

Professional Course Examination, May 2022

(4th Semester)

BACHELOR OF COMPUTER APPLICATIONS

(Web Programming)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(PART : A—OBJECTIVE)

(Marks : 25)

SECTION—I

(Marks : 15)

Choose the correct answer from the options provided :

1×10=10

1. PHP is

- (a) compiled language
- (b) interpreted language
- (c) assembly language
- (d) None of the above

2. MySQL is a/an

- (a) database
- (b) web server
- (c) application software
- (d) spreadsheet

- 3.** `$_SESSION` is
- (a) global variable
 - (b) an array
 - (c) Both (a) and (b)
 - (d) None of the above
- 4.** When passing large or secret information from one page to another, we use
- (a) `$_GET`
 - (b) `$_POST`
 - (c) `$_SECRET`
 - (d) `$_LARGE`
- 5.** Associative arrays differ from numerically indexed arrays on the
- (a) use of only ASCII characters as index
 - (b) use of only numerics as index
 - (c) possible use of strings and numerics as index
 - (d) None of the above
- 6.** Session is in the _____ whereas cache is in the _____.
- (a) RAM, storage
 - (b) storage, RAM
 - (c) MySQL, PHP
 - (d) PHP, MySQL
- 7.** Members of a class can be accessed using objects by putting
- (a) dot (.)
 - (b) `->`
 - (c) `=>`
 - (d) `::`

- 8.** Which of the following characters is used for escaping certain symbols from their usual meanings?
- (a) &
 - (b) \
 - (c) /
 - (d) #
- 9.** Which MySQL command is used to get data from the database?
- (a) GET
 - (b) POST
 - (c) SELECT
 - (d) EXTRACT
- 10.** Which MySQL command is used to update the existing row in the database?
- (a) INSERT
 - (b) SAVE
 - (c) ALTER
 - (d) UPDATE

State whether the following statements are True or False :

1×5=5

1. In PHP, a variable needs to be declared before use.
2. Indentation is required in PHP.
3. PHP supports object-oriented concepts.
4. MySQL is the only database that can be used on web environment.
5. MySQL views can be sometimes updated and values can also be inserted.

SECTION—II

(Marks : 10)

Answer the following questions :

2×5=10

1. (a) How do you manage sessions in PHP/Apache?

OR

(b) Write the difference between 'echo' and 'print' in PHP.

2. (a) What are 'objects' in PHP language?

OR

(b) Explain VIEW in a database.

3. (a) How do you display today's date with "dd/mm/yyyy" format?

OR

(b) Differentiate between 'include' and 'require' statements.

4. (a) On what occasions do you use 'UPDATE' and 'ALTER' statements?

OR

(b) How do you limit the number of rows to be returned to a fixed number (even if the total rows is larger)?

5. (a) What is a PHP constant? How do you create them?

OR

(b) How do you select only a portion of rows from a table satisfying certain criteria?

(PART : B—DESCRIPTIVE)

(Marks : 50)

Answer the following questions :

10×5=50

1. (a) Explain how data can be extracted from the database and make it available for display using PHP. 5
- (b) Explain how objects can be created in PHP. Give examples. 5

OR

- (c) What do you mean by abstract class? Also explain how they are used by giving examples. 5
- (d) Explain constructors in PHP and also give suitable examples. 5

2. (a) How do you use sessions to provide security in a PHP page? Explain. 5
- (b) What do you mean by SQL injection? How do you prevent them? 5

OR

- (c) Why do we require normalization in our database design? Give example. 5
- (d) How do we make a function to accept only certain data type that is passed through a parameter? Give example. 5

3. (a) Explain the different operators in PHP with examples. 5
- (b) How do you search for the presence (or absence) of a substring in a string in PHP? 5

OR

- (c) Explain the different string manipulation functions in PHP. 5
- (d) What do you mean by scope of a variable? Explain the different situations where the scope of a variable affects the value of a common named variable. 5

4. (a) Explain how the form value submitted by one PHP page can be received and displayed by another PHP page. Write necessary PHP codes for explanation. 10

OR

- (b) Write a PHP code to extract contents of a database table and display in the web page in a tabular form (HTML). 10

5. (a) Create a table 'Person' having fields : person_id (auto increment number and primary key), name, dob. Now, write a query for the following : 10

(i) Insert 5 rows into the table.

(ii) List out all rows with the names starting with 'R'.

(iii) List out all names who born before 12th August, 2000.

(iv) Update the name of a person to 'John' if the name is 'Jonh'.

OR

- (b) What do you mean by 'joining tables using primary-foreign keys'? Clearly explain how and why tables are joined by giving matching examples. 10
