

Reference ID: _____ Name: _____

Program (CS): _____ Signature: _____

University of Management and Technology

Sample Admission Test

Fall 2021

PHD (CS)

Maximum Time: 90 Minutes

Total Marks: 100

There are 35 MCQs of two marks each.

There are two subjective type questions of 15 marks each.

- Give your answer (in the form of choice A, B, C, D or E) on the provided *ANSWER SHEET* only (given on the last page)
- MCQs answers marked on the question paper will NOT be considered
- Do NOT unstaple or detach the answer sheet

- 1) A cookie file is an important component of cookie technology used in internet. A cookie is:
 - a. Kept at server and managed by server
 - b. Kept at client and managed by server
 - c. Kept at client and managed by Browser
 - d. Kept at server and managed by Browser

- 2) Which of the following is NOT true with respect to File Transfer Protocol
 - a. FTP is a stateful protocol
 - b. FTP uses TCP transport
 - c. FTP uses in-band control communication
 - d. FTP uses ASCII characters as commands

- 3) In internet, the information chunk at Datalink layer is called:
 - a. Message
 - b. Segment
 - c. Frame
 - d. Packet

- 4) The operating system manages
 - A. Memory
 - B. Process
 - C. Disk and I/O devices
 - D. all of the mentioned

- 5) Paging is implemented in?
 - A. Operating system
 - B. Hardware
 - C. Software
 - D. All of them

- 6) First-in-First-Out(FIFO) scheduling is
 - A. Non preemptive Scheduling
 - B. Preemptive Scheduling
 - C. Fair share Scheduling
 - D. Deadline Scheduling

- 7) Which is not a software life cycle model?
 - A. Waterfall
 - B. Spiral
 - C. Prototyping model
 - D. Entity Relationship model

- 8) Which pair of SQL keywords is used to create and delete records in a table?
 - A. INPUT,DELETE
 - B. CREATE,ALTER
 - C. INSERT,DROP
 - D. INSERT,DELETE

Descriptive Questions

Q1: Explain *Any One* of the following given topics. Marks=15

- I. Briefly explain Role/Job of each layer in TCP/IP Model
- II. Dynamic Programming is a method of optimization. Briefly describe dynamic programming. What characteristics are required for a problem to solve it by dynamic programming.

Q1: Explain *Any One* of the following given topics. Marks=15

- I. Briefly Describe Set-Associative Cache.
- II. How is an array different from a linked list?

Student ID : _____ Student Name: _____

ANSWER SHEET

Valid answer choice is **A, B, C or D only**. No other choice would be considered as a valid answer.

Question Number	Answer Choice	Question Number	Answer Choice	Question Number	Answer Choice	Question Number	Answer Choice
1		12		23		34	
2		13		24		35	
3		14		25			
4		15		26			
5		16		27			
6		17		28			
7		18		29			
8		19		30			
9		20		31			
10		21		32			
11		22		33			