(6 pages) Reg. No. :	3. Which characteristics involve the facility the thin
Code No.: 7744 Sub. Code: ZCIM 32	to respond in an intelligent way to a particul situation?
M.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.	(a) Intelligence (b) Connectivity (c) Dynamic Nature (d) Enormous Scale
Third Semester	4. IoT devices are naturally vulnerable t
Computer Science with Artificial Intelligence – Core INTERNET OF THINGS	(a) Sensors (b) Heterogeneity (c) Security (d) Connectivity
(For those who joined in July 2022 onwards)	5. Which challenge comes under IoT devices, reliable bidirectional signaling.
Time : Three hours Maximum : 75 marks $PART A - (10 \times 1 = 10 \text{ marks})$	(a) Signaling(b) Security(c) Presence detection (d) Power consumption
Answer ALL questions. Choose the correct answer: Who is the father of ioT?	6. With physical security, the stakes are incredible (a) Very high (b) Low (c) Very low (d) High
(a) Kevin Atrun (b) Kevin Atrhur (c) Kevin Ashton (d) Kevin Thomas 2. Several instructions execution simultaneously in? (a) Processing (b) Parallel processing (c) Serial processing (d) Multitasking	7 are designed to protect data and servers. (a) Physical walls (b) Logical firewalls (c) Both Physical and logical (d) Neither physical nor logical Page 2 Code No.: 774

8.	Con	amunication between and is encrypted for security.	
	(a)	Cloud and device	
	(b)	End user and data center	
	(c)	Network and device	
	(d)	Cloud and Network	
9.	Usin	ng what the processor wake-up from power-n?	
	(a)	External Interrupts	
	(b)	Internal interrupts	
	(c)	Serial Programming	
	(d)	Program Counter	
10.	The Arch	number of elements in the Open IoT nitecture?	
	(a)	6 elements (b) 8 elements	
	(c)	7 elements (d) 3 elements	
		PART B — $(5 \times 5 = 25 \text{ marks})$	
	Answe	r ALL questions, choosing either (a) or (b).	
		ch answer should not exceed 250 words.	
11.		What are the characteristics of IoT? Explain.	

Or

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monitoring in IoT.

Describe the different types of environment

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8.

(b)

12. Elaborate the domain model of IoT.

Or

- (b) Summarize the IoT reference architecture with diagram.
- 13. (a) Distinguish between the SCADA and RFID protocols.

. Or

- (b) Point out the types of unified data standards.
- 14. (a) Explain the difference between Web of Things and Internet of Things.

Or

- (b) Analysis the platform middleware for WoT.
- 15. (a) Highlight the clustering in internet of Things.

Or

Identify the need of synchronization and (b) software agents.

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PART C - (5 \times 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Examine the logical design of IoT.

Or

- (b) Determine the steps to IoT design methodology.
- 17. (a) Outline the need of ETSI M2M high-level architecture.

Or

- (b) Illustrate the implementation of OGC architecture with diagram.
- 18. (a) Draw and explain the general architecture of IEEE 802.15.4.

Or

(b) Elaborate the security services of BACNet protocol.

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19. (a) Discuss the unified multitier WoT architecture.

Or

- (b) Analysis the purpose of cloud providers and systems.
- 20. (a) Demonstrate the agility in collaborative production environments.

Or

(b) Conclude the applications of electrical vehicle charging.

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