



**INDIAN SCHOOL MUSCAT
FIRST PRE-BOARD EXAMINATION 2019-2020
COMPUTER APPLICATION**

Subject code:165

CLASS: X

Time Allotted: 2 Hrs.

20-01-2020

Max.Marks: 30

General Instructions:

- The paper contains 4 sections – Section A, Section B, Section C and Section D
- Section A and B has to be attempted by all students.
- Students may attempt any one of the two - Section C (Scratch) OR Section D (Python)

Section – A

1. Expand the term SMTP. 1
2. Which of the following is/are a popular Web Browser(s)? 1
(i) Firefox (ii) Safari (iii) Navigator (iv) All of the above
3. What is the full form of bcc and cc. 1
4. Define URL. 1
5. Pick the odd man out : 1
a. Amazon b. e-bay c. Twitter d. Naaptol
6. A _____ is an economic and social inequality with regard to access to, use of, or impact of ICT. 1
7. Online textual talk is called as _____ 1

Section – B

8. Write any one application each of e-Governance and e-commerce. 2
9. What is a blog? Differentiate between a Blogger and BlogSpot. 2
10. Name the following with respect to HTML: 2
a) Tag to print the text in Italics.
b) Attribute to link a page to another page in <a>
11. Write a HTML code to display the following list: 2

1. BISCUITS
 - Digestive
 - Cream biscuit
2. Flavor milk

- Dates
- Mango
- C. Fruits
- D. Apple
- E. Pineapple

OR

Write HTML code to display the unordered list (with square bullets) of two cities “Chennai” and “Goa”. The web page should have a yellow background and the title of the page should be ‘My Favorite Cities’.

12. Form a CSS code within the <head>....</head> for the following specifications: 2
 - Background colour : Pink
 - For the paragraph,font family is Dotum and colour of the text is red
 - Heading should be in RED colour
13. Write the HTML code to do the following: 2
 - a) To display a horizontal line of red colour.
 - b) To set the image “Pen.jpg” stored in “My Pictures” folder in C:\ as background image of your webpage.
14. Create the following table with table border of 3 and cell spacing as 20 and cell padding as 20. 3

SERIALNO	CLASS	NUMBER OF STUDENTS		
		ENGLISH	HINDI	REGIONAL
1	X A	35	10	6
2	X B	31	15	4

Section – C (Scratch)- Optional Part

Section –D (Python)

18. Which of the following are invalid variable names in Python? 1
2RNO, MY_SCHOOL, True&False, GOODBYE
19. What will be output of the following expressions? 2

```
print ('Good Morning', end='\n')
print ('20'+ '20')
print ("HI" * 3,end='\n')
print (7+2)
```
20. Write a python program to assign 20 to A, 30 to B print the SUM, PRODUCT and Quotient of A & B. 2
21. Write a python program to print the first of 10 even numbers. 3

End of the Question Paper

Roll Number		
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SET -A



INDIAN SCHOOL MUSCAT

FIRST PRE-BOARD EXAMINATION

INFORMATICS PRACTICES

CLASS: XII
20.01.2020

Sub. Code: 265

Time Allotted: 3 Hrs.
Max. Marks: 70

Instructions:

- All the questions are compulsory.
- Read the Question carefully and write the Answer.

- Q1. a) Identify the odd one out of the following :
Optical Fiber/Coaxial Cable/Bluetooth/Twisted Pair Cable Give reason for your answer. 2
- b) How is it easier to diagnose fault in Star topology than in Bus topology ? 2
- c) What is the purpose of logical address of computer ? 2
- d) Does open source software only mean that the software is free of cost?
Give reason for your answer. 2
- e) Which of the following are valid IP addresses ? Give reason(s) if invalid. 2
- (i) 121.23.1.45
- (ii) 192.168.0.254
- (iii) 192.168.AS.1
- (iv) 198.-1.1.1
- Q2. a) Write the value that will be assigned to variable x after executing the following
statement : 1
- $x = 40 - 5 + 3 * 40/5;$
- b) Consider the statement : 1
- choice = 20.25;**
- What is the datatype of variable choice? Write a Java statement to declare the variable choice'.
- OR**
- Extract integer part of the choice and store it into another variable named as change.

