

## **DATABASE**

1. Write down any two disadvantages of using a database system.
2. Define the following terms
  - a. Candidate key OR Cartesian Product
  - b. Cardinality OR Tuple
3. What is the difference between foreign key and primary key?
4. Duplication of data is known as \_\_\_\_\_
5. A statement that gives you filtered data according to your conditions and specifications.
6. What is the difference between Number and Auto Number data types?
7. What do you understand by the term primary key?
8. What is the difference between the Number and Auto Number data types in Access?
9. A number which is automatically incremented by Access whenever a new
10. record is added has field type \_\_\_\_\_
11. A statement that gives you filtered data according to your conditions and specifications.
12. What is the importance of a primary key in a table? Can you have multiple primary keys in a table? Why or why not?
13. Define Access database and explain its usage.
14. How the Alternate key is different from foreign key?
15. What is the length of text type field?
16. What is a RDBMS? Give two example of a RDBMS.
17. What is the difference between Number and date data types?
18. What is the significance of database?
19. Define the following database terminology
  - a. Degree
  - b. Cardinality
20. What is the difference between Auto Number and Number data types of MS-Access ?
21. List the various data types in Ms-Access.
22. Study the following data and answer the questions given below :

Table : **Item**

ItemName	CostPerItem	Quantity	Warranty	OutOfStock	Operational
Computer	60000	10	2	No	7
Printer	15000	15	3	No	10
Digital camera	10000	0	1	Yes	0

- (i) Suggest the data types that should be used for each of the fields in the above table.
- (ii) Suggest a field from the above table, which can be set as the primary key.

23. Study the following data and answer the questions given below :

Table : **Library**

Acc. No.	Title	Author	Subject	Publisher	Price	Quantity
Ac-01	Data Structure	Nortron	DS	McGraw	217	7
Ac-02	Dos Guide	Palmer	OS	PHI	175	3
Ac-03	Turbo C++	French	Prog	Galgotis	270	5
Ac-05	Dbase Dummies	Robert	DBMS	BPB	225	5

- Suggest the data types that should be used for each of the fields in the above table.
- Suggest a field from the above table, which can be set as the primary key.

24. Which types of fields are only support input mask?

25. Study the following data and answer the questions given below :

Table: Patient

Name	P_no	Date_Admm	Doc_no
Mohan	P_101	21/03/2006	301
Priya	P_204	03/04/2006	134
Suraj	P_375	15/01/2006	204
Komal	P_424	24/06/2006	134

Table: Doctor

Doc_no	Doc_Name	Speciality
134	A.K. Sharma	Surgery
204	R. Khurana	Dentist
301	S. Shyam	Neurology
280	P. John	Dermatology

- Name the field, which can act as the primary key for the table **Patient** and the table **Doctor** respectively.
- Name the field, which can act as the foreign key for the table **Patient**.
- What type of relationship exists between the table **Patient** and the table **Doctor**?

26. Answer the following questions based on the structure of the table Student given below :

Table : Employee

Empno	Name	Desig	Basic	DOJ	Experienced
C001	Hari	MGR	10000	06/10/03	yes
/C002	John	MGR	12000	05/12/04	NO

- Suggest the data types that should be used for each of the fields in the above table.
- Suggest a field from the above table, which can be set as the primary key

27. What is the function of input mask?

28. Name the data types for the following

- sound ,picture or other data such as MS-Word or MS-Excel file
- Link to an internet or other location in the database.

29. Name the following :

- Alphanumeric characters up to 65,535 characters..
- The number of records in a relation.

