Roll No: _____

Sophia Girls' College, Ajmer

(Autonomous)

Semester V – 2017- 18

End Semester Examination

Class : B.A / B.Com / Eng. Hons/ Eco Hons / B.Sc[M/B]

Sub : V.C.A

Paper I : [VCA- 502] : Database Technologies

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Define the following.

1. Data base
2. Data base Administrator
3. Data Models
4. One to One Relation
5. Entity
6. Index
7. Referential Integrity
8. Prime Attribute
9. Tuple
10. First Normal Form

Section B [10Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions

UNIT I (3 Marks)

11. What is data abstraction and what are its levels?

OR

What is Client Server Architecture?

UNIT II (3 Marks)

12. Explain attribution, its types and their representation.

OR

Explain aggregation.

UNIT III (4 Marks)

SOPHIA COLLEGE, AJMER

13. Define key and explain different types of keys.

OR

Explain select and project operators of relational algebra.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. Explain architecture of DBMS

OR

Describe network and relational model.

UNIT II

15. Explain generalization and specialization with suitable examples.

OR

Explain sequential and random access file organization.

UNIT III

16. Explain normalization. Why is it needed? Explain BCNF.

OR

Explain Union, Set Difference and Cartesian Product Operation.

The End

SOPHIA COLLEGE, AJMER

Sophia Girls' College, Ajmer

(Autonomous)

Semester V – 2017- 18

End Semester Examination

Class: B.A/ B.Com. / B.Sc. / Hons.

Sub: VCA

Paper I: [501]: Internet Tools and Website Development

Time: 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following.

1. What is the use of <img> tag?
2. What is the World Wide Web?
3. Which tag inserts a line horizontally on a web page?
4. What is CSS?
5. What are the comparison operators?
6. What are frames?
7. How do you declare a variable in JavaScript?
8. What do you mean by Function in JavaScript?
9. Give syntax of **for.. in** loop.
10. How can you include comments in HTML?

Section B [10Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following

UNIT I (3 Marks)

11. Explain the basic structure of the HTML program.

OR

Explain the following tags:

a. <a>
b. <p>
c. <hl>

UNIT II (3 Marks)

12. Write a short note on JavaScript data types.

OR

SOPHIA COLLEGE, AJMER

Write a code in HTML to create the following form

i. Textbox
ii. Checkbox
iii. Select box

UNIT III (4 Marks)

13. Explain switch in JavaScript with the help of an example.

OR

Explain array declaration and allocation in Java Script.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following.

UNIT I

14. Write an HTML code that will display the following table:

		Subject Marks		
Roll no.	Name	English	Hindi	Maths

OR

What are the different list tags available in HTML? Explain each in brief.

UNIT II

15. What are the different ways to apply CSS to HTML? Give an example of each type.

OR

Explain with example various attributes of <frame> and <frameset> tags in an HTML page.

UNIT III

16. What are arrays in JavaScript? How do you declare an array? Explain with example.

OR

What are the different types of loops in JavaScript? Explain them with examples.

The End

SOPHIA COLLEGE, AJMER

Sophia Girls' College, Ajmer

(Autonomous)

Semester V – 2018- 19

End Semester Examination

Class : B.A./B.Sc. [M/B]/Honours /B.Com

Sub : V.C.A.

Paper I : [VCA-501]: Database Technologies

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following.

1. Define Database Management System.
2. What is data abstraction?
3. What is logical data independence?
4. Define E-R model?
5. What do you mean by degree of a relationship?
6. Explain one to many relationships?
7. Define relational model.
8. What do you mean by decomposition of relation schemas?
9. What do you mean by dependencies?
10. What is select operator used for?

Section B [10Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Explain advantages and disadvantages of DBMS.

OR

Explain client/server architecture.

UNIT II (3 Marks)

12. What are keys? Explain different types of keys.

SOPHIA COLLEGE, AJMER

OR

Explain entities and attributes in Entity Relation Model.

UNIT III (4 Marks)

13. Explain storage organization for relations.

OR

Explain Project and rename relational operators.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. Explain DBMS architecture.

OR

Explain and compare hierarchical, network & relational models.

UNIT II

15. Explain generalization, specialization and aggregation.

OR

Explain sequential, random and indexed file organization.

UNIT III

16. Explain the following set operators:
    a. Union.
    b. Intersection.
    c. Set – difference.
    d. Cartesian product.

OR

Explain normalization up to BCNF.

The End

SOPHIA COLLEGE, AJMER

Sophia Girls' College, Ajmer

(Autonomous)

Semester V – 2018- 19

End Semester Examination

Class : B.A/B.Com/ B.Sc. / Hons.

