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B.C.A SEM V

22-23

Question Papers

Total No. of Printed Pages:02

B.C.A. (Semester – V)
EXAMINATION APRIL 2023
Core Course
Web Technology

[Duration: 2:00 Hours]

[Total Marks:60]

Instructions:

- i) All questions are compulsory.
- ii) Figures to the right indicate full marks

Q.1 A. Define the following terms.

- I. WWW
- II. JSON
- III. AJAX
- IV. DOM
- V. SMTP.

(5x1=05)



B. Give **Any Two** examples of the following.

- I. Web browsers
- II. Protocols
- III. Server side scripting languages
- IV. Generic domains on WWW
- V. Event handlers in JavaScript.

(5x1=05)

Q.2 A. Explain string concatenation operator in PHP.

(02)

B. Write the use of JavaScript code in <head>.... </head>section, <body>....

(03)

</body> section and external file.

C. Write **Any Two** benefits of JavaScript. With a suitable example of your

(05)

choice write any two client side validations that can be performed.

Q.3 A. Explain any two display properties used in CSS.

(02)

B. Write a PHP function with arguments to add two numbers. Initialize one argument with default value to 10.

(03)

C. With suitable examples explain authentication, availability, confidentiality, data integrity and non-repudiation with respect to web security.

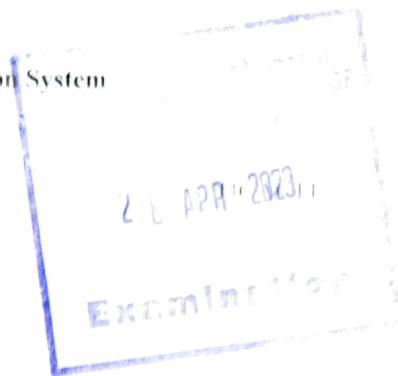
(05)



- Q.4**
- A. Write a note on web hosting. (02)
 - B. Differentiate between HTML v/s XML. (03)
 - C. List any two characteristics of PHP. With a suitable example code in PHP, show the session creation and deletion. Compare Cookies with Sessions. (05)
- Q.5**
- A. Write any two advantages of frameworks. (02)
 - B. Write any three applications of JavaScript. (03)
 - C. Write XML code to create a well structured XML document to represent employee information like empID, name, salary, designation and date of birth. (05)
- Q.6**
- A. Write a short note on media queries in CSS3. (02)
 - B. Write any three features of MVC architecture. (03)
 - C. Compare include () and require () function used in PHP. Explain the steps involved in updating data from MYSQL database table using PHP. (05)

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BCA Semester - V
EXAMINATION APRIL-2023
Information System



[Time: 2 Hours]

[Max. Marks: 60]

- Instructions:**
- All questions are compulsory.
 - Figures to the right indicate full marks.

- Q.1** A. Name the following: (5x1=05)
- The decision making tool that works on "80/20" rule, that states for all situations, 20% of causes determine 80% of problems.
 - A software that allows users to transform enterprise data into quickly accessible and executive-level reports.
 - An enterprise-wide information system designed to coordinate all the resources, information and activities needed to complete business processes.
 - The process that begins with customer order and ends with delivery of goods or services.
 - The system that records or process the data resulting from the business transactions.
- B. State whether the following statements are **True** or **False**: (5x1=05)
- Magazines, newspapers and websites are sources of the primary data.
 - Expert systems can be used when the domain or problem area is narrow.
 - SCM systems focus specifically on customers.
 - ERP systems focus on resource management within constraints to maximize the return on investment.
 - Data warehouse supports ad hoc types of reporting and query.
- Q.2** A. Describe any two characteristics of management information system. (02)
B. Define explicit knowledge. Illustrate the DIKW pyramid. (03)
C. Explain the types of knowledge management system. (05)
- Q.3** A. List any four components of management information system. (02)
B. Give three points of differences between operational information and strategic information. (03)
C. Explain CRM system in brief. (05)
- Q.4** A. What do you mean by data processing? (02)
B. List the steps involves while performing grid analysis in decision making. (03)
C. Define OLAP. State three advantages and one disadvantage of OLAP. (05)
- Q.5** A. State two disadvantages of expert system. (02)
B. Explain any three features of ESS. (03)
C. Define office automation system. Explain in brief the importance of office automation system. (05)

- Q.6**
- A. What do you mean by data mining? (02)
 - B. Discuss the impact of SCM on operational level. (03)
 - C. Explain in brief the role of data warehouse in management information system. (05)

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B.C.A. Semester - V
EXAMINATION MAY 2023
Computer Science Elective - Human Computer Interaction

[Time: 2 Hours]

[Max. Marks:60]

- Instructions:
- 1) All questions are compulsory
 - 2) Figures to the right indicates full marks.

Q1 A. Answer the following: (5x1=5)

- i) Name **any one** device that helps in pointing and positioning in 3D space.
- ii) Define Human Computer Interaction.
- iii) What is a persona?
- iv) What is turn-taking?
- v) Define Zoomable User Interface.

B. Answer the following: (5x1=5)

- i) "Echoic memory refers to aural stimuli". True or False?
- ii) Name any two types of keyboards.
- iii) "The ambiguity of natural language makes it very easy to work with a machine". True or False?
- iv) What are inlays?
- v) Define inline paging.

Q2 A. Give **any two** points of differences between long-term memory and short-term memory in human. (2)

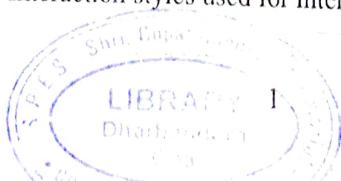
B. Which are the various human senses that can be used for interaction with computers? Give examples of each. (3)

C. "The colors used in user interfaces should also correspond to common conventions and user expectations". Give **any 5** reasons to justify the statement on why the choice of colors is so critical in user interfaces. (5)

Q3 A. "Prototyping important while designing interfaces". True/False? Justify your answer. (2)

B. What are back channels? Give two reasons as to why back channels are critical in face-to-face communication. (3)

C. List various Interaction styles used for interaction with computers. (5)



- Q4 A. Define localization/internationalization. (2)
- B. State the three principles of usability. (3)
- C. List **any five** best practices for Drag and Drop. (5)
- Q5 A. What is direct selection in Web interface design? Give an example. (2)
- B. What is HTML prototype? Give one advantage and one disadvantage of HTML prototyping. (3)
- C. List and explain the elements of a WIMP interface. (5)
- Q6 A. State **any two** types of selection patterns in web interfaces. (2)
- B. State the goals of evaluation. (3)
- C. Define native mobile applications. List **any two** pros and cons each of native mobile applications. (5)