

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2021

B.Tech V and VII Semester

COURSE CODE: 18B11BI512

MAX. MARKS: 35

COURSE NAME: Scripting Languages for Bioinformatics

COURSE CREDITS: 03

MAX. TIME: 2 Hours

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Use biological examples for the function implementations.

- Q.1. Discuss the advantages of a scripting language over a markup language. Justify your answer with technical points. (2)
- Q.2. Realize following functions of JS with a suitable code as an example. Provide the output also for the code you will provide as an example: (1*5=5)
- (a) split() (b) ceil() (c) substr() (d) pow() (e) splice()
- Q.3. Demonstrate the implementation of CSS *w.r.t.* the positions of the objects on the browser window. (2)
- Q.4. Differentiate between the following: (1.5*4=6)
- (i) Client-side vs server side programming (ii) Serial vs parallel processing
(iii) Light vs heavy weight programming (iv) Object based vs object oriented
- Q.5. Implement following functions in PHP: (1*5=5)
- (a) array_filter() (b) str_replace() (c) strstr() (d) krsort() (e) unlink()
- Q.6. Write the parameters for mysql_connect() function. How you can connect to a database through PHP? (2)
- Q.7. How the graphics can be implemented in PHP. Provide a cascade of code to reflect the implementation of a graphics code to generate a circle. Modify the same program to generate an ellipse as well. (3)
- Q.8. What is NaN? Is there any function to deal with this kind of data? (1)
- Q.9. Explain following terms (provide code if required to explain): (1.5*6=9)
- (a) Image maps (b) FORMS in HTML (c) Architecture of PHP
(d) Zend Engine (e) Data binding (f) DOM