Sub : Vocational Computer Application

Paper II : [VCA-502]:Internet Tools And Website Development

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following:

1. Define Tag.
2. What is meant by markup language?
3. Explain <Doctype>.
4. What is form?
5. What is <input>?
6. What is <Label>?
7. Define variable in Javascript.
8. Write two benefits of Javascript.
9. What is the role of script languages?
10. What is rowspan?

Section B [10Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Explain the structure of HTML document.

OR

Write difference between ordered and unordered list.

UNIT II (3 Marks)

12. Explain internal and external style sheets.

OR

SOPHIA COLLEGE, AJMER

Explain conditional, modules and unary operator with example.

UNIT III (4 Marks)

13. Write a Java script to calculate the factorial of the given number.

OR

Explain syntax of switch statement with suitable example.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. Define table tag with all attributes and elements? Justify your answer with example.

OR

How can we insert an image in a HTML document? Explain. Also explain how we can use an image as hyperlink. Give example.

UNIT II

15. Explain <Frame> tag with all its attributes. Also write advantages of using frame.

OR

Explain arithmetic operators, relational operators and logical operators in JavaScript.

UNIT III

16. How functions are created and used in Java Script. Explain. Write a function to add two numbers.

OR

How arrays are created and used in Java Script. Explain with example.

The End

SOPHIA COLLEGE, AJMER

Sophia Girls' College, Ajmer

(Autonomous)

Semester V – 2019- 20

End Semester Examination

Class : B.A./ English Honours/Economics Honours/ B.Sc [M/B] / B.Com

Sub : V.C.A

Paper I : [VCA 501]: Database Technologies

Time : 2 ½ Hrs. M.M: 50 Marks

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

IV. Answer the following questions.

1. Explain the concept of primary key.
2. What is an entity? Explain with a suitable example.
3. What are the features of a database language?
4. What are the different levels of abstraction in the DBMS?
5. Enlist the advantage of normalizing database.
6. Define Join and enlist its types.
7. What is the main difference between UNION and UNION ALL?
8. Explain the concept of ACID properties in DBMS.
9. What is BCNF is the DBMS?
10. What do you mean by atomicity and aggregation?

Section B [10Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

V. Answer the following questions.

UNIT I (3 Marks)

11. Differentiate between file system and database management system.

OR

What is the difference between logical data dependence and physical data dependence?

UNIT II (3 Marks)

12. What is file organization system? Explain random and indexed sequential file organization.

OR

SOPHIA COLLEGE, AJMER

Design an E-R diagram to show that participation of weak entity set as owner entity set in identifying relationship with another weak entity sets and find primary key of all entity sets.

UNIT III (4 Marks)

13. Explain fundamental operations of relational algebra with suitable example.

OR

Generate some queries for selection and projection, renaming, join and division.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

VI. Answer the following questions.

UNIT I

14. What is client-server architecture? Explain 2 tier and 3 tier architecture.

OR

What is DBA? Explain the role and responsibilities of DBA.

UNIT II

15. Write short notes on the following:
    a. Generalization & amp; specialization.
    b. Aggregation.

OR

What is the role of E-R model in database design? Draw an E-R diagram for Bank Management System

UNIT III

16. Explain function dependencies with the help of suitable example.

OR

What is Normalization? Explain all the normalization forms with suitable examples.

The End

SOPHIA COLLEGE, AJMER

Sophia Girls' College, Ajmer

(Autonomous)

Semester V – 2019- 20

End Semester Examination

Class : B.A./ Honours/ B.Sc[M/B]/B.Com

Sub : VCA

Paper II : [VCA 502]: Internet Tools & Website Development

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following.

1. Define Tag.
2. What is λ hyperlink?
3. What is Image Map?
4. Define a web page?
5. Define Form.
6. Write any 5 java-script keywords.
7. What is the working of Unary Negation (-)?
8. Write down syntax of If-else.
9. What is purpose of Break and continue?
10. Define Array in Java Script.

Section B [10Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Explain by giving code how we can:
    a. Add Border to image.
    b. Use Image as a hyperlink.

OR

Explain by giving code how we can link different section of a web page.

UNIT II (3 Marks)

12. Explain the Following:
    a. Relational operatiors in Java Script.
    b. How to create vertical frames.

OR

SOPHIA COLLEGE, AJMER

Explain the following:

a. Logical operators in Java Script.
b. How to create Horizontal frames.

