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Code Number 065/2



INDIAN SCHOOL MUSCAT
FIRST PRELIMINARY EXAMINATION
SUBJECT : INFORMATICS PRACTICES

(Answer Key)

CLASS: XII

Sub.Code: 065

Time Allotted: 3

Hrs.

12.12.2017

Max.Marks: 70

Instructions:

1. All the questions are compulsory
2. Read the Question carefully and write the Answer

- Q1. (a) TelNet 1 Mark 1
- (b) It refers to unauthorized access of someone else data, e-mail, computer activity or data communication. 1 Mark 1
- (c) Repeater : A Repeater is a device that is used to regenerate the received signals and re-transmits to its destination. 1 Mark 2
- Gateway : A Gateway is a device that connects dissimilar networks. It establishes connection between LAN and External Network with different structure of protocol.
- (d) Write one point of difference between a freeware and free software? 2
- Freeware which is available free of cost and which allows copying and further distribution, but not modification and whose source code is not available. 1 Mark
- Free Software means the software is freely accessible and can be freely used, changed, improved, copied and distributed by all who wish to do so. And no payments are needed to be made for free software. 1 Mark
- (e) Satellite 2
- (f) any one advantage and one disadvantage of star topology $\frac{1}{2} + \frac{1}{2} = 1$ Mark 1
- Advantages:
- Easy to setup and expand.
 - Easy to locate fault in case of network failure.
 - It offers centralized control over the network.
- Disadvantages:
- Increases cabling cost since each node is directly connected to the central node.
 - Difficult to expand due to limited connecting points at central node or device.
 - All nodes are dependent on central node. if the central

device (Switch) goes down then entire network breakdown.

(g)MAN(Metropolitan Area Network) 1

Q2. (a)System.exit(0); 1Mark 1

(b)Write a java code that accepts two numbers from the user and print the smaller one. 2

Declaring two variables and accepting values 1- Mark

Using if statement with proper syntax and printing result – 1 Mark

(c) What will be the value of sum after executing the following code: 2

Sum =15 1 Mark workout – 1 Mark

(d) Entry Level Loop-It is used to check the condition from the beginning of the loop, if the 2

condition satisfies then the loop body executes otherwise the loop terminates. Example

coding (for and While) 1 Mark

Exit Level Loop- It is used to check the loop condition towards the end of the loop, if the loop condition satisfies then the loop body executes otherwise the loop terminates, this loop executes atleast once. Explain with an Example. (do... while) 1 Mark

(e) jTextArea1.append(“ABC”); 1

(f) 5 Times 1 Mark and Entry Level – 1Mark 2

Q3. (a) RollBack 1

(b)use stud1234; 1

Select * from student;

(c)it is used to count number of records from each city. 1

(d)Alter Table student drop column email_id; 1

(e)Equi- Join: It is used to combine two or more tables with the use of common field and 2

the equality sign. Ex; select ename,danme from emp,dept where emp.deptno=dept.deptno; 1 Mark

Cross Join: it simply matches all the rows of the first table with all the rows of the second table. Ex: select * from emp,dept; 1 Mark

(f) The CoachName column of a table “Club” is given below: 2

(a) SELECT CoachName FROM CLUB WHERE CoachName LIKE '%a%';

Raghav

Anurag 1 Mark

(b) SELECT CoachName FROM CLUB WHERE CoachName LIKE 'a%';

