



SAMPLE PAPER-2014(1)

DATABASE

1. What is the difference between text and memo data types of MS-Access ?
2. What is a Tuple & Attribute?
3. Define alternate key & Candidate Key
4. Name the following:
 - i) The extension of an Access database file.
 - ii) The view in which we can add, edit and view records in MS-Access.
5. **Study the following-data and answer the questions given below :**

Table : ACCOUNT

Acc_No	Cust_Name	Transaction	Balance
A101	Ram Prasad	Withdrawal	10,000
A102	Kamla	Deposit	1,50,000
A103	Ramakant	Deposit	12,000
A104	Sunita	Withdrawal	36,000

- I) Suggest the datatypes that should be used for each of the fields in the above table.
- II) Suggest the Primary Key
- III) What is the degree & Cardinality of above table

6. **Study the following-data and answer the questions given below :**

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** table **Doctor**
- 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** ?

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

Table: Book

Book Title	Acc_no	Author	Price
ASP	1002	Russell	325.00
VBScript	1014	Simon	295.00
HTML	1001	Ray	350.00
Jscript	1020	Jaworski	375.00

Table: Issue

Member_no	Issue_Date	Return_Date	Acc_No
1432	07/12/2003	07/22/2003	1001
2042	09/30/2003	10/10/2003	1020
1245	10/08/2003	10/18/2003	1002
1432	10/03/2003	10/13/2003	1014
1324	09/30/2003	10/03/2003	1001

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

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

Table: Sales

Sale Date	Item Name	Bill No	Item Price	Quantity Sold
11/12/2003	Pen	101	20.50	5
09/10/2003	Pencil	212	5.00	12
09/10/2003	Eraser	203	8.25	10
08/12/2003	Pencil	113	5.00	3
07/11/2003	Stapler	126	30.00	15
07/11/2003	Pen	254	20.50	8

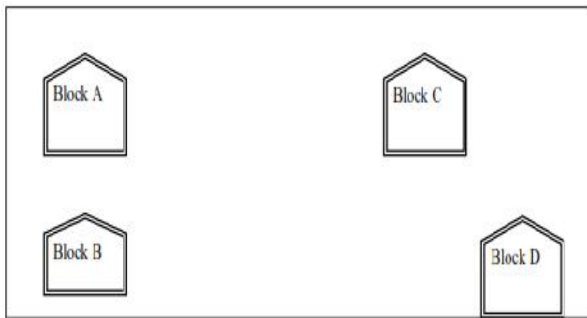
- If the Item details have to be stored in a separate table (named ITEMS), then identify the two fields from the above table which should be included in the table ITEMS.
- Suggest the data types that should be used for the Bill_No and Sale_Date fields in the table
- State the item of data in the Item_Name column for Item_Price 8.25.
- For each record state how many attributes are shown in the above table.

OPEN SOURCE

1. What is Open Source Software Give Few Examples
2. Explain the Following : FLOSS OSS FSF
3. Differentiate between Freeware & Shareware
4. Write short note on a)MYSQL b) Tomcat c) Linux d)Open Office e) Python
5. Name three Website which promotes open source software

NETWORKING

- 1) What is Network Give three Advantages of Network
- 2) Give 3 difference Between LAN/MAN/WAN
- 3) Give Two Difference Between LAN & WLAN
- 4) Define the following Term a)Hub b)Switch c)Router d) Gateway e)bridge f)Repeater g)MODEM
- 5) Give the Full Form of Following a) FTP b) IMAP c)PPP d)HHTP e)SMTP
- 6) What is topology? Difference Between Star / BUS /Ring topology
- 7) Explain the following :
a) Firewall b) Cracker c) Hacker d) GSM e) CDMA f) GRPS g) Intranet
h) Interspace i) SMS j) MMS k) Computer Virus: l) Malware m) Spyware p) Cyber Law:
- 8) Difference between Twisted pair /Co-axial / Fiber-Optics cable
- 9) Name three wireless channel of communication
- 10) **nKnowledge Supplement Organisation has set up its new center at Mangalore for its office and web based activities. It has 4 blocks of buildings as shown below:**



Center to center distances between various blocks

Block A to Block B	50 m
Block B to Block C	150 m
Block C to Block D	25 m
Block A to Block D	170 m
Block B to Block D	125 m
Block A to Block C	90 m

Number of Computers

Block A	25
Block B	50
Block C	125
Block D	10

- (i) Suggest a cable layout of connections between the blocks.
- (ii) Suggest the most suitable place (i.e. block) to house the server of this organisation with a suitable reason.
- (iii) Suggest the placement of the following devices with justification
a) Repeater b) Hub/Switch
- (iv) The organization is planning to link its front office situated in the city in a hilly region where cable connection is not feasible, suggest an economic way to connect it with reasonably high speed?

