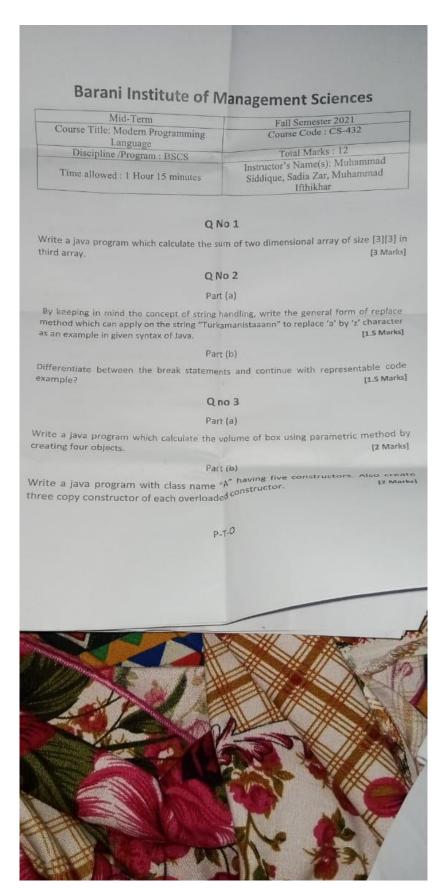
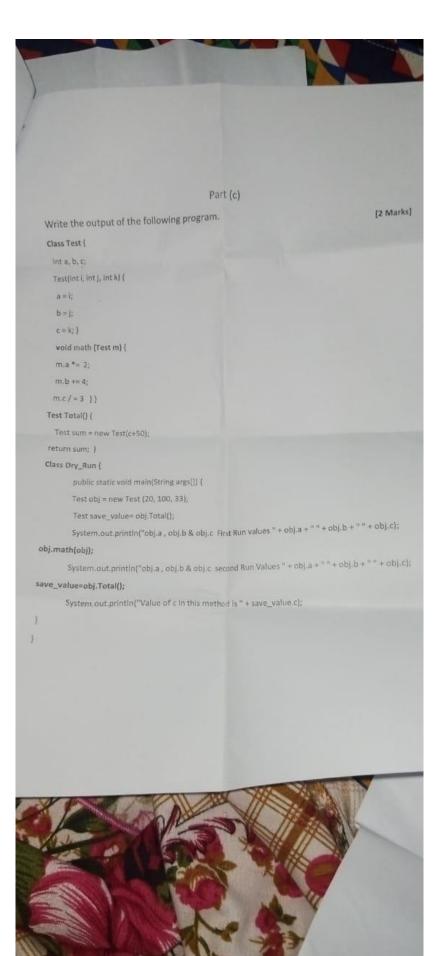
# Mid term Modern Programming Languages





### Webtechnology

## **BARANI INSTITUTE OF MANAGEMENT SCIENCES**

Mid-Term Exam

Fall Semester 2021

Course Title. Web Technologies	Course Code, CS - 566
Discipline /Program. BSCS	Total Marks, 12
Time Allowed 1 Hour 15 mins	Instructor's Name: Sumaira Aslam, Asia Shahab.

#### Answer the following questions.

Q1. Can we insert a Table inside a Form or Form inside a Table? Justify your answer. Also write HTML code to display your class time table.

