



COMSATS UNIVERSITY ISLAMABAD
DEPARTMENT OF COMPUTER SCIENCE
MID TERM EXAMINATION, SPRING 2022

Class/Section: - BSAI / BSDS - 1A

Subject: - Introduction to ICT

Instructor: - Rizwan Rashid

Marks: - 25

Time: - 90 minutes

Dated: - 10-05-22

Question# 01.

[8 Marks]

- 1-A) Define ICT? Explain the role of ICT in education and business during the COVID-19 phase? 2)
- 1-B) How many machine cycles are required to execute the addition instruction of 4+6. Write steps of each cycle. 3)
- 1-C) Suppose you are currently working on PowerPoint presentation software, for entering material in it you have launched chrome application. You have been working for almost an hour on these two applications. Suddenly you have opened Word processor to collect previously compiled data. Which type of memory will be used to launch each application and why? 2)
- 1-D) Give few examples of Embedded Systems. 1)

Question# 02.

[7 Marks]

- 2-A) The user has entered a number 4012 and 785 from the keyboard to be added. Perform the conversions that how computer will convert the numbers into binary. 4)
- 2-B) Consider an image having 4300 x 3500 pixels. What would be the size (in bytes) of the image in a RGB (red, green, blue) channel? 3)

Question# 03.

[10 Marks]

- 3-A) What is a network topology? Explain different types of network topologies with the help of an example. 3)
- 3-B) Differentiate between a utility software and the system software. Give examples. 2)
- 3-C) Suppose you want to set a private network that is similar to the World Wide Web for use by employees of a specific organization, then which type (Intranet, Extranet, VPN, etc) of network you will use to deploy? 2)
- 3-D) What is War Driving and Wi-Fi Piggybacking? 2)
- 3-E) If government organization wants to decide about disaster risk of an area or geographical crime patterns, which sort of information system they must use? 1)

Q Search