

S.F.D.A.V. Public School, Muzaffarnagar
QUESTION BANK- I
SUB- CLASS-XII
INFORMATICS PRACTICES

1. Define the following-
(i) Repeaters (ii) Gateway (iii) Bridge (iv) Hub (v) Switch
2. What is the difference between LAN and Internet?
3. Expand the terms-
OSI, FLOSS, FSF, GNU, GPL, W3C, OSS
4. What are different types of standards?
5. What do you mean by topology? What are the most popular topology?
6. What is the difference between WAN and MAN?
7. What are the components required for networking?
8. How is free software different from freeware?
9. What is the significance of Unicode?
10. What is object oriented programming?
11. What is the relationship between properties, methods and events?
12. What is the effect of absence of break in a switch statement?
13. What is the significance of a null statement?
14. What are iteration statements? Name the iterative statements provided by java.
15. What is meant by entry controlled loop and exit controlled loop? Explain with example.
16. How would you set a label to have both an image as well as text?
17. What is the difference between a text field and password field when both can obtain text from user?
18. Name the swing API classes that create
(i) A list (ii) A combo box
22. What is inheritance? Name its various forms.
23. What are literals in java? How many types of literals are allowed in java?
24. Rewrite the following fragment using switch:
if (ch == 'E')
eastern++;
if (ch == 'W')
western++;
if (ch == 'N')
northern;
if (ch == 'S')
southern;
else
unknown++;

27. How many times are the following loops executed?

(a) `x=5;y=50; (b) int m=10,n=7; while(x<=y)`
`while(m%n>=0) { {`

```
        x=y/x;                m=m+1;
    }                          n=n+2;
                                }
```

28. Rewrite the following while loop into a for loop

```
int stripes=0;
while (stripes<=13)
```

29. In the code fragment given below, what happens when choice equals

5? `num=0, num2=0;`

`If (choice= = 1)`

```
{
Num=11;
Num2=110;
}
```

`else if (choice= = 2)`

```
{
num=20;
num2=220;
}
```

```
jOptionPane.showMessageDialog (null,"num =" + num +", num2 =" + num2);
```

30. What is meant by implicit and explicit type conversion?

32. Predict the output of following code

fragment: `int n=0,j=7,i=3;`

```
if(i>2)
{ n=1;
    if(j>4)
        n=2;
    else
        n=3;
}
else
{
    n=4;
    if(j%2 >=2)
        n=5;
    else
        n=6; }
}
```

```
jOptionPane.showMessageDialog(null,n);
```

33. Identify the possible error(s) in the following code fragment and correct the code.
- ```
f=1;
for(int a=40;(a);a--
) f*=a;
s=0;
for(int
a=1;a<40/a++) s+=a;
```
34. What are top level containers? What is their significance?
35. Compare and contrast a list box and combo box.
36. How are private members different from public members of a class?
37. Differentiate between component and a container.
38. A library charges a fine for every book returned late. Radhika developed a GUI application for her library as shown below:

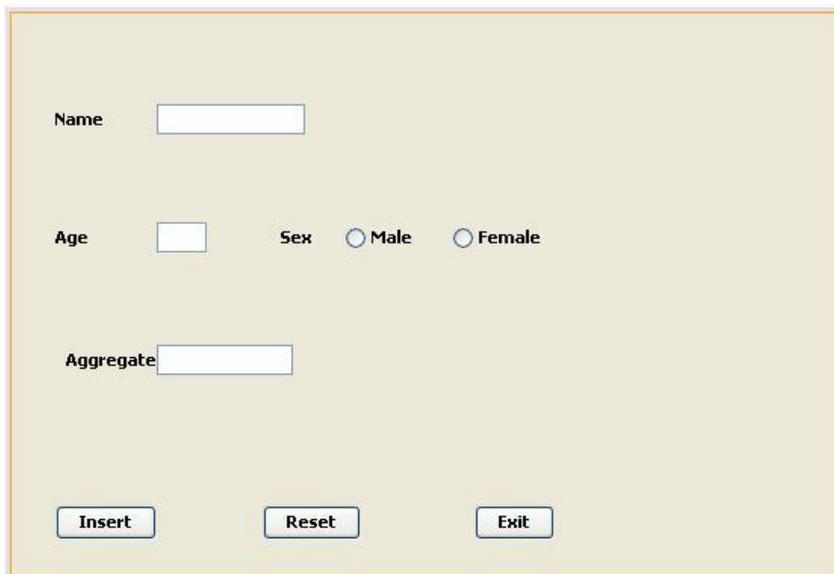
The screenshot shows a GUI application with a light beige background. It contains the following elements:

- Book Name:** A text label followed by a rectangular input field.
- Return Date:** A text label followed by a rectangular input field.
- Current Date:** A text label followed by a rectangular input field.
- Calculate Time:** A rectangular button with rounded corners.
- Calculate Fine:** A rectangular button with rounded corners.
- Time Exceeded:** A text label followed by a rectangular output field.
- Fine:** A text label followed by a rectangular output field.

For first 5 days the fine is 1 rupee, for 6-10 days fine is 2 rupee and above says fine is 2 rupee per day.

- (i) Write the code to display current day in text field for current date.
- (ii) Write code to do the following
  - (a) When “Calculate time” button is clicked, the number of days the member is late to return the book is calculated as number of days between current date and return date and it should be displayed in text field for “time exceeded”
  - (b) When “Calculate Fine” button is clicked, fine is calculated on the basis of time exceeded as displayed in text field for Fine.

39. Consider the following application



The application works on the stud table of test database, having following structure:

|           |              |
|-----------|--------------|
| name      | varchar (50) |
| age       | int (3)      |
| sex       | char (1)     |
| aggregate | int (11)     |

The text fields on the form have names as nameTF, ageTF and aggrTF respectively. The radio buttons have names as maleRB, and femRB.

- (a) Write code for the actionPerformed( ) method of insert button so as to insert the data entered in the form into table stud. Make sure to enter value for field Sex as ‘M’ or ‘F’.
- (b) Write code for the Reset button so as to reset the entire form.
- (c) Upon clicking Exit button, it should firstly display a message dialog that shows the current number of records in stud table and then should end the application.

40. Expand ODBC and JDBC?

41. Write any 5 common properties of list and combo box
42. Name the package you need to import for performing database connectivity.
43. What is a URL? What are its components? Exemplify.
44. Explain Client- Server computing.
45. Name any three popular Web Servers.
46. Name different control types supported by HTML forms.
47. What types of lists are supported by HTML? Explain.
48. Which tag is used to create tables in HTML? Write its attributes.
49. Write HTML code to produce these controls
  - (i) A text box
  - (ii) A text area with 10 rows and 30 columns.
50. What is XML? Compare HTML and XML briefly.

