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## PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

## Branch - APPLIED ELECTRONICS <u>IoT AND ITS APPLICATIONS</u>

Time: Three Hours	Maximum: 50 Marks	
SECTION-A Answer ALL ALL questions carry E	questions	$(5 \times 1 = 5)$
In IoT systems, the level 3 is     (i) data generation     (iii)autonomous	(ii) first analytic (iv) deep learning	s
2is a short range wireless to (i) AFC (ii) NFC	echnology. (iii) QoS	(iv) transistor
3. An actuator is a compensation of the system.	ponent or system the	hat moves or controls the
(i) Machine (ii) motor	(iii) hydralic	(iv) controllers
An is a software and hardware (i)capacitor (ii) ios	re. (iii) kernel	(iv) IoT
5. In Image processing, data analysis and clustering.		
(i) groups (ii) patterns	(iii)pattern red	cognition (iv) all
SECTION - B ( Answer ALL ( ALL Questions Carry I	Questions	$(5 \times 3 = 15)$
6. a. Explain the IoT design the method (OR)	dology in detail.	
b. With a neat diagram, explain abou	at cloud service.	
7. a. Discuss about industrial and autor (OR)	notive networks.	
b. Justify the QoS in IoT systems.		
8. a. Classify the various embedded has (OR)	rdware's in detail.	
b. Explain about controllers with dia	grams.	
9. a. Discuss about the operation system (OR)		
<ul> <li>b. Illustrates the building IoT applica</li> </ul>	ations using CC322	XX.

10 a. List out the challenges in managing IoT data.

(OR)

b. Write a detailed note on forecasting.

## SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11. a Explain the different levels of IoT systems.

(OR)

- b Categorize the various design challenges with examples.
- 12. a Elucidate wireless sensors and its applications.

(OR)

- b Categorize the layer protocol optimization with examples.
- 13. a Enumerate the embedded devices and its applications.

(OR)

- b Analyze the architecture of CC32XX in detail.
- 14.a Enumerate the android applications with examples.

(OR)

- b Elucidate about embedded Linux.
- 15. a Discuss in detail about data models and data acquisition in sensor networks.

(OR)

b Elucidate query processing and query optimization in detail.

Z-Z-Z END