VBScript

1. Differentiate between Local and Global scope of a variable in VbScript.
2. Define the term event. Name the events to be used in the following situation
 - (i) To display a message every time the viewer closes a web page.
 - (ii) To deactivate a particular textbox in a form
3. Name the built-in functions to be used in the following situations:
 - (i) To return a number rounded to specified decimal places.
 - (ii) To check if string1 occurs within string2 and return the starting position of string2 in string1.
4. Observe the code segment given below and answer the questions that follow:

```
<SCRIPT LANGUAGE= "VBScript">  
dim a,b,c  
a = 10 ^ 3 mod 4\2  
b = 40 mod 3  
if not(b >= a) then  
    c = 5  
else  
    c = 10  
end if  
</SCRIPT>
```

- a) Name any one relational operator and one logical operator used in the above code segment
- b) Rewrite the statement : IF NOT(B >= A) THEN without using the NOT operator

5. Change the following script using DO.. WHILE loop without effecting the Output :

```
dim total,count  
total = 0  
count=10  
do  
document.write (count & "<br>")  
count = count - 2  
total = total + count  
loop until count<1  
document . write (total)
```

6. Write the output of the following code :

```
dim result  
For i = 1 to 5  
result = result + second(4)  
Next  
document.Write (result)  
  
Function second(num)  
second = num*5 num  
= num + 1  
End Function
```

7. Write the output of the following code :

```
<Script Language = "VBScript">  
Name = "Web Tech"  
startword = true  
For i = 1 to Len (Name)  
  if (startword) Then  
    Document.Write (Mid (Name, i, 1))  
    if (Mid (Name, i, 1) = " ") Then  
      startword = false  
    else  
      startWord = true  
    End if  
  End If  
Next  
</Script>
```

8. Write the equivalent script for the following code using FOR loop without effect the output:

```
<SCRIPT LANGUAGE="VBScript">  
DIM count,ans  
ans=1  
count=2  
DO  
ans=ans*count  
count=count+2  
LOOP WHILE count<=10  
document.write(ans)  
</SCRIPT>
```

9. Create a form that contains two checkbox options and a textbox as shown below. When the user clicks on any checkbox the selected options must be displayed in the textbox. Write the code for creating the form and VBScript code for the click events of the checkboxes.

The Check Box Control - Click on a check box.

Please select the categories that interest you.

Movies

Books

You have selected: books

10. Write HTML document to create the following form :

Calculate your division

Enter your percentage

Grade

Use VB Script to find out the division secured by a student on the basis of the % of marks obtained in the examination. The student is failed if the marks are below 33%, he secures a III division if the marks are 33% onwards but below 50%, a II division if he secures 50% onwards but below 60%, a I division if he secures 60% onwards but below 75% and a Distinction if the score is 75% and onwards

ASP

1. Differentiate between Client Side scripting and Server-side scripting.
2. Explain with example the usage of the QueryString collection of the Request object.
3. Differentiate between the Ad Rotator and Content Rotator components of ASP.
4. Explain the following two methods of content rotator:
 - i. Choosecontent
 - ii. Getallcontent
5. Explain the importance of page counter component of ASP
6. Explain the concept of object , property and method with an example .
7. What do you understand by ASP object? Name different ASP objects.
8. Write the difference between Response and Request object.
9. What is the purpose of using the Global.asa file? Give Syntax of Global.asa
10. Differentiate between
 - a) Read and ReadLine methods of Textstream Object
 - b) Flush & End Method of ResponseObject
 - c) Move & Movelast Recordset Object
 - d) Skip & Skipline of Textstream Object
 - e) AtEndofStream & AtEndofLine of Textstream Object
 - f) Lock & Unlock of Application Object
 - g) EOF & BOF of Textstream Object
 - h) Addnew & Update of recordset Object
11. What is Collection Briefly explain three collection associated with Request Object
12. What is Application Variable? Write the syntax to create Application variable
13. Define ADO
14. Differentiate between **adLockPessimistic & adLockOptimistic lock of recordset**
15. Differentiate between **AdOpenKeyset & AdOPenDynamic Cursor of recordset**
16. Find output 3
 1. Response.write(ucase(mid("we become leaders and innovators by performing leading and innovating actions.",2,13))
 2. Response.write(instr("My India My Pride..." , "ia"))
 3. Response.write(Right ("Different Shades of Patriotism" , 4)

17. Question given below are based on ASP :

a) Observe the program segment given below carefully and fill the blanks.

```
<%  
DIM objConn, strConn, objRS  
_____ objConn = Server. CreateObject("_____")  
strConn = "DSN=exam"  
objConn. Open _____  
SET objRS = Server.CreateObject("_____.RecordSet")  
objRS.Open "Student", objConn, 2, 2  
objRS._____ 'Move the cursor to the end of file  
_____ 'Line 1 to Add a new blank record  
objRS("AdmNo") = Request._____("AdmNo")  
objRS("Name") = Request.Form("Name")  
_____ 'Line 2 to save the record in the database  
objRS.Close  
objConn.Close  
SET objRS = _____  
SET objConn = _____  
%>
```

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

18. Write a program in ASP to count of the word "is" as an independent word in a text file
endavour.txt.

for example

This is his book . is this book good ?

Then the output of the program should be 2.

19. 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.

20. Create a program to read a text file named data.txt and count the number of vowels and
consonants.

21. Create a program to read a text file named data.txt and Display a line beginning with
Vowels in a file

22. Create a program to read a text file named data.txt and count the word starting with "A" or
"T".

23. Study the codes given below and answer the questions that follow:

Exam.txt

This year I wish to qualify the following Exams:

1. Class XII CBSE exam
2. CS
3. ICWA
4. CA

Hope I can fulfill my wishes.

Exam.asp

```
<%count=0
Set fs=request.createobject("MSWC.FileSystemObject")
Set f=fs.OpenTextfile("exam.txt")
Do While Not f.AtEndOfStream
f.ReadLine
count=count+1
Next
Response.write("Total number of lines="&count)
f.Close
%>
```

- i. Identify the errors in exam.asp and rewrite the corrected code.
- ii. What is the use of the AtEndOfStream method?
- iii. Give the output of the exam.asp file.
- iv. What will be the output if the f.readline is replaced by f.readall?