## ASP

1. Explain the difference between ASP and HTML? What are the advantages of ASP?
2. Explain with example the difference between implicit and explicit declaration of variables.
3. What do you mean by trimming? How can you implement the trimming concept in ASP program?
4. How IF ..ELSE...END IF is different from SELECT CASE....END SELECT statement ? explain with syntax .
5. Write the difference between Sub Procedure and Function.
6. Differentiate between Response Object and Request Object with the help of an example ?
7. Differentiate between flush method and end method of response object .
8. Find output
  - Response.write(ucase(mid(" WEB TECHNOLOGY",2,abs(13 mod 7^1^30 -2)))
  - Response.write(instr("mistrust or DISTRUST" , "st")
  - Response.write( Right (" CLASS XII , HOUR(#4:30:10 AM#)
9. What effect does putting <% Option explicit %> at the top of your page have?
10. What do you understand by the term server side scripting ?
11. What is the purpose of using Global .asa file ?
12. Which built in objects would you use to connect your ASP page with the database. ?
13. What is cookies ? How it is different from text file .
14. How normal html file is different from asp file.
15. What is the difference between Application and Session object.
16. Give output of the following statements:
  - i) Response.Write(MID(LTRIM(" Web Technology"), 5,4))
  - ii) Response.Write(LCASE(LEFT("Multimedia",5)))
  - iii) Response.Write(ABS(10 - 4 MOD 3 ^ 2))
17. Differentiate between an Read and ReadLine methods of the TextStream object.
18. Differentiate between Connection String and DSN connection to a database.
19. What do understand by the cursor type of a recordset? What are the different values that a user can specify for the cursor type?
20. What effect does putting <% Option explicit %> at the top of your page have?
21. Write the requirements to run the ASP page.
22. What is the purpose of using Global .asa file?
23. Which built in object would you use to write a client's cookies?
24. What happens when the client browser request the ASP page.
25. How can you create a text file in ASP.
26. What is the difference between buffered and unbuffered response.
27. What are the five inbuilt ASP objects ? Explain any two.
28. Write a ASP code to display HELLO WORLD ten times.
29. Write the various ways of sending information from client to server using request object. Explain any two request collection objects.
30. Write the ASP code to display the number of times you have visited the page.
31. Underline the errors in the following code and write the corrected script.
 

```

                <%
                dim fname
            
```

```

fname=Request.Query("fname")
If fname<>"" Then
Response.Output("Hello " fname "!<br />")
Response.Output("How are you today?")
End
%>

```

32. The process of executing on the basis of the actions that occur in an application is called \_\_\_\_\_.

33. How can you call a procedure in HTML file. Write different ways of calling a procedure.

34. Differentiate between a sub routine and a function with the help of an example.

35. Give output of the following statements:

- i) Response.Write(LCASE(MID("Hello There"),5,4))
- ii) Response.Write(MONTHNAME(MONTH("15-8-2004")))
- iii) Response.Write((5\*5)MOD(3^3))

36. Find output

- Response.write(ucase(mid(" congratulations!",2,abs(13 mod 5))))
- Response.write(instr("mistrust or DISTRUST" , "ST"))
- Response.write( Right (" CLASS XII , hour(#4:30:10 AM#)

37. Explain the difference between server side script and client side script.

38. Explain the usage of the "OPTION EXPLICIT" keyword with an example.

39. What is builtin function ? Name any three function which are used in ASP program.

40. How FOR ..NEXT is different from DO WHILE ...LOOP ? explain with syntax .

41. How is call by value is different from call by reference method ?

42. Differentiate between property and method with the help of an example?

43. Differentiate between remove and remove all methods in session object. give example.

44. Find output

- Response.write(mid(" WEB TECHNOLOGY",3,abs(10 mod 3^1^30 -8)))
- Response.write(instr("mistrust or DISTRUST" , "IS"))
- Response.write( LEFT (" CLASS XII , HOUR(#4:30:10 AM#)

45. Write an ASP program to read a text file named "*mytext.txt*" and display the contents of the file on the screen after converting all alphabets to upper case letters and replacing all spaces with "#".

For example if the file contains the text :

**Work is Worship.**

The program should display :

**WORK#IS#WORSHIP.**

46. Underline the errors in the following code and write the corrected script.

```

<%
dim count=0 , j=0
for count = 8 to 1 step 2
    Response.Output("Hello world " "<br />")
loop
%>

```

47. Convert the following coding in to **for .....next** loop

```

<html>
<body>
<%
dim a,b,c,d,e,sum

```

```

a=1,b=20,c=3,d=4,e=5
do while b>=10
    sum=a+b+c+d+e
    a=a+3
    b=b-7
    c=c+3
    d=d*4
    e=e/2
loop %>
</body>
</html>

```

48. Find the errors in the following ASP code

```

<html>
<body>
<%
s=" Dynamic Array"
do while (i<7)
if mod(len(s),2)
response.write (n)
next %>

</body>
</html>

```

49. Find the output of the following ASP coding

```

<html>
<body>
<%
i=7
atx=array(10,20,30,40,50,60)
min=0
do while(i>=min)
atx(i)= atx(i)\3
i=i-2
response.write(atx(i))
loop %>
</body>
</html>

```

50. How is an ASP file different from a normal HTML file?

51. How can you display the current date and time in ASP code.

52. What is the purpose of using cookies?

53. Which built in object would you use to read a client's cookies?

54. What is the difference between Application and Session variables?

55. What happens when the client browser request the ASP page.

56. What is the difference between response.Flush( ) and response.Clear( ) method.

57. A software company wants to create a home page for its website. The company wishes to design an ASP coded web page with the following specifications:

- To display a welcome message to the user using his name entered into the text box using Form Collection.
- To display the current date.
- To display the name of the browser that the user is using.

