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**Code Number 065**



**INDIAN SCHOOL MUSCAT  
FINAL TERM EXAMINATION  
INFORMATICS PRACTICES**

**CLASS: XI**

**Sub. Code: 065**

**Time Allotted: 3 Hrs**

**18.02.2018**

**Max. Marks: 70**

**Instructions:**

- 1. All the questions are compulsory**
- 2. Section A: Introduction to Computer System (10 Marks)**
- 3. Section B: Introduction to Programming (25 Marks)**
- 4. Section C: Relational Database Management System (30 Marks)**
- 5. Section D: IT Application (5 Marks)**

**SECTION - A**

- 1. Write any one advantage and disadvantage of computer. 2
- 2. Define Memory. What is the elementary unit of memory? 2
- 3. What do you understand by the term OPERATING SYSTEM? Give any two examples. 2
- 4. Explain the following: 2
  - (a) ALU
  - (b) OCR
- 5. Define (a) Software (b) Disk Defragment 2

**SECTION – B**

- 1. Write any two methods of jTextField and jLabel. 1
- 2. How Check Box is different from Radio Button in Net beans IDE? Explain. 2
- 3. Define “fall through” with an example. 2
- 4. Write a JAVA code to accept any number from the user and check the number is “POSITIVE” or “NEGATIVE”. 2
- 5. Write a Java program to calculate the simple interest.  $si=(p*r*t)/100$  2
- 6. Which property is used to add a new element to the Combo Box? 1

7. Convert the following from if to switch.

```
if (res= =10)
System.out.println("PASS with Distinction")
else if(result = =8)
System.out.println("PASS");
else if(res= =4)
System.out.println("Work Hard");
else
System.out,print("Fail");
```

2

8. Mr. Amit has developed a Java application through which the students of her school can view their marks by entering their admission number. The marks are displayed in various text fields. What should she do so that the students are able to view, but not change their marks in text fields?

2

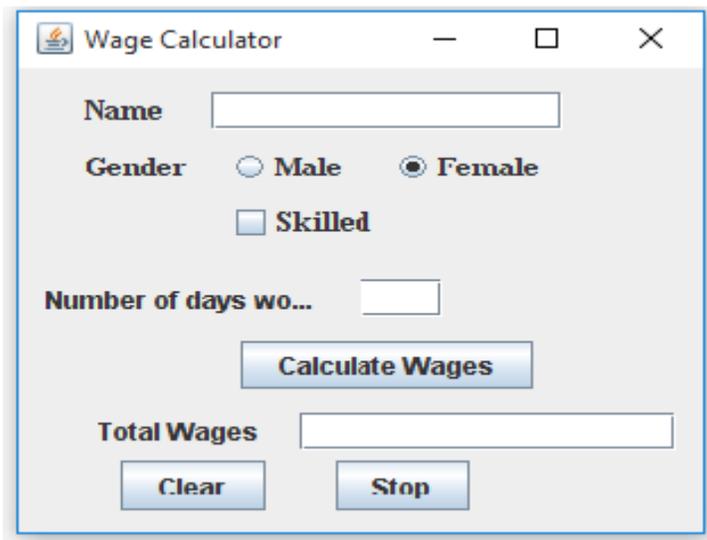
9. What is the value of x and y after the following loop executed.

2

```
int x, y;
for(x=15;x<=30;x=x+5)
{
y = x+10;
jTextArea1.append(" "+y); }
```

10. Read the following case study and answer the questions that follow :

Karan is a programmer at Alpha Builders. To calculate wages to be paid to labourers, he has developed the following GUI in NetBeans.



Male and Female labourers are respectively paid at the rate of 130/- per day and of 150/- per day.

Skilled labourers are paid extra at the rate of 100/- per day.

