

FURBANCHAL 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. The marks allotted for each sub-question is specified along its side.

Answer EIGHT questions.**8×10=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? 1+4+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? Explain any 4 tags with suitable example in web page design. 1+4
- 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 a menu consisting of hyperlinks. Clicking on 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 the textboxes First Name, Last Name, Address, Email ID, 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 left empty, popup 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

(2)

- 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. 2+3
- (b) Explain the language constructs and functions used in php with suitable example. 5
- 9(a) What is file handling? Explain the reading and writing operation in files using php. 1+4
- (b) What is cookies and session? Write a program to create and destroy a session using php. 1+4
10. Write short notes on any TWO: 5+5
- (a) CURD
- (b) FTP
- (c) Database Connectivity