Co	de l	No. : 20344 E	S	ub. Code	: AECS 61			(c)	7 elts
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023							3.	Which of the f digital card app	
		Sixth S			`			(a)	MQTT
		Computer Science			<i>r</i> e			(c)	HTTP's
	INTERNET OF THINGS						4.	Internet dom translated into	
(For those who joined in July 2020 only)								(a)	DNS
Time	e: Th	ree hours		Maximun	n : 75 marks			(b)	Domain I
		PART A — (10	× 1 = 1	10 marks)				` '	Router
		Answer ALI	ques	stions.				(d)	Domain i
	Choose the correct answer:					AV.	5.	Whic	h netwo
1.	What is IOT?							regis	tration, de
	(a)	(a) Network of physical objects embedded with sensors						(a) (c)	LSM X-GSN
	(b)	Network of virtual objects					6.	In M	2M, the co
	(c)	Network of object	s in tl	ne ring stru	ıcture			(a)	Point-to-
	(d)	Network of sensor	rs					(c)	Both (a)
7.	The	The relation between IOT and M2M is							PART
	(a)	(a) M2M is a part of IOT					Answer ALL que		
	(b) IOT is a part of M2M					Each answer			
	(c)	Both are same					11.	(a)	Explain
-	(d)	None of the above	9						
8.		ch of the followin	g lan	guage is p	referred for			(b)	What a
	(a)	R	(b)	C.			12.	(a)	List out
			(b)	S					pi.
9.	(c) Wh	Python at is the real exam	(d) ple of	All of th			•	(b)	State th
	IOI	?		8			13.	(a)	What ar
	(a)	Smart speaker	(b)	Televisio	on		10.	(4)	industry
	(c)	Mobile phone	(d)	Smart n	neters				
10.	they are machines that run the chef client software							(b)	What im sector?
	son	ware					14.	(a)	What do
	(a)	Server	(b)	Work st	ation				
	(c)	Nodes	(d)	Client				(b)	What is
		Pa	ge 3	Code No	o. : 20344 E				

Reg. No. :

(6 pages)

How many elements in the open IOT Architecture? (a) 5 elts 3 elts (b) (c) 7 elts (d) 6 elts ollowing protocols does the secure olication usage? (b) SPI XMPP ain name and host-name are IP address by — Name Databases nformation system ork does open IOT manage eployment of sensors? HTTP (b) GSN (d) ommunication type is — (b) Multipoint point None of the above and (b) Page 2 Code No.: 20344 E

PART B — $(5 \times 5 = 25 \text{ marks})$

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

Each answer should not exceed 250 words.

11. (a) Explain are the logical design of IOT.

Or

- (b) What are the protocols used for IOT communication?
- 12. (a) List out the models available in Raspberry pi.

Or

- (b) State the difference between Raspberry pi and Arduino.
- 13. (a) What are the benefits of IOT in healthcare industry?

Or

- (b) What impacts will have on IOT healthcare sector?
- 14. (a) What do you meant by smart city in IOT?

Or

(b) What is cloud component of IOT?

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15. (a) State the difference between IOT and M2M.

Or

(b) What is meant by smart city regarding IOT? PART C — $(5 \times 8 = 40 \text{ marks})$

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

Each answer should not exceed 600 words.

16. (a) Describe about the different components of IOT

Or

- (b) Explain the characteristics of IOT.
- 17. (a) Explain about Arduino.programming.

Or

- (b) What is virtualization? Explain its types.
- 18. (a) (i) What are the challenges of IOT in Agriculture?
 - (ii) What are the challenges of IOT in construction?

Or

- (b) (i) Explain the benefits of IOT.
 - (ii) What is Government funding in IOT.

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19. (a) How does IOT influence the development of smart cities?

Or

- (b) Explain the types of data that can be communicated between IOT devices.
- 20. (a) Explain smart education in IOT.

Or

(b) Explain the components and activities of M2M standards.

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