

NATIONAL SCHOOL OF BUSINESS MANAGEMENT

BSc in Management Information Systems (Special) – 20.2/20.3

BSc (Hons) in Software Engineering – 20.2/20.3

BSc (Hons) in Computer Science – 20.2/20.3

BSc (Hons) in Computer Network–20.2/20.3

2nd Year 1st Semester Examination 10th June 2022 SE204.3- Development of Enterprise Applications I

Instructions to Candidates

- 1) Answer to Part A & B are compulsory AND answer only one question from Part C.
- 2) The duration of the question paper is 5 hours. Including half an hour to download the paper and upload your answers in a single file. (Note: **No email submissions are** accepted under any condition.)
- 3) Weightage of Examination: 60% out of final grade
- 4) Download the paper, provide answers to the selected questions in a word document.
- 5) Please upload the document with answers (Answer Script) to the submission link before the submission link expires
- 6) Answer script should be uploaded in PDF Format
- 7) Under any circumstances E-mail submissions would not be taken into consideration for marking. Incomplete attempt would be counted as a MISSED ATTEMPT.
- 8) The Naming convention of the answer script Module Code_Subject name_Index No
- 9) You must adhere to the online examination guidelines when submitting the answer script to N-Learn.
- 10) Your answers will be subjected to Turnitin similarity check, hence, direct copying and pasting from internet sources, friend's answers etc. will be penalized.

- 1. Which method is used to send the same request and response objects to another servlet in RequestDispacher?
 - a. forward()
 - b. sendRedirect()
 - c. Both A & B
 - d. None of the above
- 2. Choose the **correct** statement about the JSP Life Cycle.
 - a. JSP page translation does not occur for each request.
 - b. Servlet code gets executed in the translation phase.
 - c. JSP page is converted to a servlet code in request processing phase.
 - d. _jspService() does not accepts requests.
- 3. How can we retrieve the value of the "User-Agent" header from the request?
 - a. String userAgent = request.getParameter("User-Agent");
 - b. String userAgent = request.getHeader("User-Agent");
 - c. String userAgent = request.getRequestHeader("Mozilla");
 - d. String userAgent = getServletContext().getInitParameter("User-Agent");
- 4. How would you set a header named "CONTENT-LENGTH" in the HTTPResponse object?
 - a. response.setHeader(CONTENT-LENGTH, "1024");
 - b. response.setHeader("CONTENT-LENGTH", "1024");
 - c. response.setStatus(1024);
 - d. response.setHeader("CONTENT-LENGTH", 1024);
- 5. Which of the following code is used to get cookies in servlet?
 - a. response.getCookies()
 - b. request.getCookies()
 - c. Cookies.getCookies()
 - d. None of the above
- 6. Which directive specifies a HTTP response that will be of type "image/svg"?
 - a. <%@ page type="image/svg" %>
 - b. <%@ page mimeType="image/svg" %>
 - c. <%@ page language="image/svg" %>
 - d. <%@ page contentType="image/svg" %>
- 7. Which of the following code retrieves the login of the user making this request?
 - a. request.getRemoteUser()
 - b. response.getRemoteUser()
 - c. Header.getRemoteUser()
 - d. None of the above
- 8. Which is an example of the syntax used to import a class in JSP?
 - a. <% page import= "java.util.Date" %>
 - b. <%@ page import= "java.util.Date" @%>
 - c. <%@ page import= "java.util.Date" %>
 - d. <% import java.util.Date; %>

- 9. Which statement is **true** about <jsp:usebean> action?
 - a. The id attribute is optional.
 - b. The scope attribute is required.
 - c. The scope attribute is optional and default value is request.
 - d. The scope attribute is optional.
- 10. What is the HTML output generated by this line in a JSP file?

< --- out.print("Hello World"); --%>

- a. Hello World
- b. out.print("Hello World");
- c. <!-- Hello World -->
- d. No output is generated by this line.

Part B

Question 2 (Total – 20 marks)

1. Briefly describe the servlet life cycle using a suitable diagram. (05 marks)

2. Briefly explain the following request/response headers. (06 marks)

- a. Referer
- b. Cookie
- c. Accept-Encoding
- 3. What are Java Beans? List down the four bean scopes. (04 marks)
- 4. Briefly describe the MVC architecture. (05 marks)

Question 3 (Total – 30 marks)

- 1. Write a program to create cookies for your username and password which expires in 2 minutes. (5 marks)
- 2. Write a program to view the cookies that you have created in the above question. (5 marks)
- 3. Write servlet code that instructs the browser to reconnect in every five seconds. Display the time (print new java.util.Date()) on each connection. (6 marks)
- 4. Write an example code line to explain the usage of the following JSP Actions. (9 marks)
 - a. < jsp:include>
 - b. <jsp:useBean>
 - c. <jsp:getProperty>
- 5. What is the main difference between **JSP Directives** and **JSP Actions**? (5 marks)

Part C

(Answer only one question from below questions.)

Question 4		(Total	– 30 marks)
1. Write	program to,		
a.	Create a form to take the fa	avorite programming language and favorite ID	E of the user. (10 marks)
b.	Returns a "Page not found	d" error page (404) unless the user supplies	"Java" as th
	favorite programming lang	uage and "NetBeans" as his/her favorite IDE.	(20 marks)
	<u>index.jsp</u>		
	Favorite Language:		
	Favorite IDE:		
		Submit	
Question 5		(Total	– 30 marks)
1. Write	program to create a user log	in which,	
a.	uses sessions		(10 marks)
b.	Checks whether the userna	ime is "Adam" and password is "abc123".	(10 marks)
C.	-	uccess.jsp & display "Hello Adam".	(6 marks)
d.	if not redirects to the login	.jsp	(4 marks)
<u>lo</u>	gin.jsp		
	Log	in	
	Username :		
	Password:		
		Login	
<u>s</u>	uccess.jsp		
	Hello Adam		

-----END OF THE PAPER-----