

P P SAVANI UNIVERSITY

Sixth Semester of B. Tech. Examination
May 2022

SEIT3071 Advance Java Technology

26.05.2022, Thursday

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in same answer sheet.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1 Answer the Following. (Any five) [05]

- (i) What exception is thrown when Servlet initialization fails?
- (ii) List out J2EE modules.
- (iii) How can a servlet call a JSP error page?
- (iv) What is difference between PrintWriter and ServletOutputStream?
- (v) What is difference between GenericServlet and HttpServlet?
- (vi) What is the difference between hide comment and output comment?
- (vii) What the difference is between include directive and include action?

Q - 2 (a) Differentiate between ServletConfig and ServletContext interface with proper example. [05]

Q - 2 (b) Design an HTML form that has three fields to accept Hotel ID, Hotel Name, Manger ID and one Submit button. On form submission call servlet that will insert values in table Hotel, (hotel table has three columns hotel_id, hotel_name, manager_id) [05]

OR

Q - 2 (a) Justify the need for a Session Tracking Techniques in Servlet. Mention all the techniques and explain anyone of them. [05]

Q - 2 (b) Design an HTML form which contain three fields Name, Address, Email ID and a Submit button. When user press submit button define one servlet which check whether user has filled all the details or not. If all the details are filled than display the details in a JSP page otherwise user is asked to fill the details again. [05]

Q - 3 (a) Create a web application using JSP to get two integer number (N1 and N2) and display all Armstrong numbers between N1 and N2. [05]

Q - 3 (b) Differentiate between Scriptlet Tag and Declaration Tag with proper example. [05]

OR

Q - 3 (a) Create a web app with Demo.jsp, Process.jsp and HandleError.jsp. Take two numbers (n1, n2) from Demo.jsp. In Process.jsp, find division using $((n1+n2)/(n1-n2))$. Handle the exception in HandleError.jsp. [05]

Q - 3 (b) Differentiate sendredirect() and forward function with proper example. [05]

Q - 4 Attempt anyone. [05]

- (i) Explain web container in details.
- (ii) Explain architecture of J2EE.

SECTION - II

Q - 1 Answer the Following: (Any five) [05]

- (i) JDBC-ODBC bridge is type _____ driver.
- (ii) What is Java Bean?
- (iii) Define STUB and SKELETON
- (iv) ORM stands for _____
- (v) Give full form of EJB.
- (vi) Hibernate.cfg.xml is a _____ file.

- Q - 2 (a)** Explain steps to establish JDBC Connections. [05]
Q - 2 (b) Explain Prepared Statement with example segment. [05]

OR

- Q - 2 (a)** Write Note on type 4 driver. [05]
Q - 2 (b) Explain Callable Statement with example segment [05]
Q - 3 (a) What is Web Service? Give use of WSDL, SOAP, Stub and Skeleton with real time example. [05]
Q - 3 (b) What is Hibernate? Write down advantages and disadvantages of hibernate. [05]

OR

- Q - 3 (a)** Discuss SOAP based web service. [05]
Q - 3 (b) Explain Hibernate architecture and its features [05]
Q - 4 Attempt anyone. [05]
(i) Explain with suitable example: Java Bean
(ii) What is EJB? Write a note on Types of EJB.
