(FOR THE CANDIDATES ADMITTED
 DURING THE ACADEMIC YEAR 2020-2023 ONLY)

20UBC5S2

REG.NO.:

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : DECEMBER-2022

COURSE NAME : B.C.A　　　　　　　　　**MAXIMUM MARKS: 50**
SEMESTER:V　　　　　　　　　　　　　**TIME : 2 HOURS**

INTERNET OF THINGS

SECTION – A　　　　**(10 X 1 = 10 MARKS)**
ANSWER ALL OF THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS.　　[K1]

1. The number of elements in the open IoT architecture is _____.
     a. 4　　　　　　　b. 5　　　　　　　c. 6　　　　　　　d. 7

2. An IoT network is a collection of _____ devices.
     a. signal　　b. machine to machine　　c. interconnected　　d. network to network

3. Which of the following is not an application of IoT?
     a. wearables　　　　b. smart grid　　　　c. Arduino　　　　d. smart city

4. Which of the following is not a fundamental component of an IoT system?
     a. sensors　　　b. connectivity　　　c. user interface　　　d. transformer

5. Which of the following is used to capture data in IoT?
     a. sensors　　　b. Actuators　　　c. microprocessors　　d. microcontrollers

ANSWER THE FOLLOWING IN ONE OR TWO SENTENCES. [K2]

6. Name the fundamental components of IoT.
7. Give any two disadvantages of IoT.
8.   Name any two mostly used IoT protocols.
9.   List any two features of Raspberry Pi.
10.   What is replication?

SECTION – B　　　　**(5 X 8 = 40 MARKS)**
ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS.

11. Explain the physical and logical design of IoT.　　　　　　　　　[K4]

12. Classify and explain the IoT enabled technologies.　　　　　　　[K4]

13. Analyze the IoT architecture in detail.　　　　　　　　　　　　[K4]

14. Examine the IoT reference model.　　　　　　　　　　　　　　[K4]

15. Categorize and explain IoT protocols.　　　　　　　　　　　　[K4]

16. Examine building IoT with Raspberry Pi.　　　　　　　　　　　[K4]

17. Analyze the Case Study: Home Automation using IoT.　　　　　[K4]

18. Take part in the Case Study: Usage of IoT in Agriculture.　　　[K4]

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ETHICAL PAPER