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## G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



## PG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2023 and later)

## PROGRAMME AND BRANCH: M.Sc., COMPUTER SCIENCE

| SEM | CATEGORY | COMPONENT | COURSE CODE | COURSE TITLE                 |
|-----|----------|-----------|-------------|------------------------------|
| II  | PART-III | CORE-6    | P23CS206    | ADVANCED JAVA<br>PROGRAMMING |

Date & Session: 28.04.2025/AN Time: 3 hours Maximum: 75 Marks Bloom's K-level Outcome Course Q. SECTION – A  $(10 \times 1 = 10 \text{ Marks})$ No. Answer ALL Questions. CO1 **K**1 Java was developed by 1. a) Bjarne Stroustrup b) James Gosling c) Dennis Ritchie d) Guido Van Rossum In Java \_\_\_\_\_programming provides facility to share data between K2 CO1 2. different computing devices. a) Socket b) Packet c) Network d) Protocol CO<sub>2</sub> K1 \_\_\_\_ is an API that provides a mechanism to create 3. distributed application in java. a) RMT b) RMC c) RMI d) RME is an object, acts as a gateway for the server side object. CO<sub>2</sub> K2 4. The a) Stub b) Marshal c) Socket d) Skeleton K1 The interface which is a sub interface of Statement that allows CO3 5. recompilation of SQL queries is called\_ a) Prepared Statement b) Statement c) Transaction d) Connection CO3 K2 6. This is a specification that defines a standard way to map Java objects to relational databases is called a) Spring data b) Java Persistence API c) Object-Relationship Mapping d) Java Database Connectivity CO<sub>4</sub> K1 7. CGI Stands for. a) Computer Generated Imagery b) Computer Generated Image c) Common Generated Imagery d) Common Generated Image CO4 K2 8. \_ in JSPs is used to output any data on the generated page. b) Directives a) Comment c) Expressions d) Scriptlets CO<sub>5</sub> K1 9. Java Swing Components are\_ a) Platform-Dependent b) Heavyweight c) Platform-Access d) Platform-Independent K2 The is used to develop web-based Applications. CO<sub>5</sub> 10. a) Core Java b) Advanced Java c) Java d) None of the above.

| Course<br>Outcome | Bloom's<br>K-level | Q.<br>No. | $\frac{\text{SECTION} - B \text{ (5 X 5 = 25 Marks)}}{\text{Answer } \frac{\text{ALL Questions choosing either (a) or (b)}}$ |
|-------------------|--------------------|-----------|--|
| CO1               | K2                 | 11a.      | Summarize the features of Java.  |
| 201               | ***                |           | (OR)   |
| CO1               | K2                 | 11b.      | Classify and explain the various Java Networking terminologies.  |
| CO2               | K2                 | 12a.      | Discuss about Service-Oriented architecture.   |
|                   |                    |           | (OR)   |
| CO2               | K2                 | 12b.      | Describe the various aspects need to be considered when defining remote  |
|                   |                    |           | objects.   |
| CO3               | КЗ                 | 13a.      | Construct JDBC architecture with its components and explain it.  |
|                   |                    |           | (OR)   |
| CO3               | КЗ                 | 13b.      | Identify the use of Web container to handle the request.   |
| CO4               | КЗ                 | 14a.      | Write a servlet program that simply creates a table of all the headers it  |
|                   |                    |           | receives, along with their associated values. It also prints out the three   |
|                   |                    |           | components of the main request line (method, URI, and protocol).   |
| CO4               | КЗ                 | 14b.      | (OR)   |
|                   |                    |           | Construct the structure of a JSP Page.   |
| CO5               | K4                 | 15a.      | Define Java swing and differentiate between Java AWT and Java Swing.   |
|                   |                    |           | (OR)   |
| CO5               | K4                 | 15b.      | Analyze the concept of advanced java.  |

| Course<br>Outcome | Bloom's<br>K-level | Q.<br>No | $\frac{\text{SECTION} - C}{\text{All Questions choosing either (a) or (b)}}$ Answer ALL Questions choosing either (a) or (b) |
|-------------------|--------------------|----------|--|
| CO1               | K4                 | 16a.     | Categorize the two methods for creating a thread and explain it.   |
|                   |                    |          | (OR)   |
| CO1               | K4                 | 16b.     | Classify the various applications of Multimedia.   |
| CO2               | K5                 | 17a.     | Discuss about the working of RMI.  |
| 000               |                    | 4        | (OR)   |
| CO2               | K5                 | 17b.     | How will you compile and run the code in Remote interface? Explain it.   |
| CO3               | K5                 | 18a.     | Discuss the Seven steps for JDBC standard Connectivity and Explain it.   |
|                   |                    |          | (OR)   |
| CO3               | K5                 | 18b.     | Demonstrate the importance of HTML and HTTP in creating java web application.  |
| CO4               | K5                 | 19a.     | Assess the anatomy of a servlet.   |
|                   |                    |          | (OR)   |
| CO4               | K5                 | 19b.     | Discuss about JSP directives and its types.  |
| CO5               | К6                 | 20a.     | Discuss the steps for creating JAR files using eclipse IDE.  |
|                   |                    |          | (OR)   |
| CO5               | К6                 | 20b.     | Bring out the importance of Internalization and localization in developing an  |
|                   |                    |          | application and display messages, currencies according to the specific   |
|                   |                    |          | region or language.  |