



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Back Exam – 2081/2082 Chaitra/Baishakh

Program: Diploma in Computer Engineering

Full Marks: 80

Year/Part: II/I (2018) © Arjun

Pass Marks: 32

Subject: Web Technology and Programming II

Time: 3 hrs. .

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



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Attempt any **EIGHT** questions.

1. What is XML? Explain basic structure of XML. Explain [2+3+5]
AJAX with its components.
2. What is XAMPP? Differentiate between server-side scripting [4+6]
Vs client-side scripting.
3. Explain looping and its types used in PHP. [2+8]
4. Define function. Explain its types. [2+8]
5. Explain GET and POST with help of code. [10]
6. What are cookies and sessions? Explain file inclusion. [5+5]
7. What is database? Write the PHP code to create MySQL [2+8]
database and insert data into database and table.
8. What is Laravel? Explain MVC concept. Differentiate [2+4+4]
between authentication and authorization.
9. Write short notes on: (any **TWO**) [2×5]
 - a. Seeding
 - b. Error handling
 - c. 2D and 3D array
 - d. PHP Vs JSP Vs ASP

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Good Luck !



Program: Diploma in Computer Engineering/
Information Technology

Full Marks: 80

Year/Part: II/II (2022) © Arjun

Pass Marks: 32

Subject: Web Technology II

Time: 3 hrs.

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Attempt any **EIGHT** questions.

1. Define web server. Explain the architecture of web server. [2+8]
2. a. Explain the importance of database normalization in web development. [4]
b. Explain the use of alter, update and delete queries with example. [6]
3. a. Write the advantages of using PHP for web development. [4]
b. Why comments are important while writing a program. [2]
c. Write a rules to create a variables in PHP. [4]
4. a. Explain error handling in PHP with example. [5]
b. List out and explain the different file handling functions used in PHP. [5]
5. a. Explain classes and objects in PHP. [5]
b. Explain method overriding. [5]
6. Write PHP script to connect and create a database 'college', create a table 'class' with fields 'name', 'boys roll no' 'girls roll no' and insert 2 data in table. [10]
7. a. What is XML element? Explain the physical structure of XML. [1+4]
b. Define AJAX and its advantages. [5]
8. a. Explain Laravel and its features. [5]
b. Explain briefly about MVC concept in Laravel. [5]
9. Write short notes on: (any **TWO**) [2×5]
 - a. DTD
 - b. XAMPP
 - c. Constructors and destructors
 - d. PHP arrays

Good Luck !



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Back Exam-2080/2081, Chaitra/Baishakh

Program: Diploma in Computer Engineering

Full Marks: 80

Year/Part: II/II (2018) © Arjun

Pass Marks: 32

Subject: Web Technology and Programming II

Time: 3 hrs.

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



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Attempt any EIGHT questions.

1. Explain application of XML. What are the advantages of AJAX? [5+5]
2. a) Why PHP is considered as server side scripting language? [5]
b) Explain briefly about variables, global variables and constants. [5]
3. What are the conditional statements used in PHP? Explain with example. [10]
4. a) Define function and its types in brief. [5]
b) Differentiate between GET and POST. [5]
5. Explain types of operators used in PHP. Write the differences between PHP and JSP. [6+4]
6. Explain XAMPP. WAP to create a login form having username and password and then connect it with database. [10]
7. a) Explain MVC concept in brief. [5]
b) What is sessions? Explain about blade templating system. [5]
8. WAP in PHP to insert, retrieve, update, delete data into database. [10]
9. Write short notes on **(any TWO)** [2×5]
 - a) Pagination
 - b) Types of array in PHP
 - c) Escape sequences
 - d) Structure of XML

Good Luck !



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/ Scholarship Exam-2080 Magh/Phagun

Program: Diploma in Computer Engineering/
Information Technology

Full Marks: 80

Year/Part: II/II (2022) © Arjun

Pass Marks: 32

Subject: Web Technology II

Time: 3 hrs.

