

International Indian School - Dammam
Model Examination 2018

Subject : Informatics Practices
Class : XI

SET A

Time allowed : 3 hours
MM: 70

- 1 a) 1GB = _____ KB (1)
b) Define Data BUS (1)
c) What are the various tools of Integrated Development Environment ? (2)
d) Sending Obscene or Offensive messages is a form of _____ (1)
e) Define with example (2)
 i) Parallel port
 ii) Language processor
f) Define system software , File access permission (2)
g) Define object program (1)
- 2 a) Mr. James is advised to use List and Combo box for too many options as compared to radio button and check box. Help him to know many benefits of it. (1)
- b) What is the use of toString() ? (1)
c) The following code has some error(s). Rewrite the correct code underling all the corrections made. (2)
- ```
int x1,x2 = 5 ;
x1 == x2 + 2 ;
if (x1 = x2)
 jTextField1.setText ("x1 and x2 are equal ");
else jTextField1.setText ("x1 and x2 are unequal ");
```
- d) Rewrite the following code using for loop (2)
- ```
int num =1;  
do{  
    jTextArea1.setText(Integer.toString(++num)+ "\n");  
    num= num +1;  
}while(num<=10);
```
- e) What will be the output of the following ? (2)
- ```
int a = 2 , b = 3, c ,d ;
c = (5* ++a) /b;
d= ++c% a ;
jTextField1.setText(""+ c);
jTextFiedl2.setText(""+ d);
```
- f) Identify the valid variable names . (1)  
1Salary , Salary1, Salary 1 , - Salary1 ,Salary\_1
- 3 a) Write a java code that takes the monthly salary of a person in a textfield (salTf) and calculates and displays tax in another textfield (taxTf). (2)  
( Note : If monthly salary is greater than 5000 tax is 5 % otherwise 0 )
- b) What is wrong in the following statement ? state reason (1)  
char name = "Akhil " ;
- c) Name the various parts of a for loop. (1)
- d) Define exceptions , free formatting (2)

e) What is the significance of absence of break in switch statement ? (1)

f) What will be the final values of P and Q in the following code ? (2)

```
int P , Q =100 ;
for(P = 10 ; P<=12 ; P++)
{
 Q += P ;
}
JOptionPane.showMessageDialog(this,"P: "+ P + " Q:" + Q);
```

g) How will you display "together" , if two string variables s1 and s2 contains "to" and "gether" respectively. (1)

h) What is the purpose of following if(jList1.isSelectedIndex(0) == true ) (1)

i) Define with example (i) null statement (ii) infinite loop (2)

4(a)Ms. Sharma works as a programmer in "ABC Car Rental Company" where she has designed a software to compute charges to be paid by the client. A screenshot of the same is shown below :

ABC CAR RENTALS

NAME

PHONE NUMBER

Deluxe Car  GUIDE REQUIRED

Semi Deluxe Car

Ordinary Car

Car Required for No. of Days

CALCULATE CLEAR CLOSE

Amount

Guide Charges

Total Amount

A client can take any car out of Deluxe/SemiDeluxe/Ordinary for rent.

A client can also opt for services of a guide. Charges vary depending on the type of car opted.

Charges of services of Guide are extra as Rs 500 per day.

Help Ms. Sharma in writing the code to do the following :

- (i) After selecting appropriate Radio Button and checkbox(if required), when 'CALCULATE' button is clicked, Amount, Guide Charges and Total Amount should be calculated and displayed in the respective text fields. (3)

| Category of Car | Amount (in Rs) |
|-----------------|----------------|
| Deluxe Car      | 1000 per day   |
| Semi Deluxe Car | 800 per day    |
| Ordinary Car    | 700 per day    |

- (ii) Clear all radio buttons and disable calculate button (1)
- (iii) When 'CLOSE' button is clicked,the application should close. (1)

- b) Name the controls for the following (2)
- i) A brief description of yourself
  - ii) A message in front of a text field
  - iii) Choose a nationality from a given list
  - iv) To save the details

- c) Which error is harder to locate and why ? (1)

- 5 a) Define the following (2)
- i) Null (ii) &&

- b) How do you select all the rows from a table named "Student" where the value of the column "FName" starts with 'G' and ends with 'K' ? (2)

- c) Name a (1)
- i) date function that returns a string
  - ii) String function that returns a string

- d) Mr. Amit wants to change the first name "Madhur" to "Mridul" in the "FName" column in the 'Student' table, Write the statement for it. (2)

- e) Which statement is used to (i) To modify the data in a table (1)
- (ii) To extract the data from a table

- f) Rajat wants to delete the data from a table Sales of all the salesman for which salesmade after 10<sup>th</sup> Feb 2017 ( column : Date\_Sales). He writes the following query but not getting the correct result. Correct the query (2)

Drop \* Sales where SalesDate < '2017-02-10' ;

- 6 a) Write the output of the followings: (2)
- (i) Select round(-1.58)
  - (ii) Select pow( 2 , length ( 'New' ));
  - (iii) Select substring ( 'Computers',-5,3);
  - (iv) Select Rtrim('Informatics ');

b) Consider the following table Sales and answer the tasks that follow

Table: Sales

| FieldName    | DataType | Size |
|--------------|----------|------|
| SalesmanNo   | Integer  | 4    |
| SalesmanName | Varchar  | 20   |
| DateofSales  | Date     |      |
| MobileNo     | Integer  |      |

- i) Name the Candidate Key with suitable reason. (1)
  - ii) Write a SQL statement (2)  
To add one more attribute City of type varchar size 20
  - iii) Write a SQL statement (1)  
To display first 2 characters of salesman name
  - iv) How will you see all the columns with their datatypes and size (1)
  - v) Write the correct query (2)  
Select \* from Sales where Mobileno != NULL and SalesmanName is Ankit;
- c) Differentiate between CURDATE() and DATE() (1)
- d) Identify and make the pair of equivalent statements (2)
- (i) Select \* from employee where age between 28 and 35;
  - (ii) Select \* from employee where age IN(28,35);
  - (iii) Select \* from employee where age >=28 and age<=35;
  - (iv) Select \* from employee where age = 28 || age = 35;

7 Table "Friends" is shown below.

- a) Write commands in SQL for (i) to (iv) and output for (v) to (vi). (6)

Table : Friends

| S_No | Name      | Age | City       | Country   | Email_id          |
|------|-----------|-----|------------|-----------|-------------------|
| 1    | Alice     | 14  | Washington | USA       | alice@gmail.com   |
| 2    | Charles   | 12  | Copenhagen | Denmark   | charles@yahoo.com |
| 3    | Angel     | 16  | Chicago    | USA       | angel@gmail.com   |
| 4    | Jasmine   | 15  | Sydney     | Australia | jasmine@yahoo.com |
| 5    | Raj       | 14  | New Delhi  | India     | NULL              |
| 6    | Jette     | 13  | Nykobing   | Denmark   | abc@yahoo.com     |
| 7    | Alexander | 14  | Mebourne   | Australia | NULL              |

- i. To display list of all Indian friends whose age is more than 12 but less than 16 .
- ii. To display age and name of all friends whose city contains 'N' ;
- iii. To display the details in the reverse order of city.
- iv. To increase the age by 2 whose country is Australia
- v. Select instr(city,'a') from friends where country = 'USA';
- vi. Select mid(name,2,3) from friends where age >14 ;
  - b) What is the degree and cardinality of the given table if 2 more records are added and 1 column is deleted ? (1)
  - c) Mention the difference between data types of Age and Name. (1)