c) While working in Netbeans IDE, Amit wants that the text in a Text area should move to the next line without breaking the word. Which Property would help him to do that ? 1

d) Write a Java statement to :
Append a string "INFO" to the text that is already in the text area named
jTextArea4. 1

e) Write the output of the following HTML code : 2

```
<ol start="7" Type="A">  
    <li>Bake the mixture in oven for an hour  
    <li>Remove from oven  
    <li>Allow the mixture to stand for ten minutes  
    <li>Server  
</ol>
```

OR

What is the difference between and ? Explain with an Example

f) Write any two difference between XML and HTML. 2
Find out the XML tag is valid or not <STUDENT> </student>

g) Rewrite the following code using if else if statement instead of switch : 2

```
switch (success) {  
    case -1:      x3 = "No result" ;  
                break;  
    case 0 :      x3 = "Final result- Not successful";  
                break;  
    default : x3 = "result NOT known";  
}
```

Q3. a) How a Table related to a database in MySql? Write any one feature of MySql. 1
b) Reshma wants to add another column 'Gender' in the already existing table 'CUSTOMERS'. She has written the following statement. 1
However, it has errors. Rewrite the correct statement.

MODIFY TABLE CUSTOMERS GENDER char(1);

c) Explain all the commands of Transaction Control Language. 2
d) In a hospital, the patients are allocated to wards. A database named 'Hospital' is created. One table in this database is : Ward with WardId, WardName, 2
NumberOfBeds as columns and WardId as the primary key.
Write another suitable table you could expect to see in the 'Hospital' database, with 3

suitable columns identifying Primary key and Foreign key in the table that you expect.

e) Given below is the 'Department' table :

DEPCODE	DEPNAME
101	ADMIN
102	RECEPTION
103	PERSONNEL

2

```
SET AUTOCOMMIT = 0;
```

```
UPDATE Department SET DEPNAME = 'HRD' WHERE
```

```
DEPNAME = 'ADMIN';
```

```
INSERT INTO Department VALUES(104,'OFFICE');
```

```
UPDATE Department SET DEPNAME = 'FRONT OFFICE' WHERE
```

```
DEPNAME = 'RECEPTION';
```

```
COMMIT;
```

```
DELETE FROM Department WHERE DEPNAME = 'FRONT
```

```
OFFICE';
```

```
ROLLBACK;
```

```
SELECT * FROM Department;
```

What will be the output of the above given SELECT statement ?

f) How is HAVING clause similar to WHERE clause ? How is HAVING clause different from WHERE clause ? Explain with the help of an example of each. **(or)** Explain ACID Property.

2

Q4. a) Write the values of r and s after the execution of the following code

```
int p = 21;
```

```
int q = 11;
```

```
int r;
```

```
int s;
```

```
r = ++q;
```

```
s = p++;
```

```
r++;
```

2

OR write any two relational operators with an example.

- b) What will be displayed in jTextField1 and jTextField2 after the following code is executed :

2

```
int ndigits = 0;

int N = 35;
while (N > 12) {
    ndigits = ndigits + 1;
    N = N - 10;
}
jTextField1.setText(" "+ndigits);
jTextField2.setText(" "+N);
```

- c) Write the value of C after executing the following code :

2

```
int P;
int R = 8;
int odd;
int C = 0;
for (P = 1; P < R; P = P + 3)
{
    odd = P % 2;
    if (odd == 1)
    {
        C = C + 1;
    }
}
```

- d) Write the value that will be stored in the variable t after the execution of the following code. How many times will the loop execute ?

2

```
int sum = 10;
int score = 0;
double t;
do
{
    score = score + 2;
    sum = sum + score;
}
while (score <= 5);
t = sum / 3;
```

OR Convert the above code to for loop.

- e) The following code has error(s). Rewrite the correct code underlining all the corrections made :

```
int j;  
int i=15;  
int flag = 1;  
  
while( j = 2 j < i; j++)  
{  
    if(i % j = 0)  
    {  
        flag == 0;  
        break;  
    }  
}
```

2

- f) Ms. Nafisa works as a programmer in “TelTel Mobile Company” where she has designed a software to compute charges to be paid by the mobile phone user. A screenshot of the same is shown below :

TelTel Mobile Company

Name

Mobile Phone Number

Number of Calls Made

Number of SMSs Sent

☐ Mobile Data Plan

Calculate Charges

Clear

Exit

Calls and SMS Charges:

Mobile Data Plan Charges:

Amount to Pay:

Each Call is charged at Rs. 1·00. Each SMS is charged at Rs. 0·50.

