Total No. of Questions : 8]

P3350

[5670]-619 B.E. (E & TC)

SEAT No. :

[Total No. of Pages : 2

[Max. Marks : 70

[8]

[6]

[6]

[6]

[8]

Wireless Sensor Network

(2015 Pattern) (Semester - II) (404192C) (Elective - IV)

Time : 2½ Hours] Instructions to the candidates:

- Neat diagrams must be drawn wherever necessary. 1)
- Figures to the right indicate full marks. 2)

Explanation operating system of WSN in terms of *01*) a)

Memory management.

Interrupts.

- Tasks, Threads & Events (An
- b) Write note on :

Sensor MAC. i)

B-MAC. ii)

c) Compare wireless HART and ISA 100.11 a.

OR

Explain in detail : Architecture of WSN. *Q2*) a)

- b) Differentiate between Backward Error Control and Forward Error Control with suitable examples. [8]
- c) Explain protocol stack of WSNs.

ge Fre. Compare Range-Based localization & Range Free localization. *Q*3) [8] a)

- Write a note on : **b**)
 - i) Routing Basics.
 - Routing Metrics. ii)

P.T.O.

Q4)	a)	Explain various Routing Metrics and Routing Protocols in WSN.	[8]
	b)	What is Full Network Broadcast?	[8]
Q5)	a)	What are different clustering techniques?	[8]
	b)	Write a note on	[8]
		i) In Network Processing.	\sim O'
		ii) Data Aggregation.	U
06)	a)	OR Explain security issues in wireless sensor networks.	♦ [9]
Q6)	a) b)	Explain Denial of service attack taking place at each layer.	[8] [8]
	0)	Explain Dental of Service attack taking place at cachtayer.	[v]
Q7)	a)	Explain in detail : Designing and Deploying WSN applications.	[8]
	b)\	What are general problems for deploying WSN applications.	[10]
		QR	
Q8)	a)	Explain : The Top-Down Design process.	[8]
	b)	How were Early WSN Deployments.	[10]
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[5670]-619 2 10-2 10-2 10-2 10-2 10-2 10-2 10-2 10			