Anurag 1 Mark

- (g) A table book in a database has 5 columns and no rows in it. What is its degree? 2
 5 1 Mark
 What will be its degree if 3 rows are added in the table?
 5 1 Mark
- Q4. (a) Given an int variable K with value 102. It is to be converted into equivalent string i.e "102". What are the two ways of doing that? 2
 Integer.parseInt(K); 1 Mark "+K - 1 Mark
- (b) What will be the content of JTextArea1 after executing the following statement : 2
 JTextArea1.setText("javais\n wonderful programming\t language");
 Java is
 an wonderful programming language
- (c) Rewrite the following program code using a Switch statement: 2
 Using the proper syntax of switch ... case 2 Marks
- (d) 2
 If there is no break statement between two case statement in switch case is called FallThrough. 1 Mark Proper Example : 1 Mark
- (e) 3.0 and MicroSystem^{1/2}+^{1/2} = 1 Mark 1
- (f)
- (a) Write a Java code to calculate the discount based on the above criteria. 2
 Declaring the variables, accepting values and using formula - 2 marks
- (b) Write a Java code to Disable the discount Text Field. 1
 Using setEnabled(false) 1 Mark
- (c) Write a Java code to close the application when you click the Exit button. 1
 System.exit(0);
- (d) Write a Java code to enter only positive value in Amount Text Field. If the user 2
 enters the negative value display an error message through the Dialog window and clear the text field.
 Declaring variable accepting values and using if statement - 2 Marks
- Q5. (a) Write the output of the following SQL queries. 1
1. SELECT CONCAT(LOWER('Class'), UPPER('xii'));
 classXII
 2. SELECT ROUND(245.678,2);
 245.68
 3. SELECT DAYOFYEAR('2010-02-16');
 47
 4. SELECT MOD(11,4);
 3

- (b) Update command is used to change the table values 2
Update emp set sal=sal+100; 1 Mark
Alter command is used to change the structure of the table
Alter table emp add salint(2); 1 Mark
- (c) Write a MySQL command to display all the table names from EMP database. 1
- (d) Write MySQL commands for (a) to (d) and write the output of (e) on the basis of table Employee: 6

- a) To display the name of all employees who are in the area south.
Select Name from employee where area='south';
- b) To display name and age of all employees having age >40.
Select name,age from employee where age>40;
- c) To display list of all employees whose salary >= 30,000 and <= 40,000.
Select name from employee where salary between 30000 and 40000; or
Select name from employee where salary >=30000 and salary <=40000;
- d) To display the employee name whose name start with K
Select name from employee where name like 'K%';
- e) Write the **output** of the following commands based on the given table "Employee".
- i. Select sum(Salary)from employee where Grade= "A";
106000
 - ii. Select count(Distinct DEPT)from employee;
4

- Q6. (a) What is the use of AutoCommit in MySQL? How will you switch off the Auto commit in MySQL? 2
Commit is used to save the changes permanent. 1 Mark
SET AutoCommit =0;

- (b) Write the SQL command to create a table Sports with the following structure: 2

TABLE :SPORTS

Create table sports(sno int(3) Primary Key, Name varchar(20) Not Null, Age Int(2), Address Varchar(30), City varchar(10));

(c) In a database there are two tables “ITEM”, and “Customer” as shown below:

6

- i. To display the details of items whose price is in the range of 70 and 95.
Select * from item where price between 70 and 95; 2 Marks
- ii. To display the Clientname, City from Customer and Item name and price from table Item, with their corresponding matching ID
Select Clientname,city,Productname,price from customer,item where
customer.p_id=item.p_id; 2 Marks
- iii. To Increase the price of all the products by 10
Update Item set price=price+10; 2 Marks

Q7. (a) What control will you suggest for the following:

2

S.No	Control used to	Control
1	A mouse click	Button
2	Typed text(Multiple line)	TextArea
3	Choose gender(M/F)	Radio Button
4	Submit the form	Button

(b) any two points 1+1 =2 Marks

2

(c) Write any two e-Governance web site names.

1

www.mca.gov.in
www.passport.gov.in
www.incometaxindia.com
<http://india.giv.in>
<http://drdo.nic.in>
<http://supremecourtindia.nic.in>
<http://www.indiancourts.nic.in>
<http://rti.gov.in>
<http://indianairforce.nic.in>
<http://indiannavy.nic.in>
<http://indianarmy.nic.in>

any two web site names $\frac{1}{2} + \frac{1}{2} = 1$ Mark

*****End of the Question Paper*****