

No. of Printed Pages : 3

BCS-053

**BACHELOR OF COMPUTER
APPLICATION (REVISED)
(BCA)**

Term-End Examination

June, 2024

BCS-053 : WEB PROGRAMMING

Time : 2 Hours

Maximum Marks : 50

***Note :** Question No. 1 is compulsory. Attempt any
three questions from the rest.*

1. (a) Write a JSP program which will demonstrate the use of <jsp:forward> and <jsp:param> actions. 5
- (b) What is safe method ? Is Get method a safe method ? Give reason in support of your answer. 3

P. T. O.

- (c) Explain how errors are handled at application level in JSP programs, with the help of a program fragment. 4
- (d) Why do we need XML ? Write advantages of XML over HTML. 5
- (e) What is web container ? Name any *three* web containers. 3
2. (a) What are JSP Implicit objects ? Explain the use of any two implicit objects. 4
- (b) Differentiate between the following : 6
- (i) Static web pages and dynamic web pages.
- (ii) 2-Tier architecture and 3-Tier architecture.
3. (a) Explain WML Navigation Elements with the help of WML programs. 5
- (b) Write a HTML program using <details> and <summary> tag. Also explain both the tags. 5
4. Explain the following with the help of an example/diagram, if needed : $4 \times 2\frac{1}{2} = 10$
- (a) WAP protocol stack

[3]

- (b) Deployment Descriptor
 - (c) XML XSLT
 - (d) JSP Scriptlets
5. (a) Explain the features of the following web technologies : 6
- (i) Mashups
 - (ii) Rich Internet Applications
 - (iii) Web services
- (b) Write a JSP program which may print the series of odd numbers from 1 to 100. Also find the sum of these numbers. 4