UNIT III (4 Marks)

13. Explain the following :
    a. How functions are created and used?
    b. Java Script.
    c. Explain String object.

OR

Explain following:

a. How array can be declared and used.
b. Java Script.
c. Explain math object.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. How can we create a table? Also explain cell spacing and cell padding. Write code to create following:

	Room Chart	
S.No.	Room No.	Roll No.
1	15	1735 to 1790
2	16	1790 to 1798 1801 to 1888
3	17	----- to 1998

OR

Explain the following:

a. Ordered List.
b. Un-ordered List.
c. Image map.

UNIT II

15. What is the purpose of using style sheet? Explain Inline, Internal and External style sheets giving examples.

OR

Explain Arithmetic, conditional, Assignment and modulus operators in Java-script giving examples.

SOPHIA COLLEGE, AJMER

UNIT III

16. Explain syntax and use of switch statement. Also write a Java-script code to calculate factorial of given number.

OR

Explain syntax and use of while loop, also write a Java-script to calculate and print table of a given number.

The End

SOPHIA COLLEGE, AJMER

Sophia Girls' College *(Autonomous)*
Ajmer

Semester V – 2021-22
End Semester Examination
Class : B.A./Eng.Hons./Eco.Hons/B.Sc./B.Com.
Sub : VCA
Paper I : [VCA-501]: Website Development

Time : 1 ½ Hrs. **M.M: 35 Marks**

Section A [16 Marks]

Section A contains 12 questions (20 words each) and a candidate is required to attempt <u>any 8 questions</u>. Each question is of 2 marks.

I. Answer the following questions.

1. What is HTML?
2. What is the general syntax for an online image?
3. What tag is used to display a picture in a HTML page?
4. A part from <b> tag, what other tag makes text bold?
5. Which tag is used to create a form?
6. What is a hyper text link?
7. Which property we use in CSS to change the background colour of an element?
8. Which HTML attribute use to define the internal style sheet?
9. What is the data type of variables in a Java Script?
10. How can you convert the string of any base to an integer in Java Script?
11. What are all the looping structure in Java Script?
12. What do you mean by NULL in Java Script?

Section B [10 Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt <u>any 2 questions from different units</u> . Each question is of 5 marks.

II. Answer the following questions.

UNIT I

13. Describe any five text formatting HTML tags.

14. Describe the structure of a HTML document and a HTML tag.

UNIT II

15. Write a JavaScript code to show the use of arithmetic operators.

16. What is CSS? What are the advantages of CSS?

UNIT III

17. Differentiate between client side script and server side script?

SOPHIA COLLEGE, AJMER

18. How an array is created in Java Script with example?

Section C [9 Marks]

Section C contains 6 questions (400 words each) and a candidate is required to attempt <u>any 1 question</u>. Each question is of 9 marks.

III. Answer the following questions.

19. Write HTML code to create table. Write following properties.
    a) Border thickness of 2.
    b) 3 Rows and 3 columns, where columns of last rows are merged into one.
    c) 1 header row having column name as Roll. No, class and name.
    d) All data of table is in table is in red colour.
20. Write the advantages and disadvantages of using HTML editors and which tags is used to create a frame in HTML?
21. What is a style sheet? Explain the types of style sheets with examples.
22. What are variables? Explain different ways of creating variable in Java Script.
23. Explain the following:
    a) Write a Java script to show disadvantages of using Do-while loop.
    b) Write a Java Script to find second largest number of an array.
24. Explain the following:
    a) What are the disadvantages of using inner HTML in the Java script?
    b) What is the strict mode in Java script and how it be enabled?

SOPHIA COLLEGE, AJMER

Sophia Girls' College *(Autonomous)*
Ajmer

Semester V – 2021-22
End Semester Examination
Class : B.A./Eng.Hons./Eco.Hons./B.Sc./B.Com.
Sub : VCA
Paper II : [VCA-502(A)]: Database Technologies

Time : 1 ½ Hrs. **M.M: 35 Marks**

Section A [16 Marks]

Section A contains 12 questions (20 words each) and a candidate is required to attempt <u>any 8 questions</u>. Each question is of 2 marks.

I. Answer the following questions.

1. Explain the concept of foreign key?
2. Difference between intension & extension?
3. What do you mean by DBMS?
4. Explain natural join.
5. Explain embedded SQL.
6. What do you mean by Aggregation?
7. Define the concept of candidate key?
8. Explain the tuple in database.
9. What is tuple in a relation.
10. Define super key & primary key.
11. Give two advantages of DBMS over file system.
12. Differentiate between DDL & DML

Section B [10 Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt <u>any 2 questions from different units</u> . Each question is of 5 marks.

