

Ex/MLDL/7.3/21/2017

**MASTER OF LIBRARY AND INFORMATION SCIENCE  
IN DIGITAL LIBRARY EXAMINATION, 2017**

**(3rd Semester)**

**INFORMATION TECHNOLOGY - II**

**Paper : MLDL - 7.3**

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.*

Answer *all* questions.

- 1.(A) What is Scripting language and why is it used ? Write a Java Script code which shows the factorial of number from 1 to 9. What are the basic data types in Perl language ? Write a program in Perl which show your Name and Address in different lines. 4+4+3+4

*Or,*

- 1.(B) (a) What would be the output of the following JavaScript code ?

```
<html>
```

```
<head>
```

```
<script type="text/JavaScript">
```

```
function popup () {
```

[*Turn over*]

[ 2 ]

```
alert ("Hello Student")
}
</script>
</head>
<body>
<input type="button"onclick="popup()" value="Click
Me">
</body>
</html>
```

- (b) Write a JavaScript code to convert temperature in Fahrenheit to Centigrade according to the following formula :

$$C = (F - 32) * 5/9$$

- (c) Enumerate the rules for writing a PHP program with a suitable example. 5+5+5

- 2.(A) (a) Explain the following functions of MySQL with suitable examples :

(i) curdate ( )      (ii) to\_days ( )  
(iii) date\_add ( )    (iv) dayname ( )

- (b) Consider the following PRODUCT table :

[Turn over]

[ 3 ]

**TABLE : PRODUCT**

PCODE	PNAME	COMPANY	PRICE	STOCK	MANUFACTURE	WARRANTY
P001	Laptop	Lenovo	40000	5	25-04-2014	3
P002	Laptop	Lenovo	35000	3	21-06-2015	3
P003	PC	HP	35000	20	30-03-2015	2
P004	PC	HP	30000	15	17-09-2014	2
P005	Pro-jector	SONY	60000	2	25-09-2014	1

Write MySQL commands for the following Statements :

- (i) To show details of all the PC with stock more than 10.
- (ii) To list the company which gives warranty for more than 2 years.
- (iii) To find stock value of the HP company where stock value is sum of the products of price and stock.
- (iv) To show number of products from each company.
- (v) To count the number of PRODUCTS which are manufactured in 2014.

[Turn over]

[ 4 ]

Give the output of the following MySQL statement.

(vi) Select COUNT (distinct company) from PRODUCT;

(vii) Select MAX (price) from PRODUCT where  
WARRANTY <=2;

(viii) Select AVG (price) from PRODUCT where Company=  
'Lenovo';

(ix) Select MIN (price) from PRODUCT where stock <20;  
6+9

*Or;*

2. (B) (a) Write basic data types available in Java. What do  
you mean by 'command line arguments' in Java ?

(b) Write a program in Java to print the following  
pattern :

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

[*Turn over*]

[ 5 ]

(c) Write a program in Java to calculate and print the Factorial of a number. Take input as command line argument. 5+5+5

3. Write short notes on any *two* of the following : 5×2

(a) Object Oriented Languages

(b) JavaScript Function

(c) Join in MySql

(d) Relational operators in Java

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