PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Sixth Semester)

Branch – COMPUTER TECHNOLOGY

INTERNET OF THINGS

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1. When was the actual term "Internet of Things" coined?
    (i) 1998   (ii)1999   (iii) 2000   (iv) 2002

2. CoAP is specialized in _____ applications.
    (i) Internet   (ii) Device   (iii) Wireless   (iv) Wired

3. Which is the software or a programming language used for controlling of Arduino?
    (i) Assembly Language   (ii) C Languages
    (iii) JAVA   (iv) Any Language

4. Who is the primary developer of Hadoop ecosystem?
    (i) Microsoft   (ii) IBM
    (iii) Apache Software Foundation   (iv) Google

5. _____ is a blueprint that helps to design and deploy the industrial network
    infrastructure
    (i) CPwE   (ii)Smart Traffic Control
    (iii)Cisco IoT   (iv)IBM Watson

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6 a. Summarize the components of an IoT system.
                        OR
  b. Write short notes on Fog, Edge and Cloud in IoT.

7 a. Narrate about the constrained nodes.
                        OR
  b. Explain about the MQTT.

8 a. State the significance of embedded computing logic in IoT.
                        OR
  b. What are system on chip devices examples?

9 a. Compare the structured and unstructured in data.
                        OR
  b. Describe about the AWS for IOT.

10 a. How IoT is used in smart traffic control system?
                        OR
   b. Outline the power utility industry in IoT.

Cont...

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11 a. Explain simplified IOT Architecture.
                    OR
   b. Discuss about Enabling Technologies used in IoT.

12 a. Elucidate the security of IEEE 802.15.4g.
                    OR
   b. Explain about Application Transport Methods in IOT.

13 a. Illustrate the Raspberry Pi with python programming in detail.
                    OR
   b. Examine IoT system building blocks with a neat sketch.

14 a. Explain the python web application framework in detail.
                    OR
   b. Discuss about the Xively cloud for IoT.

15 a. Enumerate the GridBlocks Reference Model in IoT.
                    OR
   b. Classify the concepts of Smart Parking Architecture.

Z-Z-Z   END