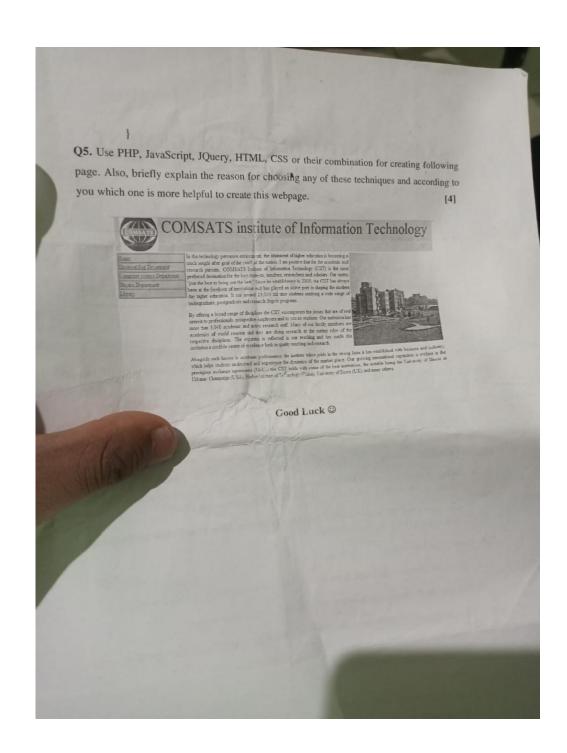
Q2. Write HTML and CSS code for the table given bellow (e.g. heading, Bold, Italic, align and Background Color).

Name	Registration No	University Name
Ali	Mcs12344	CUST
Sara	(h)/03/05	BIMS
Hina	Mcs12678	ARID

Consider you are working as a web developer; suggest which language (HTML, CSS, or Both) will be used for the development of online buying and selling website. Also

- a. Which requirements must be implemented in above scenario?
- b. Show the card prototype according to specified requirements.
- c. How many types of style sheets can be used in CSS? Explain each with the help

Q4, What is difference between GET and FOST methods? Also write HTML code to add video and audio in web page. Also apply any two attributes on it.



**Final Term** 

# BARANI INSTITUTE OF MANAGEMENT SCIENCES

Fall Semester 2021

Course Title: Cyber Security	
Discipline /Program: BSCS 7th	Course Code: CS - 597
Time allowed: 2 hour 30 mins	Total Marks: 30
2 Hour 30 mins	Instructor's Name : Sumaira Aalam, Dr. Quratulain Alam

Attempt all the questions.

Question # 1. Define CIA (Confidentiality, Integrality, and Authentication) model with an example in Cyber Security.

Question # 2. Let text be 48 bits:

01000100 01000101 01010001 01010101 01000010 01000011

Calculate S-box function in round 1 by using Data Encryption Standard (DES) Algorithm. (6)

Question # 3. Perform RSA Algorithm Encryption and Decryption if p= 23 and q= 29. (8)

Question# 4. Perform Advanced Encryption Standard (AES) Algorithm on the following data and calculate round 0 (Addroundkey), Sub byte and shift row and mix column of round 1. (12)

Key:

B1 29 3B 33 A5 41 85 92 D2 10 D2 32 C6 42 9B 69

Plain text:

