

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- October 2017

B.Tech (Bioinformatics) Vth Semester

COURSE CODE: 10B11BI512

MAX. MARKS: 25

COURSE NAME: Scripting Languages for Bioinformatics

COURSE CREDITS: 4

MAX. TIME: 1.5 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q.1. Why JS is called object based language? Discuss various features of JS with their applications. [3]

Q.2. What are various kind of CSS? Explain each with an example to generate a dynamic content on web. [4]

Q.3. Differentiate between following:

(a) DHTML and HTML (b) substr() and substring() [2]

Q.4. Write code in JS to implement Maths object through following:

(a) Sqrt() (b) Sin() (c) Pi() [3]

Q.5. What do you understand by regular expressions (REs)? How regular expressions are being classified in JS? Describe each class with a suitable example. Also discuss the implementation of REs for the biological sequences (DNA and Amino Acid) of your choice. [6]

Q.6. Apply following functions through code implementation. Also produce the output and return values for each function:

(i) prompt() (ii) shift() (iii) push() (iv) splice()
(v) floor() (vi) round() (vii) charCodeAt() [7]