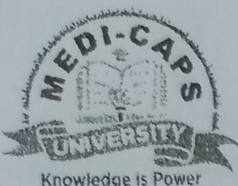


Total No. of Questions: 3

Enrollment No. EW21C304039



Faculty of Engineering

Mid Sem I Examination March - 2023

CS3CO37 Advanced Java Programming

Programme: B.Tech.

Branch/Specialisation: CSE

Duration: 1.5 Hrs.

Maximum Marks: 30

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

	Marks	BL	CO	PO	PSO
Q.1 i. Which of the following cannot be 'Type parameterized'?	1	BL1	CO1	PO2	
• a) Overloaded Methods					
b) Generic methods					
c) Class methods					
d) Overriding methods					
ii. Which of this type of parameters is used for a generic class to return and accept any type of object?	1	BL1	CO1	PO2	
a) K					
b) N					
• c) T					
d) V					
iii. What is meant by the term generics?	1	BL1	CO1	PO1	
a) Class					
b) Structure					
c) Interface					
d) Parameterized types					
iv. Servlet are used to program which component in a web application?	1	BL2	CO2	PO4	
a) client					
b) server					
c) tomcat					
d) applet					

- v. Which of the following is true about servlets?
- a) Servlets execute within the address space of web server
 - b) Servlets are platform-independent because they are written in java
 - c) Servlets can use the full functionality of the Java class libraries
 - d) Servlets execute within the address space of web server, platform independent and uses the functionality of java class libraries

1 BL2 CO2 PO1

- vi. What type of protocol is HTTP?
- a) stateless
 - b) stateful
 - c) transfer protocol
 - d) information protocol

1 BL2 CO2 PO1

- Q.2 i. Explain the term Wildcards.
 ii. Define Generic class.
 iii. Define Lambda Expressions.
 iv. Differentiate between Upper bounded and lower bounded wildcards
- OR v. How to insert and delete elements from a LinkedList.

2 BL1 CO1 PO1

2 BL1 CO1 PO1

3 BL1 CO1 PO1

5 BL1 CO1 PO2

5 BL1 CO1 PO2

- Q.3 i. What do you mean by web application?
 ii. Define any three HTTP methods.
 iii. Explain MVC design Pattern with example.
 OR iv. Explain servlet Listeners.

2 BL2 CO2 PO1

4 BL2 CO2 PO1

6 BL2 CO2 PO2

6 BL2 CO2 PO3

$$3 + 1 + 2 + 2 +$$

$$3 + 2 + 4 + 4$$