

Daffodil International University Department of Computing and Information System Faculty of Science & Information Technology Final Examination, Spring 2024 Course Code: CIS 115 Course Title: Structured Programming Course Teacher Initial: MFH

Time: 02:00 Hours	Marks	: 40
(Answer all the following questions) [The figures in the right margin indicate the full marks and corresponding co All portions of each question must be answered sequentially.]	ourse outc	comes.
1. a) What is computer programming? Distinguish between structur programming and object oriented programming.	red [3]	C01
by Write name of C tokens with examples.	[2]	CO1
Briefly explain the basic structure of C programs with an example.	[4]	C01
d) What is recursion?	[1]	COI
2. a) Find the output for the following segment of program.	្រឲ្រ	CO2
(i) int main() (ii) $\nabla \sqrt{\sigma} \sqrt{\eta}$ int A[] = {5,7,4,12,3,7,9,8};	and the second	
$\begin{cases} \qquad \qquad$		
int n; for $(n = 7; n! = 0; n-)$ { printf("%d".a[i]+1): $(e_n)$		
for $(n = 7; n != 0; n)$ { printf("n=%d",n); } printf("%d ",a[i]+1); }		
} A1		
getchar(); return 0;	18	
	2	10
b) Write a program that will read the value of marks and convert the	he [4]	CO2
following expression into if-else statement:	10	

- $Grade = \begin{cases} "A+" & \text{for marks} \ge 80 \\ "A" & for marks \ge 75 \\ "A-" & \text{for marks} \ge 70 \\ "Fail" & otherwise \end{cases}$
- 3. Implement any two questions using C language.
  a) Write a C program to input week number (1-7) and print day of week name using switch case.

[10] CO2

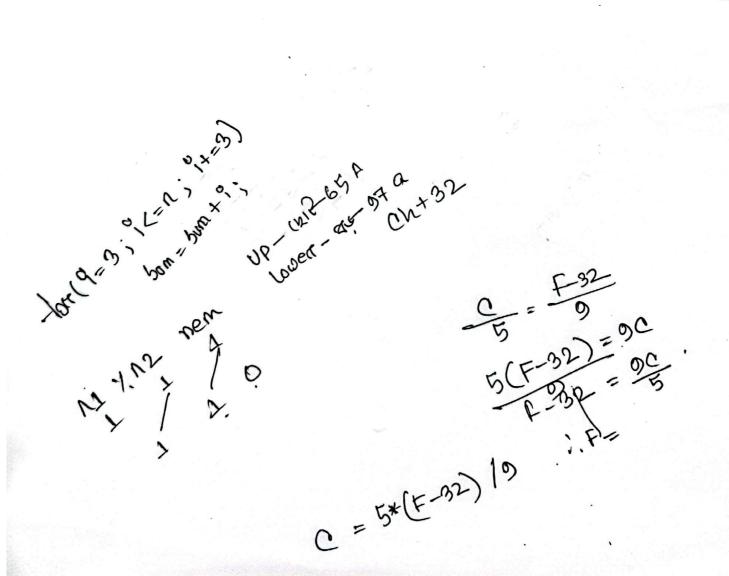
Write a C program to enter temperature in Fahrenheit and convert into Celsius.

Write a Program to find out the GCD of any two numbers using while loop.

Write the equivalent code of the following statement in While loop 4. a) **CO3** [3] format.

```
#include <stdio.h>
int main()
{
  int k;
  for (k=1; k<=80; k++)
    printf ("%d\n", k * k);
  return 0;
```

- b) Write a C program to find the summation of following series: [4] **CO3** 3+6+9+ ..... + n
- Write a program that read any uppercase character and display in lower c) [3] CO3 . case.