E2 32 FC F1 91 12 91 88 B1 59 E4 E6 D6 79 A2 93

-	Help	ing N	latri	ces														١
	Tabl	le 6.3	S-bo	1 × 1														
	-	0	1	2	3	1	1 3	1 6	17	18	9	10	11	12	13	1	4	15
	0	14	04	13	01	02	15	11	08	03	10	06	12	05	09	0	0 1	07
	1	00	1.5	07	04	14	02	13	10	03	06	12	11	09	05	0	3 1	78
	3	04	01	14	08	13	06	02	- 11	1.5	12	09	07	03	10	0:	5 0	90
		15	12	08	02	04	09	01	07	0.5	11	0.3	14	10	00	06	5 1	3
	Table	6.4	S-box	2														
	-	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		5
i	0	15	10	08	14	06	11	03	04	09	07	02	13	12	00	05		-
i.	1	03	13	04	07	15	02	08	14	12	00	01	10	06	09	11		-
A.	3	00	14	07	11	10	04	13	01	05	08	12	06	09	03	02		-
L	3 1	13	08	10	01	03	15	04	02	11	06	07	12	00	05	14		-
Ta	ble 6.	-	-	-							FA	1	18.1		10			-
		0	1	2	3	1 4	5	6	7	8	9	10	11	12		13	14	15
0	) 1	0	1	2 09	14	06	03	15	0.5	8	9	10	-	The same	-	13	14 02	<b>P</b>
0	1	0 0	1 00 7	2 09 60	14 09	06	03 04	15	05	01	HIT MANAGEMEN	and lines	07	11		water a	-	03
1 2	1 1:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 00 07 06	2 09 00 04	14 09 09	06 03 08	03 04 15	15 06 03	05 10 00	01 02 11	13	12	07	11		04	02	03
2 3	1. 1. 0.	0   0   0   0   0   0   0   0   0   0	1 00 07 06 0	2 09 60	14 09	06	03 04	15	05	01	08	05	07 14	111	2	04	02	03
2 3	1 1 1 0 ole 6.6	0   0   0   0   0   0   0   0   0   0	1 00 07 06 0	2 09 60 04 13	14 09 09 00	06 03 08 06	03 04 15 09	06 03 08	05 10 00 07	01 02 11 04	08 01 15	05 02 14	07 14 13 03	111111111111111111111111111111111111111	5	04 11 10 05	02 15 14 02	03
0 1 2 3 ab	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0   3   0   3   1   1   1   1   1   1   1   1   1	1   00   07   06   0   00x 4	2 09 60 04 13	14 09 09 00	06 03 08 06	03 04 15 09	15 06 03 08	05 10 00 07	01 02 11 04	08 01 15	12 05 02 14	07 14 13 03	111111111111111111111111111111111111111	5 1	04 11 10 05	02 15 14 02	15 08 01 01 1
0 1 2 3 ab	0 11 11 00 07 07	0   10   13   10   11   11   11   11   1	1   00   07   06   0   00   4   1   3	2 09 60 04 13	14 09 09 00 3 03	06 03 08 06 06	03 04 15 09 5 6	06 03 08 6 09	05 10 00 07 7	01 02 11 04	08 01 15	12 05 02 14	07 14 13 03	11 1 12 2 00 3 1	5 1	04 11 10 05	02 15 14 02 14 04	03
1 2 3 Tab	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0   3   3   6   3   1   1   1   6   S-E	1   000   077   06   0   000   4   1   3   8	2 09 60 04 13	14 09 09 00 3 03 05	06 03 08 06 06 4 00 06	03 04 15 09 5 6 15	06 03 08 08 6 09 00	05 10 00 07 7 10 03	01 02 11 04	9 02 07	12 05 02 14 10 08 02	07 14 13 03 11 05 12	11 11 12 2 00 3 1 1 12 11 01	5 1	04 11 10 05	02 15 14 02 14 04 14	03 01 07 1 15 15
0 1 2 3 ab	0 11 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0   3   0   3   0   3   0   1   1   1   1   1   1   1   1   1	1 000 077 06 00 000 4 1 1 3 8 8 0 1 1	2 09 60 04 13	14 09 09 00 3 03 05 00	06 03 08 06 06 4 00 06 12	03 04 15 09 5 6 15 11	06 03 08 6 09 00 07	05 10 00 07 7 10 03 13	01 02 11 04	08 01 15	12 05 02 14	07 14 13 03 11 05 12 14	11 11 12 2 00 3 1 1 12 11 01 05	5 1	04 11 10 05 13 12 10	02 15 14 02 14 04 14 08	03 01 07 1 13 13 09 04
