



Name :

Roll No. :

Invigilator's Signature :

CS/BMS(H)/SEM-3/MMS-305/2010-11

2010-11

INFORMATION AND COMPUTER TECHNOLOGY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

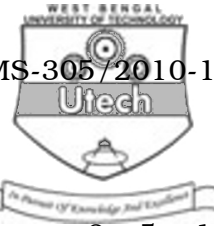
(Objective Type Questions)

1. Answer the following questions : 10 × 1 = 10

- i) UTP stands for
 - a) Unguided Twisted Pair
 - b) Unreliable Twisted Pair
 - c) Unknown Twisted Pair
 - d) Unprotected Twisted Pair.
- ii) The extension of Microsoft Word file is
 - a) .txt
 - b) .doc
 - c) .ppt
 - d) .xls
- iii) Communication system is a combination of
 - a) Hardware
 - b) Software
 - c) Data transfer links
 - d) All of these.



- iv) What is the full form of OSI ?
- v) What is analog data ?
- vi) Which type of the following files can a user send as an attachment ?
 - a) Text file
 - b) Document file
 - c) Video file
 - d) All of these.
- vii) Which one of the following is system software ?
 - a) Microsoft Office
 - b) Adobe Photoshop
 - c) Operating Systems
 - d) Oracle.
- viii) LAN stand for
 - a) Limited Area Network
 - b) Local Area Network
 - c) Long Area Network
 - d) Local Audiovisual Network.
- ix) Every web page has a unique address, called a
 - a) Hyperlink
 - b) Map
 - c) HTTP
 - d) Uniform resource locator.
- x) The expression mbps stands for
 - a) ten thousand bits per second
 - b) megabits per second
 - c) gigabits per second
 - d) microbits per second.



GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. What are the differences between analog and digital transmissions ? What are the five components of a data communication system ? $3 + 2$
3. What do you mean by multiplexing ? Discuss the basic difference between TDM & FDM. $2 + 3$
4. Describe about the different types of cables used in networking.
5. Describe about the different types of cables used in networking.
6. What do you mean by network ? Explain various types of network.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. What are the advantages of optical fibre over twisted pair and coaxial cable ? What are the advantages of shielded twisted pair over unshielded twisted pair ? What is the purpose of cladding in an optical fibre as a transmission medium ?
What is TCP ? $4 + 4 + 3 + 4$

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8. What are the major advantages and disadvantages of radiowave transmission ? What are AM, FM, ASK, FSK, PSK ?

5 + 10

9. What is synchronous and asynchronous transmission ? What is the difference between the two ?

10. Write short notes on any *three* of the following : 3 × 5

- a) Router
- b) Firewall
- c) Frequency modulation
- d) LAN, MAN & WAN.

11. a) What is Network Topology ? Describe at least three examples.

b) Describe OSI model in detail with diagram.

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