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

Attempt any EIGHT Questions.  www.arjun00.com.np

1. What is web server? Explain the concept of dynamic content and architecting a web application. [2+3+5]
2. a) Explain about the importance of database normalization in web development. [5]
b) Write the use of Alter and Update command in database with example. [5]
3. a) What are the advantages of using PHP for web development. [5]
b) Explain different string functions used in PHP with example. [5]
4. Write the importance of client side validation. Write a program in PHP to upload a file/image. [3+7]
5. Explain about constructors and destructors. How can we insert data into MySQL database using PHP? [5+5]
6. What is database? How can we connect multiple databases using PHP? Explain with example. [2+8]
7. Explain about the logical and physical structure of XML. Explain the use of following occurrence indicators. [4+6]
a. Question mark (?) b. Asterisk (*) c. Plus sign (+)
8. What are the advantages of using AJAX? Design a simple web page using AJAX. www.arjun00.com.np [3+7]
9. Write short notes on: (any TWO) [2×5]
a. PHP framework
b. Get and Post method
c. PHP arrays
d. DTD

Good Luck!



Program: Diploma in Information Technology

Full Marks: 80

Year/Part: II/II (2016)

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Pass Marks: 32

Subject: Web Technology II

Time: 3 hrs.

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

Attempt Any Eight questions.



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1. What is PHP? List out the popular CMS in PHP. Explain the difference between static and dynamic websites. [2+2+6]
2. Write the codes in HTML to design a form containing five different elements. [10]
3. Explain different types of loops with its syntax in PHP. [10]
4. What is PHP variables? Write a program in PHP to print the Fibonacci series. [2+8]
5. Design a login system and write the codes in PHP for it using cookies. [10]
6. Write the codes in PHP to connect to a database. Also, explain about different operations that can be performed in a database with example code. [2+8]
7. What are XML? Explain about the structure of XML. [2+8]
8. What are PHP frameworks? Why are they important? Explain its types. [3+3+4]
9. Write a program in PHP to upload a file/image. [10]
10. Write shot notes on: (any TWO) [2×5]
 - a. AJAX
 - b. Inheritance
 - c. Sessions and Cookies
 - d. PHP Functions

Good Luck!



Regular/Back Exam-2079, Bhadra/Ashwin

Program: Diploma IT/Computer Engineering **Full Marks: 80**
Year/Part: II/I (2018 New Course) © Arjun **Pass Marks: 32**
Subject: Web Technology & Programming II **Time: 3 hrs.**

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full mark



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Attempt Any Eight questions.

1. a) Define xpath, xlink and xpointer. [5]
b) Differentiate between XML and HTML. [5]
2. a) Differentiate between PHP, JSP and ASP? [5]
b) Differentiate between client side and server side scripting. [5]
3. a) What are relational operators? Explain with suitable example. [5]
b) What do you mean by conditional statement? Write in brief about if else conditional statement. [5]
4. a) Define AJAX. How do you consume web services using AJAX? [5]
b) Define Laravel. Explain briefly about Blade Templating System in Laravel. [5]
5. Define MySQL? Write a program to create a login form having Username and Password and then connect it with database. [10]
6. What do you mean by numeric array, associative array and Multidimensional, Give suitable example? [10]
7. a) Differentiate between \$-GET and \$-POST method. [5]
b) Write about, Iteration and looping with suitable example. [5]
8. Define files & I/O. Write PHP scripts to create a new text file and then write a short text heading inside it. [2+8]
9. Write short notes on: **(Any Two)** [2× 5 = 10]
 - a) String function
 - b) Cookies
 - c) HTTP
 - d) Sessions

Good Luck!



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2078, Chaira-2079 Baishakh

Program: Diploma in Information Technology

Full Marks: 80

Year/Part: II/II (2016) © Arjun

Pass Marks: 32

Subject: Web Technology II

Time: 3 hrs.

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



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Attempt any EIGHT questions

1. Define web server. Explain the concept of dynamic content. [4+6]
2. Write the codes in HTML to design a table and a form. [10]
3. What are the different types of operators used in PHP? Explain. [10]
4. Write a program in PHP to take a number as input from user and display the Fibonacci series upto that number. [10]
5. Explain about the GET and POST method. [10]
6. Write the codes in PHP to display the name, roll and address from standard table of student database. [10]
7. Write a program in PHP to upload an image. [10]
8. Explain logical and physical structure of XML. [10]
9. What is framework? Explain about database normalization. [2+8]
10. Write short notes on (Any TWO) [2×5]
 - a) CSS
 - b) Cookies
 - c) AJAX
 - d) Exception Handling

Good Luck !



Program: Diploma in Computer Engineering Full Marks: 80

Year/Part: II/I (2018 New Course) © Arjun Pass Marks: 32

Subject: Web Technology & Programming II Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.



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Attempt Any Eight questions.