0 1 2 3 ab 0 1 ?	0 11 11 00 07 13 10 03	0   3   3   3   3   1   1   1   1   1   1	1   000   07   06   0   0   0   0   0   0   0   0	2 09 60 04 13	14 09 09 00 3 03 05	06 03 08 06 06 4 00 06	03 04 15 09 5 6 15	06 03 08 08 6 09 00	05 10 00 07 7 10 03	01   02   11   04   8   1   04   15	9 02 07 01	12 05 02 14 10 08 02 03	07 14 13 03 11 05 12	11 11 12 2 00 3 1 1 12 11 01	5 1	04 11 10 05 13 12 10	02 15 14 02 14 04 14	03 01 01 1 13 13
0 1 2 3 ab 0 1 ?	0 11 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0   1   3   0   3   1   1   1   1   1   1   1   1   1	1   000   07   06   0   0   0   0   0   0   0   0	2 09 60 04 13 2 14 11 11 99	3 03 05 00 06	06 03 08 06 06 06 00 06 12 10	03 04 15 09 5 6 15 11 01	6 09 00 07 13	7 10 07 7 10 03 13 08	8 1 04 8 1 04 15 09	9 02 07 01 04	12 05 02 14 10 08 02 03 05	07 14 13 03 11 05 12 14 11	111 1 12 2 00 3 1 112 111 01 05	2 5 1 1 0 0	04 11 10 05 13 12 10 02	02 15 14 02 14 04 14 08 02	03 01 07 1 13 13 09 04
1 2 3 ab	0 11 11 00 07 13 10 03	0   3   3   3   3   1   1   1   1   1   1	1   00   07   06   0   00   00   00   00	2 09 60 04 13 2 14 11 09	3 03 05 00 3 3 3	06 03 08 06 06 4 00 06 12 10	03 04 15 09 5 6 15 11 01	6 09 07 13	7 10 00 07 7 10 03 13 08	8 1 04 15 09	9 02 07 01 04	12 05 02 14 10 08 02 03 05	07 14 11 03 11 05 12 14 11	114 12 22 00 3 1 112 01 05 12	55 11 00 00	04 11 10 05 13 12 10 10 17	02 15 14 02 14 04 14 08 02	03 01 07 1 13 13 09 04
1 2 3 ab	0 11 11 00 07 13 10 03 03 05 6.7	0   1   3   0   3   1   1   1   1   1   1   1   1   1	1   1   1   1   1   1   1   1   1   1	2 09 60 04 13 2 14 11 09	3 03 05 00 06	06 03 08 06 06 06 12 10	03 04 15 09 5 6 15 11 01	15 06 03 08 6 09 00 07 13	7 10 07 7 10 03 13 08	8 1 04 15 09 8 08	9 02 07 01 04	12 05 02 14 10 08 02 03 05	07 14 13 03 11 05 12 14 11	111 1 12 2 00 3 1 112 111 01 05 12	11 00 00	04 11 10 05 13 12 10 12 17	02 15 14 02 14 04 14 08 02	03 01 07 1 15 09 04 14
0 1 2 3 Tab	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0   0   0   0   0   0   0   0   0   0	1   1   1   1   1   1   1   1   1   1	2 09 60 04 13 2 14 11 00 00	3 03 05 00 3 3 3	06 03 08 06 06 4 00 06 12 10	03 04 15 09 5 6 15 11 01 5 10	6 09 07 13	7 10 07 7 10 03 13 08 7 06	8 1 04 15 09 8 08	9 02 07 01 04 9 05 00	12 05 02 14 10 08 02 03 05	11 03 12 14 11 15 10	114 12 22 00 3 1 1 112 01 05 12 13 03	11 00 00	04   11   10   05   13   12   17   17   17   17   17   17   17	02 15 14 02 14 04 14 08 02 14 14 08	03 01 07 1 13 03 04 14 15 09
0 1 2 3 Tab	0 11 11 11 11 11 11 11 11 11 11 11 11 11	0   0   0   0   0   0   0   0   0   0	1   00   07   06   0   0   0   0   0   0   0   0	2 09 60 04 13 2 14 11 00 2 4	14 09 09 00 3 03 05 00 06	06 03 08 06 06 06 12 10	03 04 15 09 5 6 15 11 01	15 06 03 08 6 09 00 07 13	7 10 07 7 10 03 13 08	8 1 04 15 09 8 08	9 02 07 01 04	12 05 02 14 10 08 02 03 05	07 14 13 03 11 05 12 14 11	111 1 12 2 00 3 1 112 111 01 05 12	11 00 00 00 00 00 00 00 00 00 00 00 00 0	04 11 10 05 13 12 10 10 10 10 10 10 10 10 10 10 10 10 10	02 15 14 02 14 04 14 08 02	03 01 0 1 13 03 04 14

