Total No. of Questi	ions :	5]
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SEAT No.:	
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P5144

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[5823]-402 S.Y. B.Sc.

COMPUTER SCIENCE

CS - 242 : Computer Networks - I (2019 Pattern) (Semester - IV)

Time: 2 Hours] [Max. Marks: 35

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagram must be drawn if necessary.

Q1) Attempt any EIGHT of the following (Out of TEN).

 $[8 \times 1 = 8]$

- a) What is Port address?
- b) What is the size of IPv4 & IPv6 Address?
- c) List application Layer Protocol.
- d) "UDP is Connection Oriented Protocol." State the statement is true / false.
- e) What is the function of Presentation layer?
- f) What is Protocol?
- g) Which devices operates at physical layer.
- h) What is Bandwidth?
- i) What is CSMA/CD?
- j) Define Masking.

Q2) Attempt any FOUR of the following (Out of FIVE).

 $[4 \times 2 = 8]$

- a) Define Terms:
 - i) Jitter
 - ii) Latency
- b) Write Nyquist & Shannon's formula for calculating data rate of a channel.
- c) Define routing.

d)	Det	fine following Data communication standards:
	i)	De Facto
	ii)	De Jure
e)	Ap	ply bit stuffing on Pattern 01101111111111110010

Q3) Attempt any TWO of the following (Out of THREE). $[2 \times 4 = 8]$

- a) Explain Multiplexing & De_multiplexing in transport Layer.
- b) What is Taxonomy for Media Access Protocol?
- c) Which are the methods of framing.

Q4) Attempt any TWO of the following (Out of THREE). $[2 \times 4 = 8]$

- a) Write note on Circuit Switching.
- b) For the given IP address 205.16.37.39/28 in some block of address, Calculate:
 - i) Address Mask
 - ii) First Address of block
 - iii) Last address of block
 - iv) Number of addresses in the block
- c) Write note on UDP

Q5) Attempt any ONE of the following (Out of TWO). $[1 \times 3 = 3]$

- a) What is BSS & ESS? Explain in detail.
- b) Explain TCP/IP Model in detail.

