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(February)

COMPUTER APPLICATION

(Honours)

(Internet and Web Technology using
MYSQL and PHP)

[BCA-503(a)]

Marks : 45

Time : 2 hours

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

Answer **one** question from each Unit

UNIT—I

1. What is HTTP? Describe any four HTTP request methods. 2+7=9
2. Write the syntax and describe the usage of the following functions : 3×3=9
 - (a) slice()
 - (b) replace()
 - (c) indexOf()

UNIT—II

3. Write a PHP function to determine whether a given number is a Niven number. 9

Hint: A Niven number is a number that is divisible by the sum of its digits.

For example—if the number 126.

The sum of its digit = 1+2+6=9 and 126 is divisible by 9.

4. (a) Write a PHP script using regular expression to remove all occurrences of special characters from a string. 3

Sample string : 'The.;) quick brown \$%Fox jumps ##over the lazy ?Dog!!!!'

Output : 'The quick brown Fox jumps over the lazy Dog'

- (b) Create a regular expression pattern that matches any valid URL. 3
- (c) What is an associative array? 3

UNIT—III

5. What are class properties? How do you declare and invoke a class property? Describe the five class property scopes.

1+3+5=9

(3)

6. (a) Differentiate between a constructor and a destructor. 5
- (b) Write a short note on a static member of a class. 4

UNIT—IV

7. Consider the following tables :

student(rollno, name, address, dno)

teacher(teacherid, name)

department(dno, dname, hod)

exam(examid, rollno, totalmarks, division)

Write SQL statements for the following queries :

- (a) List all student's names, addresses, and department names. 2
- (b) For each department, list the department name and the name of the head of the department. 2
- (c) Count the total number of students in each department. 3
- (d) List student's names, department names and division for all students securing first division. 2

(4)

8. Give the syntaxes and explain the **mysql_fetch_array()**, **mysql_fetch_row()** and **mysql_fetch_field()** functions. 3×3=9

UNIT—V

9. What is meant by validation? Discuss some of the common error reporting approaches. 2+7=9
10. What is a session? Describe the usage of the following functions : 3+2+2+2=9
- (a) **session_start()**
- (b) **session_id()**
- (c) **session_destroy()**
