

PURBANCHAL UNIVERSITY
2018

B.E.(Computer)/Fourth Semester/Final

Time: 03:00 hrs.

Full Marks: 80/Pass Marks:32

BEG275CO: Free Open Source Programming (New Course)

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

All questions carry equal marks. Marks allocated for each question is specified along its side.

Answer EIGHT questions.

8x10=80

1. Explain the philosophy of FOSS. Explain emerging applications of FOSS philosophy in various sectors. 4+6
2. Differentiate between free software, open source software and proprietary software. What are the strengths and weakness of FOSS? Explain. 5+5
3. What is OSS licensing? Explain its types. What are the strategies of OSS licensing? 5
- 4 (a) What is web server? How does a client browser communicate with the web server? Explain with neat diagram. 5
- (b) What are the tags used for designing an effective web page? 5
- 5 (a) Explain the different ways of linking the document in the web page. 5
- (b) Create a specimen of your college web page. Divide the browser into two frames. The frame on the left will be menu consisting of hyperlinks. Clicking in any one of these links will lead to a new page, which must open in the target frame, which is on the right-hand side. 5
6. Create an html form that has textboxes First Name, Last Name, Address, Email, Pin Code. When a form runs, browser fills the textboxes with data. Write JavaScript code that verifies that all textboxes have been filled. If a textbox is empty, pop up an alert indicating which textbox has been left empty. When the alert's ok button is clicked on, set focus to that specific textbox. If all the textboxes are filled, display a THANK YOU alert. 10
- 7 (a) What is CSS? How external style sheet can be used to create dynamic web page? 5
- (b) What are the types of dialog boxes used in JavaScript? Explain. 5
- 8 (a) Why PHP is called server-side scripting language? Write the pros and cons of using php. 6
- (b) Explain the language constructs and functions used in php with suitable example. 4
- 9 (a) What is file handling? Explain the reading & writing operation in files using php. 1+4
- (b) What are cookies & session? WAP to create & destroy a session using php. 1+4
10. Write short notes on any TWO: 5+5
 - a) CURD, b) FTP, c) Database Connectivity

PURBANCHAL UNIVERSITY
2017

B.E.(Computer)/Fourth Semester/Final

Time: 03:00 hrs.

Full Marks: 80/Pass Marks:32

BEG275CO: Free Open Source Programming (New Course)

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

All questions carry equal marks. The marks allocated for each sub-question is specified along its side.

Answer EIGHT questions.

8x10=80

- 1 (a) Write a brief history of free and open source software. 5
- (b) Differentiate between proprietary software and open source software. 5
- 2 (a) What are web browsers and web servers? Explain how a requested page gets displayed on user's browser. 5
- (b) Write about FTP, HTTP and HTTPS. 5
- 3 (a) What is purpose of using CSS file? How can you embed a CSS file into an HTML file? Give examples. 5
- (b) Write HTML codes for frames, forms, table. 5
- 4 (a) Why is JavaScript considered a very powerful language? Explain. 5
- (b) Write a program to enter a member in a textbox and display its factorial on another textbox when clicked on a button. Write necessary JavaScript code to perform necessary data validation on user input. 5
5. Define PHP and explain its features. Write a PHP program to input n numbers in an array and determine the largest number in the array in descending order. 5
- 6 (a) How are functions created in PHP programming? Give examples. 5
- (b) Write a PHP program to input a line of text and copy the contents in a data file in upper case. 5
7. Define SQL. Write the syntax of basic SQL commands with examples. 2+8
- 8 (a) What is session and cookies? How do you create and destroy a session? 6
- (b) Write different types of array with an example in PHP. 4
9. Write short notes on any TWO: 5+5
- (a) Linking documents
- (b) Strengths and weaknesses of FOSS
- (c) Commercial license versus open source license

PURBANCHAL UNIVERSITY

2016

B.E.(Computer)/Fourth Semester/Final

Time: 03:00hrs

FullMarks:80/PassMarks:32

BEG275CO: Free Open Source Programming (New Course)

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

All questions carry equal marks. The marks allotted for each sub -question is specified along its side.

Answer EIGHT questions.

1. What is open source software? Explain it with advantages and disadvantages. (3+7)
2. Define “free software”? Is it same as “open source”? Can open source software be used for commercial purpose? Explain. (5+5)
3. What are the major types of open source software license? Explain current status of FOSS adoption in Nepal. (6+4)
4. Is HTML a necessary for web page development? Justify. Write HTML code, developing for your college/university web site using following features:
(a) Scrolling (b) List (c) Image
(d) Linking (e) Table (f) Frame
5. What are three techniques which make HTML page a dynamic? Explain CSS with class and DIV tag. (2+8)
6. How is JavaScript used in web page development? Explain advantages of JavaScript. (4+6)
7. Explain DOM with its significance. Write a program in JavaScript using form, event and DOM properties. (4+6)
- 8 (a) Explain PHP, APACHY and MySQL with its current version. (7)
(b) Differentiate between session and cookies. (3)
- 9 (a) Explain different arrays used is PHP with an example. (5)
(b) Write a program in PHP to display factorial of a given number. (5)
10. Write short notes on any TWO: (5+5)
(a) Database Connectivity
(b) GET and POST Method
(c) Error Handling

PURBANCHAL UNIVERSITY

2015

B.E.(Computer)/Fourth Semester/Final

Time: 03:00hrs

FullMarks:80/PassMarks:32

BEG275CO: Free Open Source Programming (New Course)

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

All questions carry equal marks. The marks allotted for each sub -question is specified along its side.

