National College of Computer Studies
(NCCS-College of IT & Management)
Mid-Terminal Examination (2023)

Set A

BCA/ Third Semester/ CSCS 205:Web Technology

Full Marks: 50
Time: 2 hr 40min

Candidates are required to answer the questions in their own words as far as practicable.

Group 'B'

Attempt any SIX questions: [6×5=30]

2. Differentiate between inline, internal and external CSS with short example.

3. What is the use of HTML list? Explain different types of list and list style types with example

4. What is session and cookies? Show with program how session variable can be created, accessed and deleted.

5. Create a login form with fields username, password and submit button. If credentials matched with database record then display all the records of that person, if not then display "error in credentials". Assume database name to be "db_nccs" and table name to be "tbl_std".

6. Create a following table using HTML and CSS. The odd row of table should have red background with green text and even row should have green background with text in mixture of RGB.

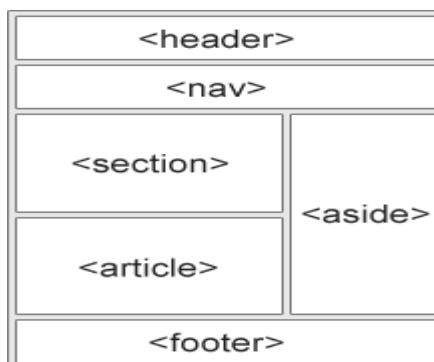| Day | Workshop | | |
	Schedule		Topic
	Start time	End time	
Sunday	8am	10am	HTML Basics
			CSS and its types
Monday	10am	1pm	PHP Basic
			PHP database connection

7. What is file? Write a server side script to copy the content of file "a.txt" and paste it in file "c.txt". After this display the content of c.txt.

8. Differentiate between 1-tire, 2-tier and 3-tier architecture? Also write pros and cons of each tier.

Group C

Attempt any TWO questions: [2×10=20]

9. Write a server side script to create a web form that contains a textbox for name, password, repassword, age, radio buttons for gender, dropdown list for country, buttons for submit and reset. When submit is clicked, a form should redirect to val.php and perform:

   a. Basic validation and required validation such that password and repassword should be equal, age should be greater than 16, gender and country should be selected.

   b. After all the validation, insert the data into database table. Assume database name to be "db_nccs" and table name to be "tbl_reg".

   c. Display all the record in table format

10. What are the rules to create well-formed XML document? Create a sample well-formed XML and validate with xml DTD? Link XML to both internal and external DTD. [3+7 = 10]

11. Explain any four CSS selector except id and class. Create a following format using division and external CSS. [4+6 =10]

```
<header>
<nav>
<section>
              <aside>
<article>
<footer>
```

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Set B

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Full Marks: 50
Time: 2 hr 40 min

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Group B

Attempt any SIX questions: [6×5=30]

2. Differentiate between absolute and relative URL? Write an example for linking to files in same directory, sub directory, parent directory and from the root directory.

3. Create a following table using HTML and CSS. The even row of table should have blue background with text in red color, the third row of table should have red background with text white in color.

Name	Subject			Total
	Web Technology	OOP in Java	Data structure	
Hari	40	50	60	150
Gita	50	50	60	160

4. Design the following menu using HTML and CSS. The menu should be in red in color when link is visited, green background with underline when cursor is placed on content, should be in blue color with overline if menu have valid link and should have text in mixture of RGB if menu is clicked.
   Home|About Us|Gallery|Contact|Registration

5. Explain the rule for writing well-formed XML.

6. For what purpose session is used? Show with program how session variable can be created, accessed and deleted.

7. List down different file modes? Write a server side script to insert line of a text in file "a.txt". After this attach the text "hello BCA 3rd sem" on that file such that previous content does not get replaced. Finally, display the content of "a.txt".

8. Create a form that contains textbox for username, password, repassword, radio button for gender and submit button. A form also contains border and title "registration". Now perform basic validation and insert the data into database table. Assume your own database and table name

Group C

Attempt any TWO questions: [2×10=20]

9. Differentiate between 1 tier, 2-tier and 3-tier architecture? List out the pitfall of 3-tier technology over n-tier. Create a sample well-formed XML and validate with xml external DTD. [4+2+4=10]

10. Create a following login form. [10]

    ┌─ Login form ──────────────┐
    │ Username [   ]   │
    │ Password [   ]   │
    │ [submit] [reset]   │
    └────────────────────────────┘

   - When submit is pressed, perform basic validation and check whether the username and password match with database's record or not. If credential matches then redirect the page to display.php. The display.php should contains all the record of database table in table format and logout button.
   - Insert session in the form and if logout is pressed destroy the session and redirect the page into form.php

11. What is CSS Box Model and what are its elements? Give example. Write a source code to create following layout using division. [4+6=10]

    ┌────────────────────────────┐
    │   Header   │
    ├────────────────────────────┤
    │   Navigation Menu   │
    ├──────┬──────────────┬──────┤
    │Content│   Main   │Content│
    │   │   Content   │   │
    ├──────┴──────────────┴──────┤
    │   Footer   │
    └────────────────────────────┘

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