

**NEPAL COLLEGE OF INFORMATION TECHNOLOGY  
ONLINE MOCKUP EXAM**

**Level: Bachelor**  
**Program: BE-SE-II (M)**  
**Course: Web Technology**

**Year: 2020**  
**Full Marks: 70**  
**Pass Marks: 31.5**  
**Time: 2 hrs.**

*Candidates are required to answer in their own words as far as practicable. The figures in the margin indicate full marks.*

**Attempt all questions.**

| <b>Group - A: (5*10=50)</b> |  |       |
|-----------------------------|--|-------|
| Q.N.1.                      | <p>Suppose you are a web developer/programmer in a reputed software-company in a Kathmandu. Concerning with the present Covid-19 pandemic situation in the country, you are asked to prepare a plan and develop a web application that would will be very much helpful in this situation.</p> <ul style="list-style-type: none"><li>i. Propose a plan what sort of web application will you develop and why?</li><li>ii. Which language, tools and technologies will you use for the development of that application and how will you put that online?</li><li>iii. What security measures will you follow to make your site secure? Point out any 4 important measures.</li></ul> | 3+5+2 |
|                             | <b>OR</b>  |       |
|                             | <p>Design and develop your personal website to show how PHP and MySQL can be used to develop a dynamic website.</p>  | 10    |
| Q.N.2.                      | <p>Design and develop HTML document that is the homepage of your college website including home page with images and descriptions of any four departments of your college. The document must also include three headings, one ordered lists, one unordered lists, one description lists and one table. The detailed descriptions of different departments must be stored in separate documents that are accessible through links from the home document.</p>   | 10    |

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|--|---|---------|
| Q.N.3.   | What is the actual use of CSS? Explain the CSS properties discussed in box model of CSS along with example of simple webpage content using three different levels of style sheets.  | 2+4+4   |
| Q.N.4.   | Give any five important examples of uses of JavaScript to show that it can be used to program the behavior of any web page considering your own web page.   | 10      |
| Q.N.5.   | Considering a scenario of any web page explain how session and cookies play important role in any web page.   | 5+5     |
| <b>Group - B: Problem-solving/case studies (1*20=20)</b> |   |         |
| Q.N.6.   | Design and develop a registration form (including at least 8 important fields) that you think would be helpful for needy people during Covid-19 pandemic situation. Validate the form inputs using both client side and server side validations using pattern matching. Create at least two tables to insert the form data and show how you would employ SQL joins to display the list of registered records on the listing page. | 4+6+4+6 |

*Best of Luck!*