

## SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Explain the architecture details of bluetooth. show its different layers.

Q.4 Explain transmission of signal using ask. Show all wave for ms.

Q.5 i) Explain in brief the historical perspective of internet

ii) What do you mean by protocols.

Q.6 Explain an internet model by showing different layers.

Q.7 Write short note on following

i) Session layer in OSI

ii) Bluetooth.

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**6th Sem. / EI**

**Subject : Data Communication & Net Works**

Time : 3 Hrs.

M.M. : 100

## SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) Expand PSK.

b) What is a layer in a protocol.

c) Expand OSI.

d) Fiber optic is \_\_\_\_\_ transmission media. (guided / unguided)

e) FM has \_\_\_\_\_ side bands.

f) What is frequency range of infrared transmission.

g) Define a cell.

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(4)

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(1)

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- h) The shape of cell is \_\_\_\_\_.
- i) Define Handoff.
- j) GSM is based on \_\_\_\_\_. (TDMA/ FDMA)
- k) What is PSTN in mobile telephony.
- l) What is L2cap in bluetooth.
- m) How many satellites are needed to cover entire earth.
- n) Define footprint in satellites.
- o) Write any two drawbacks of co-axial cable.
- p) What is hierarchy in network models.
- q) Define a standard.
- r) Expand Modem.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

Q.2 i) What are different capabilities of internet.

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- ii) What are different internet standards.
- iii) What is function of network layer.
- iv) Differentiate between Bit and Baud.
- v) Explain main features of phase modulation.
- vi) What are microwaves, what are their advantages.
- vii) Write a note on twisted pair cable.
- viii) Write features of first generation cellular system.
- ix) What is Roaming in cellular systems.
- x) Write in brief the frequency re-use principle.
- xi) Write main features of MAC layer.
- xii) What are foot prints in satellites.
- xiii) What are main features of MEO satellite.
- xiv) What is infrared transmission.
- xv) What are different Modem standards.

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