

**Three/Four Year B.C.A. I Semester
Examination – December 2023**

(Faculty of Science)

(Three-Year scheme of 10+2+3 Pattern)

Paper – BCA

WEB APPLICATION DEVELOPMENT

Time Allowed: Three Hours

Maximum Marks – 80

QUESTION PAPER CONSISTS OF TWO PARTS A AND B.

Part A : 20 Marks

Part A is compulsory having 10 very short answer-type questions (with a limit of 20 words) of two marks each. The first question is based on knowledge, understanding and applications of the topics/text covered in the syllabus.

(भाग अ में दो अंक के 10 अति लघुउत्तरीय प्रश्न (20 शब्दों की सीमा के साथ) अनिवार्य हैं। पहला प्रश्न पाठ्यक्रम में शामिल विषयों / पाठ के ज्ञान, समझ और अनुप्रयोगों पर आधारित हैं।)

Part B : 60 Marks

Part B of the question paper is divided into four units comprising question numbers 2 – 5. There is one descriptive question from each unit with internal choice. Each question will carry 15 marks.

(भाग ब के प्रश्न पत्र को प्रश्न संख्या 2–5 सहित चार इकाइयों में विभाजित है। प्रत्येक इकाई से आंतरिक विकल्प के साथ एक वर्णनात्मक प्रश्न है। प्रत्येक प्रश्न 15 अंक का है।)

PART – A

1. Attempt all the question. Answer all the question as directed: **[2*10=20]**
- (a) Why is firewall used?
 - (b) Give four examples of a web browser.
 - (c) Why is gopher used?
 - (d) Define HTML.
 - (e) Why is iframe used?

- (f) Write syntax and example of the HTML tag which is used to create hyperlink.
- (g) What is the use and syntax of the <div> tag?
- (h) What is bootstrap?
- (i) What are cookies?
- (j) What do you understand by form validation in JavaScript?

PART – B**2.**

- (a) Discuss the basic services provided to the users by the internet. [5]
- (b) Discuss the element of the web in detail. [5]
- (c) Differentiate between proxy server and web server. [5]

OR

- (a) What is the role of protocols in internet working? Explain the HTTP, SMTP and FTP protocols. [8]
- (b) Explain the architecture of web browser in detail. [7]

3.

- (a) Write HTML code to create the following table using HTML: [10]

	Average		Working
	Height	Weight	
Females	5.4	56	70%
Males	5.8	70	82%

- (b) Write steps to create a website. [5]

OR

Name and explain the following HTML tag with examples of each: [5 * 3 = 15]

- (a) Image tag.
- (b) Paragraph tag.
- (c) Form tag.
- (d) Anchor tag.
- (e) Heading tags.

4. What do you understand by CSS? What are the different types of CSS? Explain all with proper examples. [15]

OR

Write short notes on –

[5 * 3 = 15]

- (a) CMS and Banks of CMS.
- (b) Bootstrap.
- (c) Styling borders.

5.

- (a) Differentiate between Client – Side scripting and Server – Side scripting. [5]
- (b) What are the types of pop – up boxes in JavaScript? Explain the use and example of each. [5]
- (c) Using for loop in JavaScript calculate factorial of a number entered by the user in a text box. [5]

OR

- (a) Explain with proper example all the loop statement available in JavaScript. [10]
- (b) Using JavaScript code, write a program that prints the sum of first n natural number. [5]