AMRITA VIDYALAYAM
ANNUAL EXAMINATION 2017 - '18

Class : XI   **Marks : 70**

                                                                                                   Time   : 3 hrs

INFORMATICS PRACTICES
SECTION - A

1. Explain the purpose of the following devices. Also specify what type of device and where it is used?   **4**
    a) Memory cards   b) Plotter   c) Biometric Sensors   d) Graphics tablet
2. What are communication ports? Differentiate between serial and parallel port with example.   **2**
3. What are language processors? Explain the different types of language processors.   **3**
4. Write the purpose of compression utility software.   **1**
5. Give two examples of the following software.   **1**
    a) Antivirus   b) Word processing software
6. What do you mean by IDE?   **1**
7. What do you mean by CAPTCHA?   **1**
8. Differentiate between digital certificate and digital signature.   **2**
9. What do you mean by 'paper laws' for 'paperless environment'? Explain.   **1**
10. Explain any one common threat pertaining in social networking sites and its precaution.   **2**
11. "I am the creeper, catch me if you can!" What does it imply? Explain.   **2**
12. What are comments? Explain the different types of comments and its use.   **3**
13. What are errors? Explain its classification.   **3**
14. Differentiate between Textfield and TextArea components. Also specify any one method of each component.   **2**
15. Explain the purpose of the following methods with example.   **4**
    a) toString()   b) concat()   c) parseDouble()   d) showMessageDialog()
16. Is a string containing a single character same as a char? Explain with an example. How will you declare variables of String and char datatypes? Also assign values to them.   **3**
17. To which control the selection mode property is used? What are the different values of selection mode? Explain.   **2**
18. Differentiate between getSelectedItem() and getSelectedValue(). To which control it is used? Explain.   **2**
19. Compare between Primary key, Alternate key and candidate key.   **3**
20. Differentiate between CHAR and VARCHAR datatype.   **2**
21. Explain about the wild card characters used in Mysql with example.   **2**

SECTION - B

22. Write the output for the following.   **2**

```
String s1,s2,s3,s4;
s1="Good";
s2="Morning";
s3=s2.concat(s1);
s4=s1+s2;
```

What will be the value of s3 and s4?

23. How many times the following loop get executed? **1**
```
int p=5,
int q=36;
while(p<=q)
      {  p+=6;
}
```

24. Rewrite the following program code using switch statement. **2**
```
if(c==1)
mon="Jan"
else if(c==5)
      mon="May";
else if(c==10)
      mon="Oct";
else
      mon="Dec";
```

25. Convert the following do while loop into a while loop. **2**
```
int i=0,x=0;
do
{
if(i==0)
{
x++;
jTextArea.append(""+x);
++i;
}
while(i<20);
```

26. Write a program in java which calculates the area and perimeter of a square and displays the result through MessageDialog accepting the side as input from the user. **4**

SECTION - C

27. Write the Mysql queries for the below from a) to g).
    a) Create a table with the following structure. **2**

    Table - Client

Field	Datatype(Size)	constraint
C_id	Int(5)	Not null
Cl_name	Varchar(15)	
City	Varchar(20)	
P_id	Char(7)	

    b) Add a new field Phone int(12). **1**
    c) Insert one record with the following values (1101, "Ram Sekhar", "Chennai" , "P003") **1**
    d) Change the city to Mumbai whose C_id is 107. **1**
    e) To display the client names in their ascending order of name whose name starts with A. **1**
    f) To remove the records whose city are Lucknow, Calcutta or Delhi (Use IN Operator). **1**
    g) Apply primary key to C_id. **1**

28.   Write the output for the folloing queries based on the table - Item given below.

Table - Item

Icode	Iname	Price	Qty	Brand
1111	Refrigerator	12000	7	LG
2222	Television	20000	5	Sony
3333	Computer	28000	3	HCL
4444	Washing machine	25000	13	IFB
5555	Airconditioner	30000	22	VOLTAS

a) `Select Icode, LEFT (Iname, 3) from Item where price>21000;`   **1**
b) `Select Icode,Brand from ITEM where Iname LIKE "%p%";`   **1**
c) `Select Icode, price from ITEM where Qty <5 AND Brand = "HCL";`   **1**
d) `Select Iname, Price from ITEM where LENGTH (Iname)>10;`   **1**
e) `Select Icode, MID (Iname, 5) from ITEM where QTY<7;`   **1**