COURSE CODE: 10B11BI512   MAX. MARKS: 35

COURSE NAME: Scripting Languages for Bioinformatics

COURSE CREDITS: 4   MAX. TIME: 2HR

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

1. Answer following in brief:
   (a) Conditional operator   (b) PHP's standard global variables   (c) EGPCS
   (d) a+ mode of file   (e) PEAR   [1*5 = 5] (CO: 3-5)

2. Expand the following:
   (a) SNMP   (b) GNU   (c) LDAP   (d) JPEG   (e) CGI   (f) ODBC   (g) XML   (h) PHP   (i) PNG   (j) SOAP   [0.5*10 = 5] (CO: 1-5)

3. Implement following PHP functions: [1*10 = 10] (CO: 3-4)
   (a) fpassthru()   (b) range()   (c) fseek()   (d) unlink()
   (e) uasort()   (f) fputs()   (g) fgetc()   (h) mysql_connect
   (i) mysql_fetch_row   (j) arsort()

4. Discuss and implement JS features through following functions: [1*5 = 5] (CO: 2-3)
   (a) indexOf()   (b) CharCodeAt()   (c) abs()   (d) toUTCString()   (e) pow()

5. Discuss following in details with an example of each: [2*5 = 10] (CO: 1-5)
   (a) Graphics in PHP.
   (b) DHTML and implementation of CSS.
   (c) Utilization of scripting languages for the betterment of Bioinformatics.
   (d) How to read standard biological format files (e.g. FASTA) through JS and PHP.
   (e) How the contents of the file read in option (d) of this question be displayed on the GUI, both through JS and PHP.