

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination November 2018

B. Tech in CSE (IBM), Semester V

Roll No.....

CSESP501 : Enterprise application development
using Java

Time: 3 hours

Max. Marks: 80

Instructions to students:

1. Do not write anything other than your roll number on question paper.
 2. Assume suitable data wherever required and mention it clearly.
 3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
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Q.1A Objective type questions (10 questions @ 1 mark)

10

- i. How many objects of a servlet is created
- ii. Who is responsible to create the object of servlet?
- iii. Can you call a jsp from the servlet?
- iv. How is the dynamic interception of requests and responses to transform the information done?
 - a) servlet container
 - b) servlet config
 - c) servlet context
 - d) servlet filter
- v. Which are the session tracking techniques?
 - i. URL rewriting
 - ii. Using session object
 - iii. Using response object
 - iv. Using hidden fields
 - v. Using cookies
 - vi. Using servlet object
 - a) i, ii, iii, vi
 - b) i, ii, iv, v
 - c) i, vi, iii, v
 - d) i, ii, iii, v
- vi. What is the stored in the object obj in following lines of code?
box obj;
 - a) Memory address of allocated memory of object
 - b) NULL
 - c) Any arbitrary pointer
 - d) Garbage
- vii. Which of these statement is incorrect?
 - a) Every class must contain a main() method
 - b) Applets do not require a main() method at all
 - c) There can be only one main() method in a program

- d) main() method must be made public
- viii. Which option is true about session scope?
- Objects are accessible only from the page in which they are created
 - Objects are accessible only from the pages which are in same session
 - Objects are accessible only from the pages which are processing the same request
 - Objects are accessible only from the pages which reside in same application
- ix. Which one is the correct order of phases in JSP life cycle?
- Initialization, Cleanup, Compilation, Execution
 - Initialization, Compilation, Cleanup, Execution
 - Compilation, Initialization, Execution, Cleanup
 - Cleanup, Compilation, Initialization, Execution
- x. "request" is instance of which one of the following classes?
- Request
 - HttpRequest
 - HttpServletRequest
 - ServletRequest

- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- 2.A List out some advantages of using JSP over servlet?
- 2.B What are the life-cycle methods for a JSP?
- 2.C What are the JSP implicit objects?
- 2.D How can we forward the request from JSP page to the servlet?
- Q.3A How to count the total number of visitors and whole response time for a request using Filter? Write a pseudocode for the same. 05
- Q.3B What are information captured by HTTP request? Define the format of the same. 05
- Q.4A How cookies are created, destroyed and information in a cookie retrieved in servlet. 05
- Q.4B How session are created, destroyed and information in a cookie retrieved in servlet. 05
- Q.5A Design a form to input details of an employee and submit the data to a servlet. Write code for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age) 05
- Q.5B What is expression language in context of JSP. 05
- Q.6A Write a pseudocode for developing an online compiler. 05
- Q.6B Write a short note on The JSP API. 05
- OR
- Q.6B Explain different JSP Scripting elements with a program. 05

- Q.7 Write a java bean named "student" having roll no and name having getter & setter methods. Write a JSP page to set the roll number and name for a student object and then print them by reading from object 10
- Q.8 Write a pseudocode for upload and download in servlet. Make sure that only different text file formats are supported. 10
- OR
- Q.8 Write a pseudocode for servlet connectivity with database. 10