II. Answer the following questions.

UNIT I

13. Differentiate between Degree and Cardinality of a relation?

14. Differentiate between logical & physical data independence?

UNIT II

15. Define functional depending? Explain fully functional dependency with example?

SOPHIA COLLEGE, AJMER

16. Define data model? Explain similarities and differences among network hierarchical and relation data model?

UNIT III

17. Explain the role & components used in E.R Model?

18. What is normalization? How it is useful in a good Database design?

Section C [9 Marks]

Section C contains 6 questions (400 words each) and a candidate is required to attempt <u>any 1 question</u>. Each question is of 9 marks.

III. Answer the following questions.

19. Draw an ER diagram for library management system and convert ER diagram into table?
20. What is DBA? Explain the role and responsibilities of DBA?
21. Write a short note on:
    a) 2 tier and 3 tier architecture.
    b) Random and Indexed sequential file organization.
22. Compare & Contrast the following:
    a) Select & Project.
    b) Union & Intersect
    c) Equi Join & Natural Join.
23. Consider the following table:
    Branch (Branch – No, Street, Pin code)
    Staff (Staff – No, F Name, Position, Sex, D.O.B, Salary, Branch –No)
    Answer the following queries:
    a) List all staff with a salary between Rs 20000 and Rs 30000 of branch office Delhi or Jaipur.
    b) Give all staff a 3% pay increases.
    c) Find the number of staff working in each branch and sum of their salaries.
    d) Find all staff whose salary is larger than salary of at least member of staff branch “Bo3”.
24. Why BCNF to be considered stricter than 3NF? Explain decomposition of non- BCNF in BCNF scheme?

--The End--

SOPHIA COLLEGE, AJMER

SOPHIA COLLEGE, AJMER

Sophia Girls' College*(Autonomous)*
Ajmer

Semester V –2022-23

End Semester Examination (January 2023)

Class : B.A./Eng. Hons./ Eco. Hons. /B.Sc.[M/B] /B.Com.

Sub : V.C.A.

Paper I : [VCA-501]: Website Development

Time :2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following questions.

1. Write basic feature of a HTML file.
2. Name any four attributes of $< FONT >$ tag.
3. How image is embedded and formatted in a HTML file?
4. What are the various attributes of anchor Tag "A"?
5. What is the use of type attributes in UL tag?
6. What is action attribute in a form tag?
7. How to use row span in table tag?
8. What is CSS?
9. How to declare a variable in Java script?
10. Name the different type of CSS?

Section B [10 Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Explain Difference between following tags:
    (a) $< sup >$ and $< sub >$
    (b) $< ol >$ and $< ul >$

OR

Explain various attribute of $< img >$ tag like href, name , accesskey.

UNIT II (3 Marks)

12. Write a Java script code to show the use of Relational Operators.

OR

What is java script Expression?

SOPHIA COLLEGE, AJMER

UNIT III **(4 Marks)**

13. Explain Switch –case statement with an example.

OR

Explain with example:

(i) If – else

(ii) Do – while loop

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. Explain all text formatting tags available in HTML with their attributes.

OR

Design this table format in HTML, using $< table >$ tag.

HOME	HEADLINE	
ABOUT	IMAGE	NEWS
CONTACT		DOWNLOAD

UNIT II

15. Explain the various elements used to create an HTML form.

OR

What are operators in Java script? Explain any two operators with example.

UNIT III

16. Describe String and Mathematical function in Java script with example.

OR

What are Arrays? How can we declare and allocate arrays in Java Script?

--The End--

SOPHIA COLLEGE, AJMER

SOPHIA COLLEGE, AJMER

Sophia Girls' College *(Autonomous)*
Ajmer

Semester V – 2022-23
End Semester Examination (January 2023)
Class : B.A./ Eng. Hons./ Eco. Hons./B.Sc. [M/B]/B.Com.
Sub : VCA
Paper II : [VCA-502]: Database Technologies-I

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following questions.

1. Difference between physical and logical data independence.
2. Define DBMS?
3. What is data abstraction?
4. What is DBA?
5. Define cardinality?
6. Write two integrity rules.
7. Explain the term functional dependency.
8. What is normalization?
9. Define Equi Join & Natural Join concept with the help of suitable example.
10. Define external schema?

Section B [10 Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Elaborate the three level architecture of database system.

OR

What do you understand by DBMS system? Discuss its advantages over file based system.

UNIT II (3 Marks)

12. Differentiate between:–
    Generalization v/s Aggregation

OR

Explain the concept of file processing system.

