

5/H-80 (xiv) (a) (Syllabus-2015)

Odd Semester, 2020

(Held in March, 2021)

COMPUTER APPLICATION

(Honours)

[BCA-503(a)]

**(Internet and Web Technology using
MYSQL and PHP)**

Marks : 45

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Explain the following : 2+2+2½+2½=9
- (a) Client tier
 - (b) Middle tier
 - (c) Server side scripting
 - (d) Client side scripting
2. (a) Explain the difference between an HTTP request and an HTTP response. 5

(2)

- (b) Write the syntax and describe the usage of the following string functions : 2+2=4
- (i) indexOf()
 - (ii) slice()

UNIT—II

3. (a) Write a PHP script to reverse a given number and to check whether the reverse and the original are equal or not. 6
- (b) Create a regular expression pattern that matches any valid email address. 3
4. What is an array? Explain associative and heterogeneous array with an example. 3+6=9

UNIT—III

5. (a) Differentiate between a constructor and a destructor. 5
- (b) Explain the two ways in which constructor can be defined. 4
6. (a) Explain with an example the error handling mechanism using *throw* and *try...catch* statement. 6
- (b) Differentiate between abstract classes and interfaces. 3

UNIT—IV

7. A database comprises of the following tables :

Employee (ssn, name, address)

Project (pno, pname)

Works_On (ssn, pno, hours)

Write an SQL command to satisfy the following :

- (a) List the names and addresses of all employees.
- (b) For each employee, list the Employee's name, project name in which each employee works.
- (c) For each employee, list the Employee's name and the total time (i.e., sum of hours) in which each works on the project(s). 3+3+3=9

8. (a) Briefly discuss the following functions : 2×3=6

(i) mysql_fetch_array()

(ii) mysql_connect()

(iii) mysql_fetch_assoc()

- (b) Explain the purpose of GROUP BY, and HAVING clause of the SQL Select statement. 3

(4)

UNIT—V

9. What is a session? What are the two components of a session? Explain the three characteristics of session management on the web. 2+2+5=9
10. What is meant by validation? Explain the various forms of error reporting. 3+6=9
