Internal Assesment Test - I

| Sub: | **Advanced Java and J2EE** | | | | | | Code: | | 17CS553 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date: | 7 /9/2019 | Duration: | 90 mins | Max Marks: | 50 | Sem: | V | Branch: | ISE | |

Answer Any FIVE FULL Questions

| | | Marks | OBE | |
|---|---|---|---|---|
| | | | CO | RBT |
| 1 (a) | What is string in Java? Write a java program that demonstrates any four constructors of string class. | [10] | CO3 | L2 |
| 2 (a) | Explain how to modify the string using following methods substring( ) ii) concat( ) iii) replace( ) iv) trim( ) | [10] | CO3 | L2 |
| 3 (a) | Explain the following StringBuffer methods with an example insert( ) ii) append( ) iii)delete ( ) iv) reverse v) capacity | [10] | CO3 | L2 |
| 4( a) | Differentiate between equals and = = with respect to string comparison | [05] | CO3 | L3 |
| 4 (b) | Write a program to remove duplicate characters in a given string and display new string without any duplicates | [05] | CO3 | L3 |
| 5 (a) | What are database drivers? Explain different JDBC driver types | [10] | CO5 | L3 |
| 6 a) | Describe various steps of JDBC with code snippets | [10] | CO5 | L3 |
| 7 a) | Explain with example<br>    i)    Callable statement object<br><br>    ii)    Prepared statement object | [10] | CO5 | L3 |
| 8 a) | Explain the following character extraction methods chatAt( ) and  tocharArray( ) | [04] | CO3 | L2 |
| b) | Explain the following methods with suitable example i)startsWith() & endsWith() ii) compareTo() iii) indexOf() | [06] | CO3 | L2 |

Name of the course : **Advanced Java and J2EE**          Sub Code : 17CS553
Name of the Faculty/s : Mrs. Shilpa Pande          Sem & Sec : 5<sup>th</sup>

| | Course Outcomes | Modules covered | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 | PSO4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | Interpret the need for advanced JAVA concepts like Enumerations, Wrapper Classes and Annotations | 1 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 1 |
| CO2 | Explain Collections Interface and Framework in development of modular applications. | 2 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 1 |
| CO3 | Use In-Built String Handling Functions for development of Java Programs | 3 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 1 |
| CO4 | Describe how servlets fit into Java – Based web application architecture | 4 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 1 |
| CO5 | Illustrate database access and details for managing information using the JDBC API | 5 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 1 |

| COGNITIVE LEVEL | REVISED BLOOMS TAXONOMY KEYWORDS |
|---|---|
| L1 | List, define, tell, describe, identify, show, label, collect, examine, tabulate, quote, name, who, when, where, etc. |
| L2 | summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend |
| L3 | Apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover. |
| L4 | Analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer. |
| L5 | Assess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize. |

| PROGRAM OUTCOMES (PO), PROGRAM SPECIFIC OUTCOMES (PSO) | | | | CORRELATION LEVELS | |
|---|---|---|---|---|---|
| PO1 | Engineering knowledge | PO7 | Environment and sustainability | 0 | No Correlation |
| PO2 | Problem analysis | PO8 | Ethics | 1 | Slight/Low |
| PO3 | Design/development of solutions | PO9 | Individual and team work | 2 | Moderate/ Medium |
| PO4 | Conduct investigations of complex problems | PO10 | Communication | 3 | Substantial/ High |
| PO5 | Modern tool usage | PO11 | Project management and finance | | |
| PO6 | The Engineer and society | PO12 | Life-long learning | | |
| PSO1 | Design, implement and maintain business applications in a variety of languages using libraries and frameworks. | | | | |
| PSO2 | Develop and simulate wired and wireless network protocols for various network applications using modern tools. | | | | |
| PSO3 | Apply the knowledge of software and design of hardware to develop embedded systems for real world applications. | | | | |
| PSO4 | Apply knowledge of web programming and design to develop web based applications using database and other technologies | | | | |