

IT IMILITED CITY

DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY

KARACHI

MID-TERM EXAMINATION OF BS CYBER SECURITY OF 1ST SEMESTER, 1ST YEAR, 2024 BATCH.

FUNCTIONAL ENGLISH

DATED: 14-11-2024 Student Name:

TIME ALLOWED; 45 Minutes Student ID Number: MAX. Marks 15

Instructions:

- 1. This paper contains <u>03</u> questions.
- (allowed / not allowed) 2. Use of Calculator is
- 4. Do not detach the sheets. (Paper will be cancelled, if the sheets are detached).

- Write your answers in ink. For drawing pencils may be used.
 The work must be neat & clean.
 Exchange / Borrow of Calculator or Stationary is not allowed.
- 8. Mobile Phones must be powered off and submitted at the given counters during the exam. 9. The Answer Script must be returned back to invigilator before leaving exam hall.

NOTE; - ATTEMPT ALL THE FOLLOWING QUESTIONS.

Q.1 Write the form of the verb specified in parentheses.

(05 Marks, CLO-2, PLO 10)

- 1. Before Mr. Kaufman's fourth child was born he (buy / past perfect) a heavy-duty clothes
- 2. Unfortunately, Adam (forget/ past perfect) to attend his memory skills seminar.
- 3. By this time tomorrow, Tim (drive / future perfect) across four states.
- 4. Ira showed me the rubber snake he (win / past perfect) at the state fair.
- 5. Scientists (measure / present perfect) winds of more than 150 miles an hour during severe
- 6. He (offer/ past indefinite) his friend to stay in his apartment during summer vacations.
- 7. By Tuesday I (spend / future perfect) my whole paycheck.
- 8. Arthur (take / present perfect) four days off this week in order to participate in a croquet
- 9. By next year Eloise and Isaac (build / future perfect) their own log cabin.
- 10. Carmel's mathematics professor (inspire / present perfect) her to become a math

Q2. Change the following from active to passive (if possible)

(05 Marks, CLO-2, PLO 10)

- (1) They had delivered the mail in the morning. (2) Sana bought this camera from Japan. (4) The cat died yesterday.
- (3) Workers are painting my office today.
- (5) The police were investigating the cause of the accident. (6) He will write a report. (8) He sent a letter to the customers.
- (7) Ann kicked the ball.

- (10) Who has broken this. (9) Open the window.

Q.3 (a) Analyze the following sentences by using or identifying parts of speech: (05 Marks, CLO-1, PLO 10)

- 1) I want to work on a national newspaper or edit a magazine.
- 2) You were the first teacher who seriously engaged my attention.
- 3) How do you deal with stress on the job?
- 5) However, I'm glad to see there are so many good people teaching too!

 6) Ramoud.
- 6) Remember– the job interview is a two-way discovery process
- (b) Fill in the correct prepositions.
- 1) My brother's birthday is ----- the 5th of November.
- 2) We are going to see my parents ----- the weekend.
- 3) I don't like walking alone in the streets ----- night.
- 4) What are you doing -----the afternoon?
- 5) My friend has been living in Canada----- two years.
- 6) I have been waiting for you ----- seven o'clock.

The End

DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI

MID SEMESTER EXAMINATION 2024 OF 1st SEMESTER, 1st YEAR (2024F BATCH) OF B.S. (CYBER SECURITY)

PROGRAMMING FUNDAMENTALS (THEORY)

DATED 15-11-2024

TIME ALLOWED 90 MINUTES

MAX. MARKS 30

Student Name :	Student Id Number :
Instructions:	

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> This paper contains <u>04</u> questions. 2.

(allowed / not allowed) Use of Calculator is

3. Cheating of any type will disqualify the candidate.

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NOTE; - ATTEMPT ALL THE FOLLOWING QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No).	CLO Assessed	Marks
01	Define the main purpose of the Von Neumann architecture.	CLO-1	[5]
02	Describe the importance of a bus in the Von Neumann architecture.	CLO-1	[5]
03	Distinguish between a compiler and an interpreter.(each 5 points)	CLO-2	[5]
	Write the Flowchart and Pseudocode	,	
04 p	<pre>def linear_search(arr, target): for i in range(len(arr)): if arr[i] == target: return i # Return the index if found return -1 # Return -1 if the target is not in the list # Example usage arr = [3, 5, 2, 9, 1] target = 9 result = linear_search(arr, target) if result != -1: print(f"Element found at index {result}") else: rint("Element not found in the list")</pre>	CLO-1	[15]

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OF ENGINEERING & TECHNOLOGY, KARACHI
TO AR OF 2024-F BATCH MIDTERM EXAMINATION OF 1st SEMESTER, FINAL YEAR OF 2024-F BATCH OF BSc, DEPARTMENT OF CYBER SECURITY, 2024.

INTRODUCTION TO INFORMATION AND COMMUNICATION TECHNOLOGIES (THEORY)

DATED 13-11-2024

TIME ALLOWED 45 MINUTES

MAX. MARKS 15

Student Name: Instructions:

Student Id Number:

- 1. This paper contains <u>02</u> questions.
- 2. Use of Calculator is allowed.
- 3. Cheating of any type will disqualify the candidate.
- 4. Do not detach the sheets. (Paper will be cancelled if the sheets are detached).
- 5. Write your answers in ink. For drawing pencils may be used.
- 6. The work must be neat & clean.
- 7. Exchange / Borrow of Calculator or Stationary is not allowed.
- 8. Mobile Phones must be powered off and submitted at the given counters during the exam.
- 9. The Answer Script must be returned to invigilator before leaving exam hall.