#### Table 6.8 S-box 6

	0	1	2	3	4	5	6	7	0	1 0		-				
_	12	0.1	10	10	00	0.2		-	0	9	10	11	12	13	14	11
U	12			4.5	0.7	02	UU	08	00	13	03	04	14	07	05	
1	10	15	04	02	07	12	09	05	00	01	13	14	00	11		
2	09	14	15	0.5	02	08	12	03	07	00	04	10	_	13		
3	04	03	02	12	09				11						08	

#### Table 6.9 S-box 7

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1 1:
0	4	11	2	14	15	00	08	13	03	12	09	07	05	10	06	01
1	13	00	11	07	04	09	01	10	14	03	05	12	02	15	08	06
2	01	04	11	13	12	03	07	14	10	15	06	08	00	05	09	02
3	06	11	13	08	01	04	10	07	09	05	00	15	14	02	03	12

#### Table 6.10 S-box 8

	-					-	-	1	0	10	10	11	12	13	14	1
	0	1	2	3	4	5	6	1	8	9	-	-	-	_		_
3	13	02	08		06	15	11	1000	10		03	14	05	.00	12	0
-	13	02	00	0.5		10000	10000	0.000	-10	05	06	11	10	14	09	02
1	01	15	13	08	10	03	07	04	12	05	00				05	08
			24	01	on	12	14	02	00	06	10	10	15	03	93	
2	07	11	04	01	09	12	14	-	1000			09	03	05	06	14
7	02	01	14	07	04	10	8	13	15	12	09	09	-	100	1	

AES S-Box Lookup Table

0 1 2 3 4 5 6 7 8 9 A B C D F

0 63 7C 77 78 F2 6B 6F C5 30 01 67 2B FE D7 AB 76

1 CA 82 C9 7D FA 59 47 F0 AD D4 A2 AF 9C AD 31 15

2 B7 FD 93 26 36 3F F7 CC 34 A5 E5 F1 71 D8 31 15

3 04 C7 23 C3 18 96 05 9A 07 12 80 E2 EB 27 B2 75

3 04 C7 23 C3 18 6E 5A A0 52 3B D6 B3 29 E3 2F 84

4 09 83 2C 1A 1B 6E 5A A0 52 3B D6 B3 29 E3 2F 84

4 09 83 2C 1A 1B 6E 5A 5B 6A CB BE 39 4A 4C 58 CF

5 53 D1 00 ED 20 FC B1 5B 6A CB BE 39 4A 4C 58 CF

5 53 D1 00 ED 20 FC B1 5B 6A CB BE 39 4A 1C 58

6 D0 EF AA FB 43 4D 33 85 45 F9 02 7F 50 3C 9F AB

6 D0 EF AA FB 43 4D 33 85 BC B6 DA 21 10 FF F3 D2

7 51 A3 40 8F 92 9D 3B F5 BC B6 DA 21 10 FF F3 D2

7 51 A3 40 8F 92 9D 88 46 EE B8 14 DE 5E 0B DB

9 60 81 4F DC 22 2A 90 88 46 EE B8 14 DE 5E 0B DB

9 60 81 4F DC 22 2A 90 88 46 EE B8 14 DE 5E 0B DB

9 60 81 4F DC 22 2A 90 88 46 EE B8 14 DE 5E 0B DB

9 60 87 A8 25 2E 1C A6 B4 C6 E8 DD 74 1F 4B BD 8B 8A

C BA 78 25 2E 1C A6 B4 C6 E8 DD 74 1F 4B BD 8B 8A

C BA 78 25 2E 1C A6 B4 C6 E8 DD 74 1F 4B BD 8B 8A

C BA 78 25 2E 1C A6 B4 C6 E8 DD 74 1F 4B BD 8B 8A

C BA 78 25 2E 1C A6 B4 C6 E8 DD 74 1F 4B BD 8B 8A D 70 3E B5 66 48 03 F6 0E 61 35 57 B9 86 C1 1D 9E E1 F8 98 11 69 D9 8E 94 9B 1E 87 E9 CE 55 28 DF 8C Al 89 0D BF E6 42 68 41 99 2D 0F B0 54 BB 16

## Webtechnology

## LINSTITUTE OF MANAGEMENT SCIENCES Final-Term Exam Fall 2021 (Theory) Course Title: Web Technologies

Course Code: CS-566

Discipline /Program : BSCS 7A/B

Total Marks: 20

Time allowed: 2 Hours 30 minutes

Instructor: Ms. Asia Shahab

nswer the following questions.

