

associated with data?

a) Internetb) Cloudc) Automatad) Network

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Narula Institute of Technology An Autonomous Institute under MAKAUT 2024

SPECIAL SUPPLEMENTARY EXAMINATION 2024 EC702C - INTERNET OF THINGS (IOT)

TIME ALLOTTED: 3Hours FULL MARKS: 70

Instructions to the candidate:

Figures to the right indicate full marks.

Draw neat sketches and diagram wherever is necessary.

Candidates are required to give their answers in their own words as far as practicable

Group A (Multiple Choice Type Questions) Answer any ten from the following, choosing the correct alternative of each question: 10×1=10 1.i) Identify the language preferred for IoT analytics. (1) CO1 a) Python b) HTML c) PHP d) C++ 1.ii) Which of the following is false about the MANET IoT network? (1) CO4 BL3 a) It is a self-configuring network b) It has a low data rate c) It doesn't have any encryption d) Power is readily available for complex security 1.iii) Which of the following is false about IoT devices? CO3 BL₂ (1) a) IoT devices use the internet for collecting and sharing data b) IoT devices need microcontrollers c) IoT devices use wireless technology d) IoT devices are completely safe 1.iv) How many numbers of the element in the open IoT architecture? CO₄ BL₂ (1) a) Four elements b) Five elements c) Six elements d) Seven elements 1.v) Which of the following is the way in which an IoT device is BL₁ (1) CO₃

1.vi) What is the full form of IoT? a) Internet of Technology b) Incorporate of Things c) Internet of Things d) Incorporate of Technology	(1)	CO1	BL1
 1.vii) Which of the following is not an application of IoT? a) BMP280 b) Smart home c) Smart city d) Self-driven cars 	(1)	CO4	BL2
 1.viii) Which of the following is not an IoT device? a) Table b) Laptop c) Arduino d) Tablet 	(1)	CO1	BL1
1.ix) When was the actual term "Internet of Things" coined? a) 1998 b) 1999 c) 2000 d) 2002	(1)	CO1	BL1
 1.x) What is the full form of IIOT? a) Index Internet of Things b) Incorporate Internet of Things c) Industrial Internet of Things d) Intense Internet of Things 	(1)	CO4	BL1
1.xi) Which of the following IoT networks has a very short range?a) Short Networkb) LPWANc) SigFoxd) Short-range Wireless Network	(1)	CO2	BL1
 1.xii) Which of the following is not a property of debugging environment in IoT devices? a) Start and stop the program execution b) Observe data at stop points c) Non-intrusive in terms of performance d) Should not act like a real system 	(1)	CO1	BL2
Group B (Short Answer Type Questions) (Answer any three of the following) 3x5=15 2. What are the different IoT connectivity components and structure.	(5)	CO2	BL3
Explain with a neat diagram the Architecture of a sensor cloud platform	(5)	CO3	BL3

4. Explain the role of Python in IoT.	(5)	CO3	BL3				
Describe the roles of YANG and transAPI modules in device management.	(5)	CO3	BL2				
6. Explain IoT Smart X Applications?	(5)	CO4	BL4				
Group C (Long Answer Type Questions) (Answer any three of the following) 3x15=45							
7a. What is the importance of IOT networking components	(5)	CO1	BL3				
7b. Differentiate between IoT proxy and IoT gateway	(5)	CO2	BL3				
7c. Describe with example which devices are called IoT devices.	(5)	CO1	BL2				
8a. What is Internet of Things (IoT)?	(5)	CO1	BL1				
8b. What are components required to design IoT?	(5)	CO2	BL3				
8c. What is requirement of IoT Protocol Standardization?	(5)	CO4	BL3				
9a. Explain the Bluetooth protocol stack	(5)	CO3	BL2				
9b. Explain the sensors in lot with examples of IoT application in smart city design.	(5)	CO3	BL5				
9c. IoT is dependent on other technologies. Justify	(5)	CO2	BL4				
10a. Discuss the type of data generated from a forest fire detection system.	(5)	CO3	BL4				
10b. Determine and demonstrate the IoT levels for designing healthCare monitoring system.	(10)	CO3	BL2				
11a. What are the differences between IPv4and IPv6	(5)	CO1	BL4				
11b. Why we need of IoT Security.	(5)	CO3	BL2				
11c. What are use of SPI and I2C interfaces on Raspberry Pi?	(5)	CO2	BL3				

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