

**M.Tech Sem-1 (WT) Examination
Web Application Development-I**

Time : 2-00 Hours]

March 2022

[Max. Marks : 100

Instructions:

1. Write each section in separate answer sheet.
2. Numbers to the right indicate full marks of the question.
3. Make appropriate assumption whenever necessary.

SECTION – I

Q-1 Attempt the following (any ten) 20

1. What are various PHP tag styles? Write one example of each tag style.
2. What are the two differences between a class constant and static method or static property?
3. What is a jagged array? Write one example of jagged array.
4. Explain explode function with its general syntax and example.
5. What do you mean by superglobal variable? Write only name of any two superglobal variables.
6. Differentiate == (==) and === (===) PHP operator with appropriate example.
7. Write only name of any four character classes used in POSIX style regular expression.
8. What is the meaning of following special character used in POSIX regular expression outside square bracket
I. ^ II. . (dot)
9. Write only name of various data types available in PHP.
10. What will be output of the following code:

```
$value = 3.48;
$ceil = ceil($value);
echo "<br> $ceil ";
$floor = floor($value);
echo "<br> $floor ";
```

11. What is an associative array? Write one example of associative array.
12. What do you mean by weakly typed language? Is PHP weakly typed language?

Q-2 Attempt the following (any four) 20

1. What are the PHP's strength? Explain any three PHP's strength compare to its competitors.
2. What do you mean by identifiers for PHP? Write the rules for identifiers.
3. List and explain any five built-in methods of Exception class.
4. Explain the meaning of following for Object-Oriented concepts in PHP:
I. class II. object III. interface IV. overriding V. polymorphism
5. Explain the following function with appropriate example.
i. func_num_args ii. func_get_args iii. Shuffle

P. T. O.

Q-3 Attempt the following (any two)

10

1. Write a PHP script which allows user to enter marks obtained and total marks. Based on these data, the program will display percentage obtained and the grade. Grade will be as follow:
If percentage ≥ 80 then A Grade
If percentage ≥ 70 then B Grade
If percentage ≥ 60 then C Grade
If percentage ≥ 50 then D grade
2. Explain with example use of the functions in PHP
i. empty ii. isnumeric iii. require iv. include
3. Create a class named category with attributes catname and manf for categoryname and manufacturer. Also create an interface name categorytype with method prodinfo. The method prodinfo will display all the details of products (pid, pname, catname and manf). Create a class product with attributes pid and pname. The class products inherit class category and implements interface categorytype.

SECTION – II**Q-4 Attempt the following (any ten)**

20

1. What are the four levels of privilege available in MySQL?
2. Differentiate enum and set data type of MySQL.
3. What is the principle of least privilege?
4. What is the maximum length of mysql identifier for
I. Database II. Column
5. Write only name of various types of relationship between data in two tables.
6. List and explain wild card characters that are typically used with like operator in Mysql?
7. Write only name of DML statements.
8. What do you mean by anomalies? Write only name of various anomalies in a relation.
9. Write only name of any four grant tables.
10. Write only name of any four aggregate functions of MySQL.
11. Write the command to create user as username Tom and password as Jerry in MySQL.
12. What do you mean by Referential Integrity? How it is maintained by MySQL?

Q-5 Attempt the following (any four)

20

1. Explain state management technique in PHP.
2. Explain web database architecture with appropriate diagram.
3. Explain following RDBMS concepts:
i. table ii. attribute iii. record iv. value v. schema
4. Compare following subquery operators with appropriate example.
1. ANY 2. ALL
5. Explain the following PHP functions with appropriate example:
i. mktime ii. strtotime iii. Date

Q-6 Attempt the following (any two)

10

1. What do you mean by cookies? What are the typical uses of cookies?
2. List and explain various File Modes with their name and use.
3. List and explain various elements (keys) of nested array in \$_FILE.