

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Winter2017 – 18 Examination

Semester:1,2
Subject Code:03108102
Subject Name: Information & Communication Technology

Date: 01/01/2018
Time: 02:00pm to 04:30pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions**(15)**

1. The Octal equivalent of the binary number 1101010 is -----.
2. The full form of CISC is -----.
3. Full form of URL-----
4. A ----- is an electromechanical device that accepts data from outside world and translate them into a form a computer can interpret.
5. Computer communicates with each other in ----- language.
6. Find the decimal equivalent of the binary number 1101110
7. What is the function of Program Control?
8. Write an example of unguided media.
9. What is an amplifier?
10. What are the two popular network layer protocols?
11. Encoding or scrambling data for transmission across a network is known as:
 (a) protection (b) Detection (c) Encryption (d) Decryption
12. Which of the following represents one billion characters?
 (a) kilobyte (b) Megabyte (c) Gigabyte (d) Terabyte
13. When a computer is booting, BIOS is loaded to the memory by
 (a) RAM (b) ROM (c) CD-ROM (d) TCP
14. Glass fibers have thickness equal to
 (a) Test tube (b) Capillary tube (c) Hair (d) Half inch ribbon
15. ICT is a blend of
 (a) IT and Telecommunication (b) Technology and communication
 (c) Codes and information (d) IT and social networking

Q.2 Answer the following questions. (Attempt any three)**(15)**

- A) Draw a block diagram to illustrate basic organization of a computer system and explain the function of various units.
- B) Describe the evolution of a processor in detail.
- C) What is Information & Technology? Give use of it in our daily life.
- D) Explain about the classification of software.

Q.3 A) Write in detail about the OSI layers in network.**(07)**

- D) Differentiate between volatile and non-volatile memory.

(08)**OR**

- E) Explain in detail about types of network topology.

(08)**Q.4 A) Write the algorithm and pseudo code for finding a number is prime or not.****(07)****OR**

- A) Explain the different types of switching techniques in detail.

(07)

- B) What is guided and unguided media? Explain.

(08)