Answer EIGHT questions.

8*10=80

- 1 (a) What is FOSP? Explain the advantages and disadvantages of FOSP. 5
- (b) Explain commercial License versus Open source license. 5
- 2 (a) What is PROTOCOL? Explain about FTP, TCP and IP with necessary diagram? 5
- (b) What do you mean by 404 errors in web server? How bandwidth is managed to run a website smoothly? 5
- 3 (a) Explain various List Tags used in HTML and write an example for each tag. 5
- (b) How the document is linked in HTML? Explain the types of linking documents with their example in HTML. 5
- 4 (a) What is the role of CSS for making a beautiful and eye-catching web pages. 5
- (b) Explain various way of including CSS in HTML with an example. 5
- 5 (a) Differentiate Between Java and JavaScript. List out the advantages of JavaScript. 5
- (b) WAP to display digital clock in a webpage using JavaScript and HTML. 5
6. Define PHP Programming. Explain Session in PHP with syntax. Write a PHP program using Session for user login system. 2+2+6
7. Write the different file opening modes in PHP. Write a program to READ the content of a file "source.txt" and copy its content and paste it into another file "destination.txt". 3+7
- 8 (a) Explain MYSQL database. Write a PHP function for connecting database with necessary parameter. 5
- (b) Write an SQL-query for selecting student name whose name starts with "S" and having five characters. 2.5
- (c) Write an SQL query for selecting all female students whose name end with "a". 2.5

Roll No	Name	Gender
1	Shiva	Male
2	Sarita	Female
3	Sangita	Female
4	Sanjay	Male

- 9 (a) Write a necessary code for content management system (CMS) of a student. An Authorized person can insert student's information, can view, can edit and can delete the student record. CREATE a table 'tbl_student' in database 'db_college'. 10
10. Write short notes on any TWO: 2*5=10
 - (a) Domain Registration
 - (b) Error handling in JavaScript
 - (c) Array in PHP

PURBANCHAL UNIVERSITY

2014 (New)

B.E.(Computer)/Fourth Semester/Final

Time: 03:00 hrs.

Full Marks: 80/Pass Marks:32

BEG275CO: Free Open Source Programming

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

All questions carry equal marks:

Answer TEN questions.

1. What is FOSS? Free software and open source are two parties of the same community. Explain. 2+6
2. What is open standard and open content? Differentiate between open source software and proprietary software. 3+5
3. List the benefits and shortcomings of FOSS. What is open source software licensing. Explain the OSS licensing strategies. 3+5
- 4 (a) Compare web browser and web server. Explain HTTP transaction with the suitable figure. 2+3
- (b) What is HTML? Write HTML code to generate output as shown below. 1+2

MARKSHEET				
SUBJECT	MARKS			
FOSP	INTERNAL		EXTERNAL	
	THEORY	PRACTICAL	THEORY	PRACTICAL
	20	50	80	-

- 5 (a) Write HTML code to create the form as shown below 4

First Name	<input type="text"/>
Last Name	<input type="text"/>
Address	<input type="text"/>
Date	<input type="text" value="01"/> ▾ Day <input type="text" value="01"/> ▾ Month <input type="text" value="01"/> ▾ Year
Gender	<input type="radio"/> Male <input type="radio"/> Female
<input type="button" value="Submit"/>	<input type="button" value="Clear"/>

- (b) Write HTML tag to insert image in web page. How JavaScript is implemented in HTML. 2+2
- 6 (a) What are the different dialog boxes used in JavaScript? Explain. 4
- (b) Write JavaScript code for the validation of name and address and phone number. 4
- 7 (a) Write the program in JavaScript code to display the factorial of any number. 3
- (b) What is php? Write php code to create, open, delete and update the file. 1+4
- 8 (a) Why php is called server-side scripting language? Write the pros and cons of using php. 2+2
- (b) Explain different array used in php with examples. 4
- 9 (a) Write the program in oho to list the multiple of 2. 4
- (b) What is language construct and functions? Write the syntax to implement php in webpage. 3+4
- 10 (a) Write the syntax to connect database with MySQL using php. 1
- (b) What us cookies and session? Write the program to create and delete cookies using php. 2+2
- (c) Write the MySQL queries for: 3
- Creating a MySQL table named COLLEGE
 - Consisting of field college-id, name, address, phone number
 - Insert data into table
 - Select all from the table
11. Write short notes on (any TWO) 2x4=8
- (a) Image Map
- (b) CSS (Cascading Style Sheets)
- (c) FOSS Philosophy
- (d) Proprietary Software