



INDIAN SCHOOL SOHAR
PRE BOARD (2018-19)
INFORMATICS PRACTICES (265)

CLASS: XII
DATE: 15/01/2019

MAX. MARKS: 70
DURATION: 3 HRS.

Instructions:

- 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) Write two disadvantages of twisted pair cables. 2
b) Explain in brief networking goals and needs. 2
c) Explain the difference between domain name and URL with the help of appropriate example of each. 2
d) Compare Free and Open Source Software. 2
e) What is MAC address? How many bytes does a MAC address consume? 2

2. a) Write four points of difference between HTML and XML. 2
b) Write HTML code to:
i) create a link wild.html for the text "Wild Life in park".
ii) draw a horizontal line that covers half the browser window
c) Differentiate between password field and text field. 2
d) Write the purpose of void keyword in method definition. 2
e) Given below is a code. 2

```
<message>  
  <text>Hello, world!</text>  
</message>
```

Which language is used to write the above code? What are <message>, </message>, <text> and </text>?

OR

Given below is HTML code. Rewrite the correct code underlining all the corrections done.

```
<ol type="A" start="D">  
  <li>Bake in oven for an hour  
  <li>Remove from oven  
  <li>Serve
```

- f) Write any two properties of a Constructor function. 2

3. a) What does consistency property imply? 1
b) Neha is not able to enter the details of students born after '30-Mar-2007'. Which constraint she might have specified when the table was created? 1

OR

Rakesh wrongly dropped a table named as STUDENT. Can he recover this table? Justify your answer.

- c) What is the purpose of the following query: 1
SELECT COUNT(*) FROM ELECTION GROUP BY city;

- d) A table Employee in a database has 4 columns and 2 rows in it. What will be the cardinality and degree if 3 more columns are added in the table? 1
- e) What is the role of DEFAULT constraint? Explain using suitable examples. 2

OR

What is the relationship between SQL and MySQL?

- f) What is the significance of wild card characters in SQL queries? 2

- g)

| Activity Name | ParticipantNo |
|---------------|---------------|
| Relay 100X 4 | 16 |
| High Jump | 10 |
| Shot Put | 12 |
| Long Jump | 12 |
| Discus Throw | 10 |

 2

Based on the information given in ACTIVITY table, find the output of following queries.

- a) SELECT COUNT(DISTINCT ParticipantNo) FROM ACTIVITY;
 b) SELECT ActivityName FROM ACTIVITY WHERE ActivityName LIKE '%p';

- 4 a) Rewrite the following program code using for loop. 2

```
int i=1, sum=0;
while (i<15){
    sum +=i;
    i +=2;}
```

OR

Rewrite the following code using 'while' loop:

```
int i, j=2;
for(i=1; i<=6; )
    i++;
    j+=2;
System.out.println("i=" + i + "j=" + j);
```

- b) Rewrite the corrected following code by underlining the corrected area 2

```
int i,c,a=5,b=0;
for(i=0,i<20,i++){
    if b=0 then
        break;
    else
        c=a/b;
    system.out.show("Quotient"+c);
```

- c) Rewrite the following code using if ..else. 2

```
switch(ch) {
    case 10: a++;
    case 20:
    case 30: c++;
    case 40: ++v;
    default: ++w;
}
```

d) What will be the output after executing the following code? 2

```

int fun(int n)
{ int r=(n%2==0)?1:0;
  return r;
}
int t=5,p;
do
{ p=fun(t);
  if(p==1)
    System.out.println(t+p);
  else
    System.out.print(t+p);
}while(++t<10);

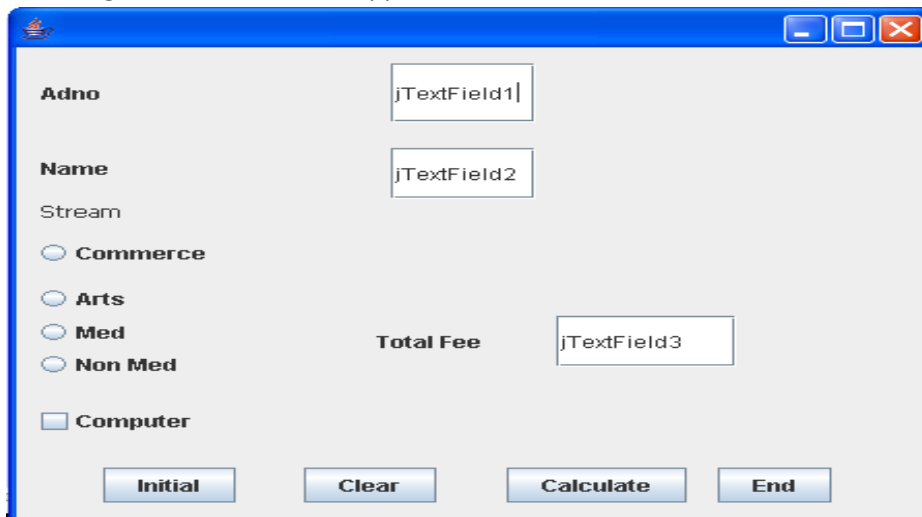
```