For more questions: https://diuqbank.com | Uploader: Shanta mehejabin

	Jaff Onthe		
	Department of Computing and Information System (CIS) Program: B.Sc. in CIS Course Tid		
	Final Examination: Spring Semester-2024 Final Examination: Spring Semester-2024 Course Code: C		
	Programmation: Spring a Stration State		
otal 7	ime: 2 hours		
	me: 2 hours		
	-pater Fund-		
	(Answer all the following questions) [The figures in the right margin indicate full marks for the respective Questions		
	Sigures in the right		
	Sa margin indicate for questions)	Total	Marks: 40
	and full marks for the rese		
(a)	Le construction de la constructi	questio	nsl
1 (4)	Questions           Justify the reasons why the performance of I series microprocessor is           better than Pentium series microprocessor?           Is it true that RAM and C		- <b>-</b> -
1	better than Dear	-	~
(6)	In rentium series microne	Marks	
	is it true that RAM and a stoprocessor?	[4]	G
	of the comput		CLO-4
	device for set of the	and the second	
	Levice of the		
	Is it true that RAM and Cache memory is responsible for performance of the computer, if yes then justify with relevant example? Which the computer is solely responsible	[6]	CLO-4
	of the computer, if yes then justify with relevant example? Which device of the computer is solely responsible for overall performance the computer?	[6]	CLO-4
	device of the computer is solely responsible for performance the computer?	[6]	CLO-4

(a)	Questions		
	Questions Explain with diagram the architecture of the Arithmetic and Logic Unit (ALU).	Marks	
(b)	The contain Logic Unit	Marks	CLO-
	contral processing unit (CPID :	151	
	digital computer system. Briefly explain with block diagram how microprocessor works.	[5]	CLO-

3.		Questions		
	(a)	What are the key functions of the Wi	Marks	
		the process management or CPU scheduling mechanisms utilized by Windows OS.	[6]	CLO-2
	(P)	Define the term deadlock and explain the conditions necessary for a deadlock to occur.		
	· ·	1 Hork to occur.	[4]	CLO-2

	4.			Witter .	1. 1. A.
T	-	(a)	Questions		
				Marks	
		(b)	Briefly explain with relevant even 1	[3]	CLO-3
		(c)	Briefly explain with relevant example of Ransomware and any other social engineering type attack. Convert the following decimal number-410 to binary and hexadecimal number-8F to binary.	[4]	CLO-3
			and to binary and	[3]	CLO-3

For more questions: https://diuqbank.com | Uploader: Shanta mehejabin



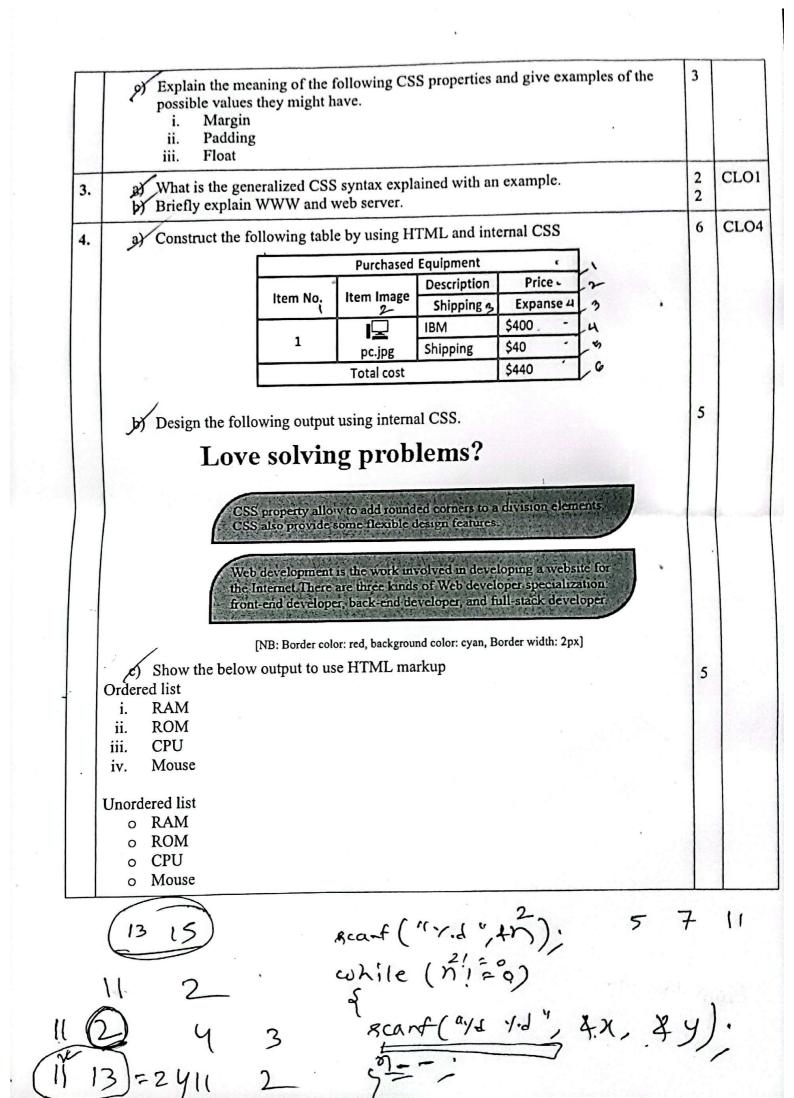
## Faculty of Science & Information Technology Department of Computing and Information System (CIS) Final Exam, Spring-2024 Batch 19: Section A