Write the code to do the following:

(i) Calculate and display the Total Wages in the corresponding Text Field when the “Calculate Wages” Button is pressed. 2

(ii) Write a java code to clear all the text fields and check box. 2

(iii) Write a java code to close the application. 1

11. What is the difference between **While loop** and **Do... while** ? Explain with an example. 2

12. Write a java program to accept any number from the user and check the accepted number is “Perfect Number” or “Not”. 2

### SECTION – C

1. While creating a table ‘STUD124’ Anitha forgot to set the primary key for the table. Give the statement which she should write now to set the column ‘ROLLNO’ as the Primary Key of the table? 2

2. How DDL is different from DML. Explain with an example. 2

3. A table “EMP457” in a database has 10 Columns and 2 rows in it. What is its cardinality? What will be its cardinality if 5 rows are added in the table? 2

4. Explain the following constraints: 2  
(a) Candidate Key (b) Not Null

5. “NAME” is a column in a table “SCHOOL”. The SQL queries: 2  
`SELECT COUNT (*) FROM SCHOOL;`  
and `SELECT COUNT(NAME) FROM SCHOOL;` give the result 20 and 19 respectively. What may be the possible reason for this? How many records are present in the table: 20 (or) 19.

6. The It\_No and Cost columns of a table 'ITEM' are given below:

It_No	Cost
101	5000
102	NULL
103	5000
104	6000
105	NULL

2

based on this information, find the output of the following queries:

(i) SELECT AVG(COST) FROM ITEM;

(ii) SELECT COST+400 FROM ITEM WHERE ITEM\_NO <= 103;

7. Find the output of the following:

(a) Select Truncate(674.674, 1),Round(563.76,-1);

(b) Select Substr("INDIA WELCOMES YOU",1,5) from dual;

(c) Select Dayofmonth("2015-04-20");

(d) Select mod(45,5);

2

8. How Order by Clause is different from Group by Clause in MySQL? Explain with an example.

2

9. If a database "STUDENT" exists, which command help you to start working in that database and write a command to display all the tables from the database STUDENT.

2

10. Create the table **STUD\_2018** based on the following fields:

Field Name	Data Type	Length	Constraints
<b>GRNO</b>	<b>int</b>	<b>4</b>	<b>Primary Key</b>
<b>Rollno</b>	<b>int</b>	<b>3</b>	
<b>St_name</b>	<b>varchar</b>	<b>20</b>	<b>Not Null</b>
<b>St_Class</b>	<b>int</b>		
<b>Total_Mark</b>	<b>int</b>	<b>4</b>	
<b>Average</b>	<b>decimal</b>	<b>5,2</b>	

2

11. Consider the following “EMPL134” table. Write the **MySQL queries from (a) to (g) and write the output of (h) & (j):**

Empno	Name	Job	Gender	Salary	Deptno
806	Manish	Clerk	M	23500	
774	Ranjith	Manager	M	75000	20
511	Anitha	Clerk	F	44000	30
313	Rhea	CEO	F	95000	10
255	Paul	Manager	M	56000	10
221	Karan	President	M	90000	40
124	Leon	Clerk	M	45000	20

- a. To display all the employee names and their salary who are all Clerk.
- b. Decrease the salary of all the employees by 2% those who are all in department number 10.
- c. To display Average salary of employees are there in department 20 and 10.
- d. To display all the Employee details whose Salary is in between 20000 and 50000.
- e. Delete all the records whose salary is less than 7000.
- f. Write a Query to display all the employee names, salary whose name ends with character ‘n’.
- g. Display the details of all the employees who are all not allotted for any department.
- h. Select name, salary- 1000 from employee where deptno=20;
- i. Select length(name) from employee;
- j. Add another column Remark Char(20) to the above table.

10\*1=10

**Section - D**

- 1 Write any two Advantage of e-governance . 1
- 2 Write any two disadvantages of E-Learning. 1
- 3. Define E-Business .Write any 2 web site names. 2
- 4. What do you understand by the term “Front End”? Explain. 1

**End of the Question Paper**