Q1. Suppose we have the following table named "tblStudents (StudentID, StudentName, RegNo,CGPA)" in the database named db\_Uog\_Student. Your task is to code in PHP to

- a. Add new Student record to database, Student Narne, Registration No and CGPA.
- b. Display all Students records from tblStudents c. Delete any two Students records from tblStudents.

Q2. Answer the following.

- a. What is the structure of HTML document? Do all HTML tags have an end tag? How to create a hyperlink in HTML? Explain visited and active links.
- b. Can you use CSS in JavaScript? Justify your answer. How Id and class attribute can be used in HTML by using JavaScript?

Q3. Answer the following.

- a. How JavaScript is different from HTML? And how JavaScript is added in HTML?
- b. Do you think JavaScript is better than HTML? Justify your answer.

Q4. Highlight the errors and correct the syntax of following example (JavaScript). Explain its working in your own words (max 2 to 3 lines).

<scrt language="javascript">

func con)

var name=prmt("Your name");

if (cnfrm("write on the webpage ?"))

alert("Welcome Ms/ Mr. " + name);

document.new ("Welcome");

SCIENCES  Final-Term Exam Fall 2021 (Practical Course Title: Web Technologies   Course Code: CS-566	
Course Title: Web Technologies   Course Code: CS-566	
Course Title: Web Technologies   Course Code: CS-566	d)
Discipline /Program: BSCS 7th Total Marks: 20	
Time allowed: 30 Minutes Instructor's: Ms. Asia	Shahab
Answer the following questions.	
Q1. Create a table named as "registration" in MySQL database isted below:	e which contains columns
Registration No.	[10]
Full Name	
Contact No	
University Name     Insert three new records in the table.	
a. Insert three new records in the table.     b. Delete two records.	
22. Use PHP, JavaScript, JQuery, HTML, CSS or their combination	on for creating following data
ntry form. Also, briefly explain the reason for choosing any of thes	te techniques and according to
ou which one is more helpful to create this form.	
Request Form	
Full Name	
First name: Last name:	
Email:	
University Name: BIMS V Department: CS V	
Languages Known:	
□ HTML	
□ JAVASCRIPT □ PHP	

PDC

# BARANI INSTITUTE OF MANAGEMEN SCIENCES

## Final-Term (Theory)

#### Fall Semester 2021

Pair Semester 2021
Course Code: CS-687
Total Marks: 20
Instructor's Name: Sadia Zar

#### Question No.1

- a. List down the various parameters used for evaluating the static interconnection Network.
- b. Compare the Multistage and Crossbar Network Configuration

#### Question No.2:

- a. Define the Flynn's Taxonomy. Describe the four classes proposed by Flynn's taxonomy.
- b. What are the advantages of the Parallel Computing?

[4]

[4+2]

Draw a Model showing the shared memory model for parallel computing.

**Question No.4:** 

- a. Define the PRAM Semantics. What are the four common protocols used in
- b. Take values of length and breadth of a rectangle from user and check if it is square or not.

#### BARANI INSTITUTE OF MANAGEMEN SCIENCES

Final-Term (Practical)

Fall Semester 2021

Course Title: Parallel and Distributed	Course Code: CS-687
Computing Discipline /Program: BSCS 7 A/B/C/D	Total Marks: 20
Time allowed: 30 minutes	Instructor's Name: Sadia Zar

Question No. 1

[10]

Explain your semester project.

[10]

Question No. 2

Consider an Array showing the No of Subjects enrolled by BS Students {4, 9, 1, 7, 8, 11, 2, 12}. Draw the task-dependency graph and task-interaction graph for finding the student with the minimum number of courses enrolled in the list.