

Program: Master of Computer Applications

Curriculum Scheme: CBCGS

Examination: MCA First Year Semester II

Course Code: MCAE242 and **Course Name:** Internet of Things

Time: 2 HRS

Max. Marks: 80

Section I - MCQS (40 Marks) – 40 Minutes

Section II – Subjective (40 Marks) – 80 Minutes

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Section I

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	M2M refers to those solutions that allow communication between devices of_____
Option A:	the same type and a various applications, all via wired or wireless communication networks
Option B:	the different type and a specific application, all via wired or wireless communication networks
Option C:	the different type and different application, all via wired or wireless communication networks
Option D:	the same type and a specific application, all via wired or wireless communication networks
Q2.	Which of the following is characteristic of Big Data?
Option A:	Volume, Velocity, Variety
Option B:	Database, Datawarehouse, Data Mining
Option C:	Information, Metadata
Option D:	Volume, Datawarehouse, Metadata
Q3.	A truck fleet could be rendered inoperable is an example of_____.
Option A:	Theft
Option B:	Productivity
Option C:	Privacy
Option D:	Safety
Q4.	Information Model specification focuses on _____ class of the domain model.
Option A:	Physical Entity
Option B:	Virtual Entity
Option C:	Services
Option D:	Resource
Q5.	Which of the following view of IoT Reference Architecture describes the data and

	information that the system handles.
Option A:	Functional View
Option B:	Information View
Option C:	Deployment view
Option D:	Operational view
Q6.	Smart Agriculture IoT application doesn't contain which of the following application?
Option A:	Smart Lighting
Option B:	Green House Control
Option C:	Smart Irrigation
Option D:	Cattle monitoring and management
Q7.	IoT standardization efforts focusing on _____
Option A:	data representations and APIs (i.e., protocols).
Option B:	Web Services
Option C:	Cloud Technology
Option D:	Sensors
Q8.	Coordinator in WSN can act as _____ that connects the WSN to Internet.
Option A:	Gateway
Option B:	Router
Option C:	Switches
Option D:	Sensor Node
Q9.	What is the goal of OGC SWE (Sensor Web Enablement) work group for WoT standardization?
Option A:	creating open standards for M2M communications to foster the creation of a future network of objects and services.
Option B:	creation of web-based sensor networks to make all sensors and repositories of sensor data discoverable, accessible, and where applicable, controllable via the WWW
Option C:	to provide consistent terminology that is a foundation for supplier and manufacturer communication, to provide consistent information models
Option D:	to provide consistent terminology that is a foundation for supplier and manufacturer communication, to provide consistent information models,
Q10.	The full form of 6LoWPAN in IETF architecture is-----.
Option A:	IPv6 over Low-power Wide Personal Area Network
Option B:	IPv6 over LoW Power Area Network
Option C:	IPv6 over Low-power Wireless Personal Area Network
Option D:	IPv6 over Low-power Wired Personal Area Network
Q11.	_____ deals with highest OSI level (OSI Layer-7) to handle applications, services and data.
Option A:	Internet of Things
Option B:	Web of Things
Option C:	Cloud of Things
Option D:	Internet of Everything

Q12.	Taking the RFID scenario as an example, in which security issue, the data are read directly from the tag without the knowledge or acknowledgment of the tag or device holder?
Option A:	Skimming
Option B:	Data tampering
Option C:	Cloning
Option D:	Sniffing
Q13.	Which of the following is an Object Oriented protocol?
Option A:	ModBus
Option B:	KNX
Option C:	BACNet
Option D:	IEEE 802.15.4
Q14.	Core Network in "ETSI architecture" does not perform which of the following function:
Option A:	IP connectivity & Roaming
Option B:	Service and Network control
Option C:	Interconnection with other networks
Option D:	abstracts all the possible communication mechanisms used by the relevant Devices in an actual system in order to transfer information to the digital world components or other Devices.
Q15.	IoT Devices performs which of the following functions:
Option A:	sensing, actuation, monitoring, control
Option B:	handles communication for IoT system
Option C:	provides various functions to govern IoT system
Option D:	secures IoT system
Q16.	Which of the following sub-model of IoT Reference Model consists of the identification of the endpoints of interactions, traffic patterns (e.g. unicast vs. multicast).
Option A:	IoT Domain Model
Option B:	IoT Information Model
Option C:	The Communication Model
Option D:	IoT Functional Model
Q17.	Smart inventory management for retail uses which of the following?
Option A:	RFID tags
Option B:	PIR Sensor
Option C:	Ultrasonic sensor
Option D:	LDR
Q18.	Which of the following is web protocol?
Option A:	TCP/IP
Option B:	HTTP
Option C:	BACNet
Option D:	Zigbee

Q19.	Which of the following communication model use queues?
Option A:	Request-Response
Option B:	Publish-Subscribe
Option C:	Push-Pull
Option D:	Exclusive pair
Q20.	IEEE 802.15.4 standard focusses on _____
Option A:	IP connectivity & Roaming
Option B:	Wide Area Network
Option C:	LR-WPAN (Low-Rate Wireless Personal Area Network)
Option D:	Data Transmission