Course Code: CIS 133

**Course Title: Website Development Essential** 

-	Time: 2 Hours Tota	Marks: 4	U
,	<ul> <li>(The figure of the right margin indicates the marks)</li> <li>(You need to answer all of the following question)</li> </ul>		
1.	a) Construct the following form by using HTML and CSS.	5	CLC
	Registration form		
	User personal information Enter your full name		
	Enter your email		
	Enter your password confirm your password		
	Enter your gender O Male O Female		
	C others Euter your Address:		
	j sign-up		
	by Build the following output using HTML text formatting markup.	5	
	The formula of water is $H_2O_1$ , and the formula of alcohol is $C_2H_5OH$		
	$E = mc^2$ , where E — kinetic energy, m — mass, c — the speed of light.		
	She likes <del>violets</del> <u>snowdrops</u> .		
	WWF's goal is to: "Build a future where people live in harmony with nature.		
2.	Demonstrate the different types of ways to link CSS files into HTML with	4	CLO
	necessary code example. b) Design the following output using the CSS position property.	2	
	The position Property	3	
	is deading is moved but according to its normal position		
	This heading is moved right according to its normal position		
- 1			문제하는

Martin Labor. UVA, code-force.



For more questions: https://diuqbank.com | Uploader: Shanta mehejabin



Daffodil International University Faculty of Science and Information Technology Department of Computing & Information System (CIS) Program: B.Sc. in Computing & Information System Final Examination, Semester: Spring-2024

Course Code: MAT 101	<b>Course Title: Mathematics I</b>	Credit Hours: 3.0
Time: 2.0 Hours		Total Marks: 40
Thire. 2.0 Hours		

Name & Designation of the Examiner: Md. Shakib Hossain (MSH), Lecturer

CLO-3, PLO-1, C/L-2] Analyze the maxima and minin $f(x)$	na of the following fun	nction	6	
<b>Analyze</b> the maxima and minim $f(x)$	na of the following fur	nction	6	
1	$) = x^5 - 5x^4 + 5x^3 - 5x^4 + 5x^5 + 5x^5 - 5x^5 + 5x^5$	-10 37 		
CLO-3, PLO-4, C/L-4]		man		
valuate the following:			4 × 5	= 20
	ii. $\int \frac{\cos x}{\cos x + \sin x}$	dx		
iii. $\int_{1}^{2} lnx dx$	iv. $\int_0^{\pi/2} \frac{\sin x + c}{\sqrt{1 + \sin x}}$	$\frac{\cos x}{m^2 x} dx$		
0-4, PLO-3, C/L-5]				
x				-10
Analyze the nature of the $2x^2$ -	following equation - $3xy + y^2 - 5x + 4$	4y + 6 = 0	4+0-	-10
	ted by the given equa	ation and angle betwe	een them	
<u>0-5, PLO-4, C/L-4]</u>				
	iii. $\int_{1}^{2} lnx dx$ 0.0-4, PLO-3, C/L-5] Analyze the nature of the $2x^{2}$ – Examine the line represent	valuate the following:i. $\int \sin^4 x  dx$ ii. $\int \frac{\cos x}{\cos x + \sin x}$ iii. $\int_1^2 \ln x  dx$ iv. $\int_0^{\pi/2} \frac{\sin x + a}{\sqrt{1 + \sin x}}$ .0-4, PLO-3, C/L-5]Analyze the nature of the following equation $2x^2 - 3xy + y^2 - 5x + 4$ Examine the line represented by the given equ $3x^2 - 16xy + 5y^2$	valuate the following: i. $\int \sin^4 x  dx$ ii. $\int \frac{\cos x}{\cos x + \sin x}  dx$ iii. $\int_1^2 \ln x  dx$ iv. $\int_0^{\pi/2} \frac{\sin x + \cos x}{\sqrt{1 + \sin 2x}}  dx$ i. $O-4, PLO-3, C/L-5$ Analyze the nature of the following equation $2x^2 - 3xy + y^2 - 5x + 4y + 6 = 0$ Examine the line represented by the given equation and angle betwee $3x^2 - 16xy + 5y^2 = 0$	valuate the following: $4 \times 5$ $i. \int \sin^4 x  dx$ ii. $\int \frac{\cos x}{\cos x + \sin x}  dx$ iii. $\int_1^2 \ln x  dx$ iv. $\int_0^{\pi/2} \frac{\sin x + \cos x}{\sqrt{1 + \sin 2x}}  dx$ .0-4, PLO-3, C/L-5]

