Illustrate about the different types of bean.	K3	CO2
7	Explain about entity relation types.	K3	CO2

SECTION - C

Answer any TWO of the following in 500 words (2 x 12.5 = 25)			
8	Explain in detail about servlet lifecycle.	K4	CO3
9	Explain about EJB Architecture with a neat diagram.	K4	CO3
10	Analyze the features of JSP.	K4	CO3
11	Elaborate the java persistence API	K4	CO3

SECTION - D

Answer any ONE of the following in 1000 words

(1 x 15 = 15)

12	Evaluate the steps of Java Database Connectivity.	K5	CO4
13	Evaluate and explain about JSP life cycle.	K5	CO4

SECTION - E

Answer any ONE of the following in 1000 words

(1 x 20 = 20)

14	Construct the application form to perform addition operation using servlet and display the result in the webpage.	K6	CO5
15	Develop and explain about retrieving the data from oracle table using Java Database Connectivity.	K6	CO5