Total No. of Questions: 8]	250	SEAT No.:
P-9668		[Total No. of Pages : 2
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## [6182]-932 M.E. (Electronics & Telecommunications - IoT and Sensor System)

141.17	(L)	lectronics & Teleconfinalitications - 101 and Sensor System)
	$\mathbf{L}$	DATA COMMUNICATION & NETWORKING
		(2017 Pattern) (Semester - I) (504602)
Time	: 3 H	ours] [Max. Marks : 50
Instru	ctions	s to the candidates:
	<i>1</i> ) .	Answer any 5 questions out of 8.
	<i>2</i> )	Neat diagrams must be drawn wherever necessary.
		Figures to the right indicate full marks.
	<b>4</b> )	Assume suitable data, if necessary.
01)	۵)	Wantain the data communication to be a send throw the lights on its
<b>Q</b> 1)	a) C	Explain the data communication techniques and throw the lights on its types. [5]
	b)	Explain the layered architecture related to data communication and
		networking. [5]
<b>Q</b> 2)	a)	Explain about the motivation for cross layer protocol design with neat
		diagram. [5]
	b)	Explain network traffic behaviour under the context of network layers
	ĺ	and topology design. [5]
		8
()2)	0)	Explain the fundamentals of time synchronization and how it is fruitful
<i>Q</i> 3)	a)	to network management. [5]
	1 \	
	b)	Explain the types of sensors which are used in sensor network of data communication and networking. [5]
<b>Q4</b> )	a)	What is a self-organizing network? And how does it work? [5]
	b)	What do you understand by multimedia? What type of data is communicated
		in multimedia communication? [5]
		D.T. O.

*P.T.O.* 

- Why Software defined Networking (SDN) is important in data **Q5**) a) communication.
  - Explain the term reliability and why it is important for data communications b) and networking. [5]
- **Q6**) a) What does scheduling mean? Write the names of two networks used in data communication and networking. [5]
  - Explain wireless sensor networks. Why is wireless networking preferred b) over wired networks? [5]
- What are the transport and application layers that are widely used in **Q7**) a) data communication and networking? [5]
  - Explain the term quality of service (QoS) used extensively in data b) communications and networking. [5]
- What is encryption? Is it different from decryption or not? Explain any (8)encryption technique. [5]
  - Explain the term queuing as it relates to data communications and b) 15.

    One of the state of the st networking. [5]