i



## Daffodil International University

## Faculty of Science & Information Technology

Department of Computing and Information System

Final Examination, Spring-2024

Course Code: ENG101, Course Title: English I

Level: 1 Term: 1

Exam Duration: 2:00 Hours

Marks: 40

## Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	a)	10 (Selecting and analyzing ideas; has already been taken separately)	[Marks 8]	CLO 2 Level
	b)	Speaking: Cue Card Topics (Relating and demonstrating ideas; has already been taken separately)	[Marks 7]	2,3
2.	a)	<ul> <li>Modify the verbs as directed.</li> <li>i. He (not miss) the train if he</li> <li>(not oversleep). [Third Conditional]</li> <li>ii. If you (put) water in the freezer, it</li> </ul>	[Marks 5]	
		<pre>(become) ice. [Zero Conditional] iii. If 1 (be) prime minister, I (invest) more money in quality education. [Second Conditional] iv. They (come) to the party if they (get) an invitation. [First Conditional]</pre>	•	
		v. If I (know) the answer, I (raise) my hand. [Third Conditional]		CLO
	b)	Identify the correct answer by following the instructions for each question:	[Marks 5]	1 Level 1,3
		<ul> <li>i. Identify the sentence which contains no errors.</li> <li>A. For example, police officers who regularly deal with all manner of life-threatening situations.</li> <li>B. If you have any problems with either our merchandise and our sales staff, we ask you to report the matter to the management.</li> <li>Ø. The coach was critical of the team's performance during the last game and encouraged everyone to do better in the next.</li> </ul>		
		D. Because the coach encouraged everyone on the team to practice harder and play better.		

	1	Identify the complex sentence.
	11.	A. There is a little dirt on this plate and an ugly stain on
		2 the table gloth
		<b>B</b> . Though there are laws to punish the terrorists, they are
		not properly applied.
		<ul><li>C. We can get many new information by using it.</li><li>D. He came to a house and asked for something to eat.</li></ul>
		D. He came to a house and asked for something to cat.
	iii.	Ideptify the sentence which contains no errors.
		A. The teachers got all the children safely out of the
		school, because the fire alarm sounded.
		B. Because it was getting late and everyone was tired
		after hiking for so many hours on such a hot day.
		C. Formal academic writing adheres to stricter rules than
		informal writing, but it doesn't contain slang
		expressions.
		D. Not only will you get free shipping, but if you order in the next thirty minutes, we will include a second set of
		kitchen knives at no extra cost.
		Antonen kinves at no extra cost.
	iv.	Identify the simple sentence.
		A. The modern technology is surely a blessing but it has
	hove	many dark sides.
		B. Though the modern technology is a blessing, it has
	and the second	many dark sides.
		C. Without a computer, we cannot imagine our modern
		life.
		D. If you don't use it, you cannot keep pace with the modern world.
		modern world.
	v.	Identify the sentence which contains no errors.
		A. Neither of the two letters of credit was useful when he
		needed it.
		<b>B</b> . The baby showed a noticeable distaste for these kind
		of prepared baby food.
		C. There will be no more supplies unless all arrears of
		payment were cleared by next Monday.
		X. They have been very close friends until they quarreled.
-		
3.	Read the	e passage and answer the following questions.
	5	Scientists Are Mapping the World's Largest Volcano
	A. After	36 days of battling sharks that kept biting their equipment, scientists
	have	returned from the remote Pacific Ocean with a new way of looking at
	the v	vorld's largest - and possibly most mysterious - volcano, Tamu Massif.
	D T	
	B. The	team has begun making 3-D maps that offer the clearest look yet at the
		rwater mountain which covers an area the size of New Maying In the
		rwater mountain, which covers an area the size of New Mexico. In the
	com	ing months, the maps will be refined and the data analyzed, with the
	com	