Users can also opt for Mobile Data Plan. Charges for Mobile Data Plan are flat Rs 50·00.

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

- a) When the 'Calculate Charges' button is clicked, 'Calls and SMS Charges', 'Mobile Data Plan Charges' and 'Amount to Pay' should be calculated and displayed in the respective text fields. 4
 'Amount to Pay' is calculated as :
 Calls and SMS Charges + Mobile Data Plan Charges (if any)
- b) When the 'Clear' button is clicked, all the textfields and checkbox should be cleared. 1
- c) When the 'Exit' button is clicked, the application should close. 1

Q5. Consider the Table "INFORM" shown below :

Table : Inform

ItemCode	Item	DatePurchase	UnitPrice	Discount
101	Frock	2016-01-23	700	10
102	Cot	2015-09-23	5000	25
103	Soft Toy	2016-06-17	800	10
104	Baby Socks	2014-10-16	100	7
105	Baby Suit	2015-09-20	500	5

Write the commands in SQL for (i) to (viii) and output for (ix) and (x).

- (i) To display the details about the Cot. 10
- (ii) To list the names of items and their unit price that have unit price less than 800 and discount more than 5%.
- (iii) To list the names of items and their date of purchase that were purchased after 31st December, 2015.
- (iv) To display the number of items that have more than 10% as discount.
- (v) To display item code and unit price in decreasing order of unit price.
- (vi) To increase the unit price of each item by 10% of their unit price.
- (vii) To display the highest unit price of items.
- (viii) To display the names of items that have 'Baby' anywhere in their item names.

(ix) SELECT MID (Item,1,2) FROM Inform;

(x) SELECT AVG(UnitPrice) FROM Inform WHERE DATEPURCHASE
>'2015-01-01';

- Q6. a) "A & A" Company conducts workshops for employees of organizations. The company requires data of workshops that are organized. Write SQL query to create a table 'Workshop' with the following structure :

2

Field	Type	Constraint
WorkshopId	Integer	Primary key
Title	Varchar(50)	
DateWorkshop	Date	
NumSpeakers	Integer	

- b) Consider the tables given below and answer the questions that follow :

Table : Event

EventId	Event	NumPerformers	CelebrityID
101	Birthday	10	C102
102	Promotion Party	20	C103
103	Engagement	12	C102
104	Wedding	15	C104

Table : Celebrity

CelebrityID	Name	Phone	FeeCharged
C101	Faiz Khan	99101956	200000
C102	Sanjay Kumar	893466448	250000
C103	Neera Khan Kapoor	981166568	300000
C104	Reena Bhatia	65877756	100000

- i. Name the Primary keys in both the tables and Foreign key in 'Event' table.
Can NumPerformers (Number for performers) be set as the Primary key ? Give reason. 1
- ii. How many rows will be present in the Cartesian join of the above mentioned two tables ? 1
In the table 'Event', the CelebrityID 102 is present twice in the column "CelebrityId". Is there any discrepancy ? Give reason.
- c) With reference to the above given tables (in Q6 b), write the commands in SQL for (i) to (iii). 6
- (i) To display EventId, Event name, Celebrity Id and Names of celebrities for only those events that have more than 10 performers.
- (ii) To display Event name, Celebrity Id and Names of celebrities who have "Khan" anywhere in their names.
- (iii) To display Event name, Names of celebrities and Fee charged for those celebrities who charge more than 200000.

- Q7. a) Ms. Reshmi is creating a form for Vidya University Sports Council application. Help her to choose the most appropriate controls from ListBox, ComboBox, TextField, TextArea, RadioButton, CheckBox, Label and Command Button for the following entries : 2

SNo.	Function
1	To let the user enter NAME
2	To let the user enter MOBILE NUMBER
3	To let the user choose one PROFESSION out of the categories : Teaching/Non-Teaching/Research Scholar
4	To let the user select facilities out of Gym, Yoga, Table Tennis, Badminton and Aerobics. More than one facility may be chosen.

- b) How do online retailers usually offer customers a wider range of products at prices that are lesser than those of traditional stores? 1
- c) List two disadvantages of e-governance to a disabled person. 2

End of the Question Paper