Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd.u/s 3of UGC Act 1956, Category A by MHRD [now MoE]
Re-accredited with an A++ Grade by NAAC CGPA 3.65/4, Category I by UGC
Coimbatore-641043, Tamil Nadu, India

Continuous Internal Assessment I – February-2025
Semester VI

Class : III UG **Time : 2 Hours**
Major : Computer Science **Max. Marks: 60**

21BCSC29 -Introduction to IoT

Course Outcomes:

1. Understand the basic ideas of IoT
2. Learn the functional design of the IoT based devices
3. Design and implement an IoT device for a given problem domain
4. Understand the areas in which IoTs can be designed
5. Master the basics of IoT design methodologies

Part A **6 x 1 =6**
Choose the Correct Answer

1 . IoT devices are connected using_____. CO1K1

a) Wires only b) Wireless networks c) USB cables d) None of the above

2 . What does IoT stand for? CO1K1

a) Internet of Things b) Internet of Technology

c) Interface of Things d) Integration of Technology

3 . Which of these sensors is used in IoT systems for detecting motion or movement? CO2K2

a) Humidity sensor b)Pressure sensor c) GPS sensor d) Motion sensor

4 . Which sensor is used to monitor water levels in rivers for flood detection? CO2K6

a) Temperature sensor b) Humidity sensor c) Water level sensor d) Motion sensor

5. What is the first step in IoT design methodology? CO3K1

a) Process specification b) Purpose and requirements specification

b) C) Domain model specification d)Testing

6. In IoT design, the process specification focuses on _____. CO3K1

a)The detailed steps and methods for data processing b) The hardware design

c) The types of communication models used d)How to develop applications

Part B **3 x 6 = 18**

Answer ALL questions

The answer should not exceed 400 words or two pages

7. a. Explain about Physical and Logical Design of IoT CO1K2

(or)

7. b. Describe how cloud computing contributes to the functioning of IoT. CO1K3

8. a. Discuss about smart lighting. CO2K4

(or)

8 .b. Describe how smart parking applications enhance urban living and safety. CO2K3

9. a. Discuss about purpose and requirements of IoT design. CO3K4

(or)

9 .b. Explain about process specification. CO3K2

Part C **3 x 12 = 36**

Answer ALL questions

The answer should not exceed 800 words or four pages

10. a. Explain about Communication models.
CO1K2

(or)

10. b. Explain about IoT enabled technologies CO1K2

11 .a. Explain about Home Automation System with circuit diagram and code CO2K6

(or)

11. b. Explain any two IoT applications in smart cities. CO2K4

12 .a. Explain the IoT design methodology. CO3K4

(or)

12 .b. Explain briefly about Domain model specification. CO3K2

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Staff in charge: Dr.M.Krishnaveni

Ms.N.Buvaneshwari

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