C. It's possible that the western edge of Tamu Massif is actually a separate mountain that formed at a different time, says William Sager, a geologist at the University of Houston who led the expedition. That would explain some differences between the western part of the mountain and the main body. (D D. The team also found that the massif (as such a massive mountain is known) is highly pockmarked with craters and cliffs. Magnetic analysis provides some insight into the mountain's genesis, suggesting that part of it formed through steady releases of lava along the intersection of three mid-ocean ridges, while part of it is harder to explain A working theory is that a large plume of hot mantle rock may have contributed additional heat and material,)a fairly novel idea. E. Tamu Massif lies about 1,000 miles (1,600 kilometers) east of Japan. It is a rounded dome, or shield volcano, measuring 280 by 400 miles (450 by 650 kilometers). Its top lies more than a mile (about 2,000 meters) below the ocean surface and is 50 times larger than the biggest active volcano on Earth, Hawaii's Mauna Loa. Sager published a paper in 2013 that said the main rise of Tamu Massif is most likely a single volcano, instead of a complex of multiple volcanoes that smashed together. But he couldn't explain how something so big formed. F. The team used sonar and magnetometers (which measure magnetic fields) to map more than a million square kilometers of the ocean floor in great detail. Sager and students teamed up with Masao Nakanishi of Japan's Chiba University, with Sager receiving funding support from the National Geographic Society and the Schmidt Ocean Institute. G. Since sharks are attracted to magnetic fields, the toothy fish "were all over our magnetometer, and it got pretty chomped up," says Sager. When the team replaced the device with a spare, that unit was nearly ripped off by more sharks. The magnetic field research suggests the mountain formed relatively quickly, sometime around 145 million years ago. Part of the volcano sports magnetic "stripes", or bands with different magnetic properties, suggesting that lava flowed out evenly from the mid-ocean ridges over time and changed in polarity each time Earth's magnetic field reversed direction. The central part of the peak is more jumbled, so it may have formed more quickly or through a different process. H. Sager isn't sure what caused the magnetic anomalies yet, but suspects more complex forces were at work than simply eruptions from the ridges. It's possible a deep plume of hot rock from the mantle also contributed to the volcano's formation, he says. Sager hopes the analysis will also help explain about a dozen other similar features on the ocean floor, as well as add to the overall understanding of plate tectonics. CLO 3 Questions (i)-(v) a) Marks Level Reading Passage has eight paragraphs, A-H. 5] 5 Select the paragraph containing the following information. Mark the correct letter, A - H, on your answer sheet.

	A.K	<ul> <li>i. Possible explanation of the differences between parts of the mountain</li> <li>ii. A new way of looking</li> <li>iii. Uncertainty of the anomalies</li> <li>iv. Equipment which measures magnetic fields</li> <li>v. The start of making maps</li> </ul>			
	b)	Questions (vi)-(ix) Select NOT MORE THAN TWO WORDS from the passage to complete the sentences.	[Marks 2]		
		<ul> <li>vi. A large plume ofrock may have contributed additional heat and material.</li> <li>vii. Tamu Massif is a, or shield volcano.</li> <li>viii. Replacing the device with a didn't help, as that unit was nearly ripped off by more sharks.</li> <li>ix. Sager believes that the magnetic anomalies were caused by something more than from the ridges.</li> </ul>		14 17 L	
<b>I</b> .	a)	Innovations in the field of Artificial Intelligence (AI) continue to shape the future of humanity across nearly every industry. However, establishing strong AI is the future of artificial intelligence. AI can currently only defeat humans in a few particular skills, but it is believed that in the future, AI will be able to beat humans in all cognitive tasks. This progress comes with both positive and negative outcomes, emphasizing how crucial it is to learn AI skills to manage and influence the future carefully.	[Marks 8]	CLO 4 Level 6	
		Now, compose an essay discussing about "The Future of Artificial Intelligence". Your description must include a thesis statement, the body of the essay, and a concluding paragraph.			