

**INDIAN SCHOOL SOHAR**  
**FINAL EXAMINATION (2015-2016)**  
**INFORMATICS PRACTICES (065)**

- *Please check that this question paper contains 5 printed pages.*
- *Please check that this question paper contains 5 questions.*
- *Please write down the Serial Number of the question before attempting it.*

*Class: XI*

*Maximum Marks: 70*

*Date: 09 -03-2016*

*Time Allowed: 3 Hours*

*Note: (i) All the questions are compulsory.*

*(ii) Answer the questions after carefully reading the text.*

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- 1.
- a) What is MICR? Write any two advantages of MICR. 2
  - b) Differentiate between Firmware and Liveware. 2
  - c) Write short note on :- 2
    - i)Assembler            ii)Interpreter
  - d) Define the term: 2
    - i) Phishing    ii)Adware
  - e) What is Disk defragmentor?Why is disk fragmentation useful? 2
- 2.
- a) Which error is harder to locate and why? 2
  - b) How can an operator precedence be over ruled in an expression? 1
  - c) Write the equivalent java expression:  $2 - ye^{2y} + 4y$  1
  - d) Are values “*true*” and *true* the same? 1
  - e) Write the code that obtains the selected item of Combobox1(CB1) and adds it to the list of Combobox2(CB2). 1
  - f) What is column alias? 1
  - g) Define Alternate key. 1
  - h) What is DML? 1
  - i) What is Default value? How do you define it? What is the default value of column for which no default value is defined? 2
  - j) Differentiate between SUBSTR and INSTR function in sql. 2

3.

a) Predict the output after execution of the following code:

i) `int a=5;`

2

`int b=++a;`

`System.out.print(a);`

`System.out.print(++a);`

`System.out.println(--b);`

`System.out.print(a--);`

`System.out.print(b++);`

`System.out.println(a++);`

ii) `int i=1,sum=0;`

2

`while(i<=10)`

`{`

`sum=sum+i;`

`i+=3;`

`}`

`System.out.println(sum);`

b) Rewrite the following code using 'if...else' statement:

2

`switch(choice){`

`case 1: System.out.print("You selected 1");`

`break;`

`case 2:`

`case 3: System.out.print("You selected 2 or 3");`

`break;`

`case 4: System.out.print("You selected 4");`

`break;`

`default: System.out.print("Please enter your choice between 1-4");}`

c) Find the errors from the following code segment and rewrite the corrected code:

2

`string mess;`

`int Age=Integer.parseInt(txtN.getText());`

```
mess=(Age>=18)"eligible to caste vote":."under age";
```

```
JOptionPane.showMessageDialog(mess);
```

d) Rewrite the following code using 'for' loop:

2

```
int num=0,a=1,i=0;
while(i<10){
System.out.println(a);
num++;
if(i%2==0)
a +=num;
else
a -=num;

i++;}
```

e) Write java code to print the sum of the following series in JTextArea1:

2

$$\frac{1}{2} + \frac{3}{4} + \frac{5}{6} + \dots + \frac{n}{n+1}$$

f) Write a program to check whether a number is prime or not.

2

g) Design the following application and answer the questions that follow :

i) Write the code for Clear button to clear all the textfields (txtPrinciple & txtTime) and checkbox. Set the default choice in the radio button as Fixed Deposit(radioFD).

1

ii) Write the code for Amount button to calculate Amount ( $P*(1+R/100)^T$ ) and display the value in the textfield(txtAmount).

2

iii) Write the code to calculate Interest (Amount – Principle amount) and display the value in the textfield(txtInterest).

1

iv) Write codes to exit the application displaying a message "Thank you".

1

Rate(R) is calculated based on the time according to the following table:

Account	Time	Rate
Fixed deposit	1-5	12%
	>5	15%
Recurring Deposit	2-7	11%
	>7	15%

An additional rate of 2% is given to the senior citizens i.e. if the chkSR checkbox is checked.

4.

a) Write SQL commands for the following :

**TableStructure : Coach**

Column name	Data Type	Constraint
Coach_id	Number(2)	Primary key
Coach_name	Varchar(20)	
Age	Int(2)	
Sports	Varchar(20)	
Payment	Int(8)	
Sex	Char(1)	

**Table :Coach**

Coach_id	Coach_name	Age	Sports	Payment	Sex
1	Karan	34	Swimming	10000	M
2	Zubin	36	Basketball	15000	M
3	Juana	34	Squash	12000	F
4	Ravina	37	Swimming	10000	F
5	Zareen	33	Karate	11000	M

i) Create table Coach on the table structure given above.

2

- ii) Insert a new row into the table:6,Kishore,34,Cricket,18000,M. 1
  - iii) Add a not null constraint on Coach\_name. 1
  - iv) Display a report listing Coach\_name,Sports ,Payment and Annual\_payment received in a year assuming that the payment is paid on monthly basis. 1
  - v) Minimize the size of column Sports to 15. 1
  - vi) Increase the payment of swimming coaches by 1000. 1
  - vii) Display the details of coaches who have 6 lettered names. 1
  - viii) Change the name of column Coach\_id to CID. 1
  - ix) Add a new column Phone as int(10) into the table. 1
  - x) List all unique sports in the table Coach. 1
  - xi) Change the Coach of basketball to Sanjay. 1
  - xii) Delete the records of Coaches whose Coach\_id is 5. 1
  - xiii) Increment the payment of coaches by 20% if it is less than 12000. 1
  - xiv) List Coach\_id, Coach\_name, Sports and position of character 'a' in names of all coaches. 1
  - xv) Remove column Sex. 1
  - xvi) Create another table 'Coach\_1' from existing table Coach with id, coach name, sports and Annual\_payment of all coaches. 1
- b) Write the output of the following queries:
- i) Select Round(678.293,-1), Truncate(678.293,-2); 1
  - ii) Select Ucase(MID("Practices",3,3)); 1
  - iii) Select sign(-4/3\*5/2-2); 1
  - iv) Select pow(9,3) , 9%3; 1
- c) Remove the errors (if any) from the following queries and rewrite the corrected ones.
- i) Select Uppercase("COACH"); 1
  - ii) Select current\_date; 1
- 5.**
- a) What do you think E-learning courses have high dropout rate? 1
  - b) What are the benefits does E-business offer to an organization? 2
  - c) Name two E-Governance sites. 1
  - d) Define the term Infomania. 1

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