1. a) Differentiate between XML and HTML. [5]
b) What do you mean by AJAX? Explain with example. [5]
2. a) Why PHP is considered server-side scripting language? [5]
b) Explain briefly about variables, global variables and constants with examples. [5]
3. a) What do you mean by Operators? Write about relational operators. [1+4]
b) What are conditional statements? Explain with suitable example. [5]
4. a) Write about `strlen()`, `str_word_count()`, `strrev()`, `strpas()` and `str_replace()` with example. [5]
b) Explain one dimensional and multi-dimensional array. [5]
5. a) Write about `echo`, `print()` and `printf()` with example. [5]
b) Explain Get and Post methods in PHP. [5]
6. Write PHP script to create a text file with name 'newfile.txt' and write 'This is a text file' in it. Finally read 'newfile.txt' to display file size, file content and file name. [10]
7. Write PHP script to create a database 'college', create a table 'class' with fields 'name', 'boys_no' and 'girls_no', insert 5 data in table and retrieve data with boys-no greater than 5 and display it in html table format. [10]
8. a) Explain briefly about MVC concept in Laravel. [5]
b) Explain briefly about error handling in PHP. [5]
9. b) Write short notes on : (Any Two) [2x5=10]
 - i) MySQL Database
 - ii) Pagination
 - iii) Cookies
 - iv) sessions



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2076, Falgun/Chaitra

Program: Diploma in Computer Engineering

Full Marks: 80

Year/Part: II/I (New Course) © Arjun

Pass Marks: 32

Subject: Web Technology & Programming II

Time: 3 hrs

Candidates are required to give the practicable. The figures in the marg



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Attempt Any Eight Questions

1. Explain application of XML. What are the advantages AJAX? [5+5]
2. Define PHP. Write similarities and differences between PHP and JSP. [4+3+3]
3. What are operators? Explain different types of operators used in PHP. [2+8]
4. What are the different methods of passing values between pages? Explain. [10]
5. Define function. Explain about built-in function and user defined function with example [2+8]
6. Define looping. Explain about different types of loop used in PHP. [2+8]
7. a) How can we insert data into mysql database using PHP. [5+5]
b) Explain about controller, view and migration.
8. Define string in PHP. Explain any four string handling function used in PHP. [2+8]
9. Write Short notes on: (Any Two) [2x5=10]
 - a) Cookies
 - b) Local and Global variables
 - c) Array

Good Luck!



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2075, Falgun/Chaitra

Program: Diploma in Computer Engineering

Full Marks: 80

Year/Part: II/I (2010) © Arjun

Pass Marks: 32

Subject: Web Technology and Programming II

Time: 3 hrs.

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



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Attempt any **EIGHT** questions.

1. Differentiate between client-side and server-side scripting language with examples. [10]
2. How can you add Javascript in a web page? Write a Javascript function to find multiple of 7 for 10 terms. [2+8]
3. Explain the concept of object oriented programming with Javascript. Explain image and form objects in Javascript. [4+6]
4. What is form validation? Explain Event Handling in Javascript. [4+6]
5. What is dotnet framework? Explain its application. [4+6]
6. What do you understand by procedures? Explain Sub-routines and functions in brief. [2+4+4]
7. Explain creating and connecting Database with server-side scripting with code examples. [5+5]
8. Define 'XML' with its syntax. Explain 'XML' schema with example. [5+5]
9. Write short notes on **(Any TWO)** [2×5]
 - a) SQL
 - b) JQuery
 - c) Interfaces and collection
 - d) Pagination

Good Luck !



Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/ Back Exam- 2073, Falgun

Program: Diploma in Computer Engineering
Year/Part: II/I (New Course) © Arjun
Subject: Web Technology & Programming II

Full Marks: 80
Pass Marks: 32
Time: 3 hrs

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

Attempt All questions.



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1. (a) Write the differences between client side and server side scripting language. [5]
(b) Write advantage and disadvantage of JavaScript. [3]
2. (a) Define JavaScript data type with example. [4]
(b) Explain various looping used in JavaScript. [6]
3. (a) Describe inheritance. [3]
(b) Explain sub procedures with example. [9]
4. (a) Write a sample code to connect the database and display the query in Asp.net. [8]
5. (a) What is AJAX? Where are it used? [5]
(b) How do you add website in ASp.net? [5]
6. (a) Define XML schema with examples. [5]
(b) Write XML syntax rules, validator. [5]
7. (a) Explain Database and data manipulation statement in SQL with example. www.arjun00.com.np [8]
(b) How to connect server side script to database? [4]
8. Write short notes on: Any Two [2x5=10]
(a) SOAP (b) SQL (c) Transaction

Good Luck