

**PUNJAB UNIVERSITY COLLEGE OF INFORMATION
TECHNOLOGY, UNIVERSITY OF THE PUNJAB**



Sheet No.:

Invigilator Sign:

Monday, May 23, 2022

**BS Information Technology Fall 2021
Final Term Examination – May 2022**

Student ID:	Student Name:
Shift / Section: Morning	Student Signature:

Course Code: GE-161-2

Course Title: Introduction to ICT

Maximum Time: 120 Minutes

Maximum Marks: 120

Instructions

- Read questions carefully before solving.
- Solve all the questions on this paper.
- Use of calculator is **NOT** allowed.
- Understanding of the questions is part of examination. So, none of your queries will be entertained in the examinations hall.
- If there is any ambiguity in the paper, benefit will be given to the students.
- **Paper has eight printed pages including the title page.**

PART	1	2	3	4	5	TOTAL
Total Marks	25	15	40	18	22	120
Obtained Marks						

Examiner Signature:

Marks Out of 40:

DO NOT OPEN UNTIL YOU ARE TOLD TO DO SO

For Rough Work Only

1. Question 1: [25x1 marks] Fill in the blanks with appropriate words [estimated time 25 minutes]

- i. For the e-mail address *jsmith@cengage.com*, *jsmith* is the _____ and *cengage.com* is the _____ name.
- ii. _____ is an international coding system for text-based data using any written language.
- iii. USB 3.0 standard (also called SuperSpeed USB) is about _____ times as fast as USB 2.0.
- iv. PCI (Peripheral Component Interconnect) bus is essentially been replaced with the _____.
- v. _____ ports and _____ ports are used to receive wireless transmissions from devices; because the transmissions are wireless, these ports do not use a plug.
- vi. If there are two or more processors or processing cores are located within a single computer, techniques that perform operations simultaneously such as _____ (where each processor or core typically works on a different job) and _____ (where multiple processors or cores work together to make one single job finish sooner) are possible.
- vii. NAS and SAN stand for _____, _____.
- viii. The unit for measuring the quality of scanned images indicated by optical resolution is _____.
- ix. _____ code that represents data with a matrix of small squares.
- x. The means by which an operating system or any other program interacts with the user is called the _____.
- xi. _____ is a memory-management technique that uses hard drive space as additional RAM.
- xii. The process of placing items in a buffer so they can be retrieved by the appropriate device when needed is called _____ or _____.
- xiii. Cloud software is also referred to as Software as a _____ and _____.
- xiv. In a relational database, the database object that contains the actual data is the _____.
- xv. IPv4 allows _____ unique addresses.
- xvi. Ethernet is usually used with LAN's that have a _____ topology.
- xvii. Two alternatives to the Ethernet standard for wired home networks are the _____ and _____ standards.
- xviii. _____ is the term used for any software program that is installed without the user's knowledge.

2. [15x1 marks] Circle T for true and F otherwise.

[estimated time 15 minutes]

- i. **T F** A computer system with a C drive and a D drive must have two physical hard drives
- ii. **T F** Cache memory is typically built into a CPU.
- iii. **T F** “ls” is command used to display a text or a string to the standard output or a file in Linux.
- iv. **T F** Tree is valid DOS command.
- v. **T F** A hybrid hard drive contains both magnetic hard disks and optical discs.
- vi. **T F** Secure Digital (SD) cards are one type of magnetic storage medium.
- vii. **T F** Holographic storage is emerging type of 2D storage technology.
- viii. **T F** Changing the font size in a document is an example of a formatting operation.
- ix. **T F** The formula =A2+B2 located in cell C2 would add two cells to the right of cell C2.
- x. **T F** The type of cable used inside most homes for telephone service is coaxial wire.
- xi. **T F** Webinar is a Web site designed to allow individuals to easily create/publish blogs.
- xii. **T F** On the Internet, an access provider and a content provider are the same thing.
- xiii. **T F** When the Internet was first developed, it was called Mosaic.
- xiv. **T F** XML is a tool used to specify and apply the styles used for a Web site.
- xv. **T F** JavaScript is developed to enable Web authors to implement interactive Web sites.

3. [10x4 marks] Write brief answers to the following questions.

[estimated time 40 minutes]

- i. Name any three symptoms of Computer Vision Syndrome.

- ii. What is a Hot-swappable device?

- iii. Differentiate Multiprocessing and Parallel Processing?

iv. What is throughput and how it is measured?

v. Name the two protocols in TCP/IP.

What is a Primary Key?

vi. Differentiate between Absolute & Relative Cell Referencing.

vii. What is RFID and RFID tag?

viii. Define blog, a wiki, and a podcast.

ix. Differentiate between Dial-Up and Direct connections.

4. [3 x 6 marks.] Solve the following numerals.

[estimated time 20 minutes]

- i. You have a USB drive of capacity 8 GB. If a book on average has 400 pages, each page carries 30 lines, each line has 1.5 sentences, each sentence is comprised of seven words, each word has five characters and each word is separated with single space or “.”, then calculate the total number of text books that can be stored on your USB drive.

- ii. We need to transfer a 500 KB image from one computer to another on a 1 Mbps network connection speed. Calculate how much time it should take to transfer?

- iii. If a computer program needs 9876543210 numbers of instructions to be executed on a computer having 1 GHzs processor, then calculate the amount of time required to execute this program.

5. [2 x 11 marks.] Solve the following numerals.

[estimated time 20 minutes]

- i. Write HTML code to display the following context in a web browser.

Companies Detail

Company	Contact	Country
Shell	Anders	Holland
Facebook	Mark	USA

[illegible]

[illegible]

- ii. Write a Microsoft ® Windows batch program which performs following task as a series of commands.
- Clears the Screen, Creates two folders named **folder1** and **folder2** at location **C:\Users\Desktop**
- Creates one file each within **folder1** and **folder2** named **file1.txt** and **file2.txt**
- Copy the file **file1.txt** from **folder1** to **folder2** and Copy the file **file2.txt** from **folder2** to **folder1**
- Delete **folder1** and Delete **folder2** and Displays the message **Task Completed** at the Screen

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.