**Nibble Software**Enter Your Name : 

Welcome Manolina

Today's Date is : 10/23/2006

Browser Used : Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

58. Explain AtEndofStream property of TextStream object with an example.
59. Explain the working of ASP.dll.
60. Name the built in function which can be used for the following
- To convert the expression into an integer number. If it is a Boolean value of True, it becomes 1, False becomes 0.
  - Remove spaces from both left and right of string.
61. What are Server variables in Request Object?
62. Give output of the following statements:
- Response.Write(Right(ucase("SWINE flu PaNdEmiC"),len("cases")))
  - <%= (MID(monthname(month(date()))),hour("#6:25#"),len("exam"))%>
  - Response.Write((2\*7^2>50 mod 3) XOR (7>5 EQV 5\*3<5))
63. Give the output of the following set of statements:
- ```
<% Function run(b)
    dim c,temp
    c=1000
    temp=b+c
    b=b+temp
    if(c<> 200) then
        response.write(temp & " " & b & " " & c)
    end if
end function %>
<% dim m
m=10
response.write run(m)
response.write(" " & m & "<BR>" %>
```
64. Write the ASP script to display the client browser type and IP address of the client machine.
65. Name the built in function which can be used for the following
- To convert the expression into Date and Time value.
  - Returns the largest valid index for array.
66. How strfirstname=Request.Form("FirstName") is different from trfirstname=Request.QueryString("FirstName")
67. Give output of the following statements:
- Response.Write(LEFTt(Lcase("SWINE flu PaNdEmiC"),len("case")))
  - <%= (MID(monthname(month(date()))),Minute("#6:25#") mod 4 ,len("exam"))%>
  - Response.Write((2\*7^2>50 mod 3) EQV (7>5 XOR 5\*3<5))
68. Use the following script to answer the questions that follow:
- ```
<%
DIM D
Sub RESULT
    I=2
    DO WHILE I<10
        C = 20
```

```

        ASD
        I=I+3
    LOOP
END SUB
SUB ASD
    D=D+5
END SUB
%>

```

(i) What is the scope of variable C and D in the above script?

(ii) How many times will the subroutine *ASD* be executed in the above script?

69. write a program in ASP to count the number of space in a paragraph stored in "d:/wwwroot/localhost/astronaut.txt"

## FLASH

1. Define Timeline.
2. Define the term symbol? How it is different from instance.
3. Differentiate between stage levels and overlay objects.
4. Explain the usage onion skin feature.
5. What is the full form of MPEG?
6. Differentiate between JPEG and GIF file formats.
7. Give extension of any two sound file formats.
8. What is the difference between hiding and locking a layer?
9. Differentiate between a guide layer and a mask layer.
10. What is the full form of PNG?
11. Describe any two file formats, which can be used, for storing movie files.
12. Differentiate between the .FLA and .SWF file formats of a Flash movie.
13. What is the use of alpha value?
14. What is a gradient? What types of gradients does flash support?
15. Define frame rate.
16. State the difference between sage and Overlay objects.
17. Write the difference between guide layer and a mask layer?
18. Define the term symbol? Brief on different type of symbols.
19. What is the full form of MIDI?
20. What is symbol? Explain the usage of timeline.
21. Differentiate between TIFF and MPEG file formats.

Ans: **Tagged Image File Format (abbreviated TIFF)** is a file format for storing images, including photographs and line art. It is now under the control of Adobe Systems

**Moving Picture Experts Group** (acronym:MPEG) was formed by the ISO to set standards for audio and video compression and transmission

22. What is the meaning of Skewing object?
23. Write steps to include flash file into a HTML file?
24. Define the term layer. What are the different properties of layer that can be set using layer property dialog box?
25. Explain the concepts of Frame, Frame Buffer and Frame Rate.
26. How character kerning is different from character tracking?
27. What do you mean by publishing a flash movie? Name different formats in which flash movie can be published.
28. What is gap size?
29. Explain the usage of the following tools available in Flash 5.
  - i. Modifiers
  - ii. Launcher Bar

## **COMPUTER NETWORK**

- Differentiate the following transmission
  1. Digital and Analog
- Write a short note on
  1. ARPANET
  2. Intranet
  3. Interspace
  4. Intranet
- Write the full form of 1) FSF 2) FLOSS
- What is topology? What are the factors to be considered while choosing topology?
- Define the following network devices :  
Gateway, router
- Write short notes on the following communication protocols:  
PPP,POP,IMAP
- Explain the following network security concepts.  
firewall ,Crackers