

GANPAT UNIVERSITY
B. Tech SEMESTER-III (OPEN ELECTIVE)
Regular Examination : Nov-Dec 2013
20S301 Introduction to Computer Technology

Time: 3 Hours]

[Total Marks: 70

Instructions:

1. Figures to the right indicate full marks
2. Each section should be written in a separate answer book
3. Be precise and to the point in your answer

SECTION-I

Q.1 Answer the following.

- (A) Explain RAD Model and discuss its advantage and disadvantage. (6)
- (B) Describe Active attacks in security with example. (6)

OR

Q.1 Answer the following.

- (A) Explain Spiral Model and discuss its advantage and disadvantage. (6)
- (B) Describe Passive attacks in security with example. (6)

Q.2 Answer the following.

- (A) Explain basic structure of computer system with block diagram. (6)
- (B) Describe Bus Topology with example. (5)

OR

Q.2 Answer the following.

- (A) Compute addition and multiplication of $(1101)_2$ and $(1011)_2$. Also find decimal equivalent of hexadecimal number $(2D.CC)_{16}$. (6)
- (B) Differentiate Hub and Switch with suitable example. (5)

Q.3 Answer the following.

- (A) Convert $(456)_8$ to binary, decimal and hexadecimal number equivalent. (6)
- (B) List out and explain various Operating System functions. (6)

P.T.O

SECTION-II

Q.4 Answer the following.

- (A) What is web? How can we access web? (6)
(B) Explain the need of various Office tools. (6)

OR

Q.4 Answer the following.

- (A) Why do we need Office automation tools? (6)
(B) Explain hard disk drive with structure diagram. (6)

Q.5 Answer the following.

- (A) What are the attributes of good software? Also explain key challenges in facing software development. (6)
(B) Difference between hardware & software. (5)

OR

Q.5 Answer the following.

- (A) Explain Parallel Systems. (6)
(B) Explain Classification of computer. (5)

Q.6 Answer the following.

- (A) What is software? Explain types of software in details. (6)
(B) Write short notes on **(Any Three)**: (6)
a. HTML
b. Domain Name Addressing
c. URL
d. IP Addressing