UNIT III (4 Marks)

13. What are the advantages of normalization? Explain the difference between 3NF and BCNF.

OR

SOPHIA COLLEGE, AJMER

Explain the following operations with example:

a. UNION
b. INTERSECTION
c. DIFFERENCE
d. CARTESIAN PRODUCT

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. The network Data model is a superset of Hierarchical Model. Explain with the help of an example.

OR

Compare relational, network and hierarchical model in details.

UNIT II

15. Explain Keys with suitable example.
    a. Primary Key
    b. Composite Key
    c. Super Key
    d. Foreign Key

OR

What is database modeling? How is ER-model different from other data-models? What are the main advantage of E-R model?

UNIT III

16. Define various types of functional dependencies. Discuss with an example.

OR

Explain Relational Algebra and also explain fundamental and set operation with suitable examples.

--The End--

SOPHIA COLLEGE, AJMER

Sophia Girls' College *(Autonomous)*
Ajmer

Semester V – 2023-24
End Semester Examination (Nov. 2023)
Class : B.A./Eng. Hons./Eco. Hons./B.Sc. [M/B]/B.Com.
Sub : VCA
Paper I :[VCA-501]: Website Development

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following questions.

1. What is HTML.
2. Define Tags.
3. What is hyperlink.
4. Define Frames.
5. What is Style Sheets.
6. Define Scripting.
7. What is expression.
8. Define Keywords
9. What are datatypes.
10. Define Table.

Section B [10 Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Discuss the features of HTML with suitable examples.

OR

Explain the various attributes of <IMG> tag like href attribute etc.

UNIT II (3 Marks)

12. What do you understand by the Java Script. Explain in detail?

OR

Write short note on
   a. Data type of java script.
   b. Cascading style sheet.
   c. Frames.

UNIT III (4 Marks)

13. Explain loop control structure in core java script.

OR

SOPHIA COLLEGE, AJMER

Discuss about the functions of Java Script.

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

III. Answer the following questions.

UNIT I

14. Explain the table with different tags in detail.

OR

How to work with Images in HTML. Explain the steps.

UNIT II

15. What is Cascading style sheets? Explain inline, internal & external Cascading style sheets.

OR

Write short note on:

a. Increment and decrement operator.
b. negation.
c. Relation Operators.

UNIT III

16. Discuss about:

a. Switch case.
b. Break — Goto

OR

Write short note on:

a. Properties & Methods of Math object in Java Script.
b. Arrays in Java Script.

--The End--

SOPHIA COLLEGE, AJMER

Sophia Girls' College *(Autonomous)*
Ajmer

Semester V – 2023-24
End Semester Examination (Nov. 2023)
Class :BA/Eng. Hons./Eco. Hons./BSc. [M/B]/B.Com.
Sub : VCA
Paper II :[VCA-502]: Database Technologies-I

Time : 2 ½ Hrs. **M.M: 50 Marks**

Section A [10 Marks]

Section A contains 10 questions (20 words each) and a candidate is required to attempt all 10 questions. Each question is of one mark.

I. Answer the following questions.

1. List any 4 applications of DBMS.
2. Explain 2NF with example.
3. Explain Indexed sequential file organization.
4. Explain E-R Model.
5. What is Entity and Entity-Set?
6. What is BCNF?
7. What is DBMS?
8. What is Schema?
9. What is functional dependency?
10. What is Cardinality?

Section B [10 Marks]

Section B contains 6 questions (50 words each) and a candidate is required to attempt 3 questions, at least 1 from each unit. The first two UNITS are of 3 marks each and the last UNIT is of 4 marks.

II. Answer the following questions.

UNIT I (3 Marks)

11. Give the architecture of Database Management System.

OR

Explain DBMS and give advantage of it over file based system.

UNIT II (3 Marks)

12. Explain Specialization.

OR

Explain Primary Key and Foreign Key.

UNIT III (4 Marks)

SOPHIA COLLEGE, AJMER

13. What is Normalization? Explain its types.

OR

What is relation Algebra?

Section C [30 Marks]

Section C – contains 6 questions. Answer any three questions (400 words each), selecting one from each unit. Each question is of 10 marks.

15.Answer the following questions.

UNIT I

14. Who is DBA? What are the responsibilities of DBA?

OR

Explain network Model, relational Model and hierarchical Model.

UNIT II

15. Explain Composite key and super key.

OR

Explain Generalization and Specialization.

UNIT III

16. Explain Function dependencies.

OR

Explain Relation operator select, Project, Rename, Join.

--The End--

SOPHIA COLLEGE, AJMER