NOTE: - ATTEMPT ALL THE FOLLOWING QUESTIONS.

Q1. Briefly describe computer generations, provide a real-world example of how computers were used during that period.

(Level-I, CLO-1), (7.5)

Q2. Explain the types of software also write the suitable examples of each and describe how (Level-II, CLO-2), (7.5) they support daily operations or improve productivity.





DAWOOD DAWOOD UNIVERSITY OF ENGINEERING &TECHNOLOGY, KARACHI UNIVERSITY MIDTERS MIDTERS AND ARCHIVE AR OF 24th BATCH MIDTERM EXAMINATION OF 1st SEMESTER 1st YEAR OF 24th BATCH

DEPARTMENT OF CYBER SECURITY

APPLIED PHYSICS (THEORY)

DATED:

TIME ALLOWED: 90 MINUTES MAX. MARKS 30 11-11-2024

Student Signature: Instructions:

Student Id Number

- 1. This paper contains four questions.
- 2. Use of the Calculator is allowed.
- 3. Cheating of any type will disqualify the candidate.
- 4. Do not detach the sheets. (Paper will be canceled, if the sheets are detached).
- 5. Write your answer in ink. For drawing pencils may be used.
- 6. The work must be neat & clean.
- 7. Exchange / Borrowing of Calculator or Stationery is not allowed.
- 8. Mobile Phones must be powered off and submitted at the given counters during the exam.
- 9. The Answer Script must be returned to the invigilator before leaving the exam hall.

NOTE: - ATTEMPT ALL THE FOLLOWING QUESTIONS

(CLO 2, PLO2) L2(5marks) Q # 0.1 (a) What is momentum? State and explain law of conservation of momentum.

(b) A driver drives the 1500 kg car towards west at 25 m/s for 120 minutes. What is the car's momentum?

(CLO 3, PLO3) L3(3marks)

Q #02 (a) What is projectile motion? Drive the expression for the height of the projectile.(CLO 2, PLO2) L2(5marks)

(b) An object is launched at an angle of 356 with a velocity of 20 m/s. Calculate the range of the object.

(CLO 3. PLO3) 3(3marks)

O #03 (a) What is flux? State and explain Gauss's law.

(CLO 2, PLO2) L2(5marks)

(b) A point charge of $2 \mu C$ is at the center of the cubical Gaussian surface of 5 cm edge. Find flux through the surface

Q # 04 Define the following terms:

(CLO 3, PLO3) L3(3marks) (CLO 1, PLO1) L1(6marks)

/> Faraday's law Len'z law

* Electric current

THE END

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DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI

MID SEMESTER EXAMINATION 2024 OF FIRST SEMESTER FIRST YEAR (1st SEMESTER) (2024F BATCH) OF B.S. (CYBER SECURITY)

COMPUTER & INFORMATION SECURITY (THEORY)

DATED 12-11-2024

TIME ALLOWED 90 MINUTES

MAX, MARKS 30

Student Name :

Student Id Number : _

Instructions:

- This paper contains 04 questions.
- (allowed not allowed)
- Use of Calculator is (allowed, not allowed)

 Chesting of any type will disqualify the candidate

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- Write your answers in ink. For drawing pencils may be used.
- The work must be neat & clean
- Exchange Borrow of Calculator or Stationary is not allowed

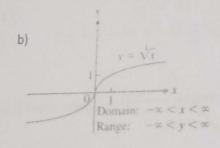
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1. Consider the given graphs and discuss:

CLO-1, C-2, PLO-1, 8 marks

- Symmetry of the graph
- Is it increasing function or decreasing function? ii.
- Is it even function or odd function?

Domain: $x \neq 0$ Range: r>0



OR

Discuss at what value of "x"

$$f(x) = \frac{6x+9}{x^2+4x-5}$$
 is not a function?

A function "f" is defined by

$$f: \mathbf{x} \to 2\mathbf{x}^2 + \mathbf{x} - \mathbf{3}$$
 with domain $\mathbf{x} = \{0, 1, -2, -3, 4\}$.

Find the image of set of "f"?

2. Locate the following I & II Piece-wise functions on graph:

CLO-1, C-2, PLO-1, 7 marks

Show that the following "I" function is continuous and differentiable at x = 1

$$f(x) = \begin{cases} x^2 + 1, & x \le 1 \\ 2x, & x > 1 \end{cases}$$

//.
$$f(x) = \begin{cases} x, & 0 \le x < 1 \\ 3 - x, & 1 < x \le 2 \end{cases}$$

3 Apply limits to the following functions:

CLO-2, C-3, PLO-2 8 marks

ii.
$$\lim_{x \to 5} x^2 - 25$$

iii.
$$\lim_{x \to 9} \frac{\sqrt{x-3}}{x-9}$$
iv.
$$\lim_{x \to 0} \sqrt{8 + \sec^2 x}$$

4 Determine the derivatives of the following, then evaluate the values as specified:

$$i. \quad f(t) = \frac{1-t}{2t}$$

$$f'(-1)$$
 and $f'(1)$

i.
$$f(t) = \frac{1-t}{2t}$$
 $f'(-1)$ and $f'(1)$ ii. $\frac{dr}{ds}$ if $r = s^3 - 2s^2 + 3$ $f'(-2)$ and $f'(4)$

$$f'(-2)$$
 and $f'(4)$

CLO-2, C-3, PLO-2, 7 marks

OR

Determine $\frac{x^2+4x+3}{x-1} > 0$, also show it in number line, interval notation and set builder form.