



**INDIAN SCHOOL SOHAR
PRE BOARD EXAM (2016-17)
INFORMATICS PRACTICES (065)**

Class: XII

Date: 22 January, 2017

Marks: 70

Time: 3 Hours

Note:

- *Please check that this question paper contains 4 printed pages.*
- *Please check that this question paper contains 7 questions.*
- *Please write down the Serial Number of the question before attempting it.*
- *All questions are compulsory.*
- *Answer the questions after carefully reading the text.*

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1. a) What do you understand by Network Security? Name two common threats to it. 2
b) What do the following top level domains signify? 2
i) .edu ii) .org iii) .net iv).nic
c) Expand the following terms: ISCI, ODF, JPEG, OSI. 2
d) Differentiate between RING and STAR topology. 2
e) What is an open standard? Give any two examples. 2

 2. a) Which HTML tags are used for: 2
i) displaying the text in heading format
ii) displaying a caption over a table
iii) defining a definition list
iv) comments
b) What is the use of **LINK, ALINK, VLINK** attribute of <body> tag? 2
c) Differentiate between IF and SWITCH statements. 2
d) Write any four features of XML. 2
e) What is the purpose of following statement? 1
`jTextField1.setText("Informatics".substring(3));`

 3. a) What do you understand by ALL or NONE in context of transaction handling? 2
b) What is a SAVEPOINT and ROLLBACK TO SAVEPOINT? 2
c) What is a join? How many different types of joins can you create in MySQL? 2
d) What is a foreign key? How do you define a foreign key in your table? 2
e) What is the purpose of DROP table command? How is it different from DELETE command? 2

4. Answer the following questions on the basis of screen given below:

Rate	Breakfast	Lunch	Dinner
Veg	100	200	300
Non Veg	200	400	500

- a) Write the code to clear all textfields, uncheck checkbox and set **Veg** as the default option 1
- b) Write the code to exit the application. Use `ConfirmDialog` with the following message **“Are you sure you want to Exit “** If only user presses **Yes** button then application should be closed. 1
- c) Write the code for calculate button to calculate amount as per the rate specified in the table, service tax (12% of amount) . Total bill amount=total + service tax. 2
5. a) Find the output: 2
- ```
int count, ans;
ans=1;
count =2;
do{
 ans = ans + count;
 count *= 3;
} while(count <=12);
JOptionPane.showMessageDialog(null, ans);
```
- b) Find the error(s). Rewrite the corrected code underlining the corrections made. 2
- ```
int Total = 0, Jump = 5;
int I;
```

```

for (i = 0, l =<5, i ++){
Jump+ =5,
Total +=Jump;
}
jTextAreal.showText (" " + Total) ;

```

- c) Define a class **STUDENT** with the following specification 2
- Private Members:**
- SName of type String
 - RollNo of type Integer
 - Stream of type String
 - Marks of type float
- Public Members:**
- A **constructor** to initialize data members as follows
- SName-Jack
 - RollNo-1
 - Stream-Science
 - Marks-88.5
- d) Convert the following segment into an equivalent FOR loop 2
- ```

int a=0,j ;
while(a!=20)
{ j+=a;
If(a%5==0)
{ a+=5; }
else
{ a+=1;}
a+=2;
}

```
- e) Write the HTML code for: 2
- i) producing a Textarea with 10 rows and 30 columns
  - ii) an ordered list starting with 'E'
- f) Create a Java method that receives a number as parameter and returns 1 if the number is a multiple of three else returns 0. 2

6. Answer the questions based on the Coach & Player tables given below:

Table : **MEMBER**

| Column Name | Data Type | Size | Constraint |
|-------------|-----------|------|------------|
| EmpID       | Integer   |      |            |
| Name        | Varchar   | 30   | NOT NULL   |
| Pay         | Integer   |      |            |
| Divno       | Integer   |      |            |

**Member**

| EmpID | Name     | Pay   | Divno |
|-------|----------|-------|-------|
| 1001  | Shankhya | 34000 | 10    |
| 1003  | Ridhima  | 32000 | 50    |
| 1002  | Sunish   | 45000 | 20    |

**Division**

| Divno | Divname    | Location  |
|-------|------------|-----------|
| 10    | Media      | Chennai   |
| 20    | Dance      | Bangalore |
| 30    | Production | Kochi     |
| 15    | Apollo     | Bangalore |

- a) Create table Member including its constraints 2
- b) Add a Primary Key constraint on EmpID 1
- c) What output, you will get, when an equal-join query is executed to get the Name from Member Table and corresponding from Division table? 1
- d) List all the details of 'Media' and 'Dance' members. 1
- e) Show ID, name and half yearly Pay of Apollo members. 1
- f) Insert a new row into member table: 1004, Rubina, 21000, 10 1
- g) Is there any discrepancy in the Member table? 1
- h) Display the average pay of all divisions. 1
- i) Add a new column Grade char(1) into member table. 1
- j) List the details of members whose name start with 'S' and has 'S' as second last character 1
- k) Increase pay of all members by 20% if it is less than 20000. 1
- l) Count the members at each location. 1
- m) Increase size of Name to 40. 1
- n) Delete records of members of Division 50. 1
- o) Show details of Chennai and Kochi workers not getting pay 20000-30000. 1
- p) Count the number of locations 1
- q) Give the O/P of:  
 i) Select Round(959.86, -1), Round(959.86,-2);  
 ii) Select POW(INSTR('Coordination ','o'),3) as ABC from dual;  
 iii) Select POWER(3,2)+TRUNCATE(10.67,0); 3
7. a) What benefits does an e-business offer to the shopkeepers? 2
- b) Write any two important features of e-Governance. 1
- c) Make an ER diagram that shows many tourists visit many places in a city. 1
- d) What is the impact of e-Learning sites on students learning process? 1

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