5. Blue Valley Public School has computerized its registration for class XI students. Given below is the data entry form for same. Answer the following questions: 1
- (i) On clicking the initial button jTextField1 and jTextField2 should be set as uneditable. 1
 - (ii) On clicking the Calculate button the Total Fee is calculated on the basis of the following criteria: 2

| Stream | Fee(Rs.) |
|-------------|----------|
| Commerce | 2500 |
| Arts | 2000 |
| Medical | 2900 |
| Non-Medical | 2800 |

The Total Fee should be displayed in jTextField3.

- (iii) If the student has opted for Computers Rs. 200 will be added to the total fee. The modified Total Fee should be displayed in jTextField3. 1
- (iv) On Clicking the End button the application will be closed. 1



6. Create table Event based on the structure given below: 2

Event

| Field | Data Type | Constraint |
|---------------|-------------|-------------|
| EventID | Integer | Primary Key |
| Event | Varchar(50) | |
| DateEvent | Date | |
| NumPerformers | Integer | |

7. Answer the questions give below:

Table: Workshop

| WorkshopId | Title | NumSpeakers | MeantFor | Fee |
|------------|----------------------|-------------|---------------------|------|
| 551 | Time Management | 3 | Senior Manager | 7000 |
| 553 | App Development | 1 | Computer Programmer | 9000 |
| 554 | Planning | 2 | Senior Manager | 8000 |
| 556 | Marketing Strategies | 2 | Junior Manager | 9000 |

Table: Participant

| ParticipantId | Name | WorkshopId |
|---------------|----------------|------------|
| 100 | Prabhu Shankar | 551 |
| 101 | Dev Sen | 554 |
| 102 | Fauzia Khan | 551 |
| 103 | Tom Winters | 553 |

- a) Workshop '552' is missing in the table Workshop. Is there any discrepancy? Workshop '551' is present twice in the table Participant. Is there any discrepancy? Give reasons for your answer. 1
- b) To display names of Participants along with workshop titles for only those workshops those have more than 2 speakers. 1
- c) To display ParticipantId, Participant's name, WorkshopId for workshops meant for Senior Managers and Junior Managers. 1
- d) Decrease the fee of all speakers by 10% if it is more than 9000. 1
- e) List the report displaying ID, title and Concession(10% of fee) for all workshops. 1
- f) Add a new column DOW (Dateof Workshop) as date into workshop table. 1
- g) List the details of workshops held in 2017. 1
- h) Show details of participants whose name has 'a' as 2nd as well as 3rd last character. 1
- i) Show details of managers whose fee is in the range 7000-8000 (including both values) 1
- j) Find the difference between highest and lowest fee. 1
- k) Count different categories of speakers. 1
- l) Write the O/P of:
- i) SELECT POW(INSTR('Coordination','o'),3) as ABC from dual;
 - ii) Select Title, Name from workshop, participant where workshop.workshopid= participant.workshopid;
 - iii) Select Avg(Fee) from workshop; 3
- m) Find error(s), if any, and rewrite the corrected code:
- i) Delete all from participant;
 - ii) Select Name as Participant Name from participant;
 - iii) Select workshop.* from workshop where fee>4000 and <5000; 3
- n) What output will you get, when an equi join query is executed to get the name of participants from Participant table and corresponding fee from Workshop table? 1
8. a) Define e-governance 2
- b) How can online retailers usually offer customers a wider range of products at prices that are lesser than those of traditional stores? 1
- c) What is m-commerce? 1
- d) How does E-business help organizations to provide better customer services? 1

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