



Roll No																			
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF MANAGEMENT

TEST 1

Winter Semester: 2021 - 22

Course Code: MGI245

Course Name: Internet and Related Technologies

Program & Sem: BBA E-commerce & Supply chain

Date: 26th April 2022

Time: 11.30 AM to 12:30 PM

Max Marks: 30

Weightage: 15%

Instructions:

(i) Read the all questions carefully and answer accordingly.

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries ONE mark.

(10Qx1M= 10M)

Q.1. ____ is gathered from a variety of sources including social network videos, digital images, sensors and sales transaction records. [1M] (C.O.No.1) [Knowledge]

- a. big data b. Artificial Intelligent c. Internet

Q.2. ____ communications is used for automated data transmission and measurement between mechanical or electronic devices. [1M] (C.O.No.1) [Knowledge]

- a. IoT devices b. Machine to Machine c. Devices and Gateway

Q.3. ____ uses radio waves in order to electronically track the tags attached to each physical object. [1M] (C.O.No.1) [Knowledge]

- a. RFID b. Sensors c. smart network

Q.4. What is IoT in telecommunication? [1M] (C.O.No.2) [Comprehensive]

Q.5. Difference between sensor and actuators. [1M] (C.O.No.1) [Knowledge]

Q6. ____ is an extension of cloud computing that consists of multiple *edge nodes* directly connected to physical devices. [1M] (C.O.No.1) [Knowledge]

- a. Edge b. Fog c. CISO

Q7. How do ZigBee devices communicate? [1M] (C.O.No.2) [Comprehensive]

Q8. Given an example for SaaS. [1M] (C.O.No.1) [Knowledge]

Q9. Define WSN. [1M] (C.O.No.2) [Comprehensive]

Q10. What is a technology stack? [1M] (C.O.No.1) [Knowledge]

Part B [Thought Provoking questions]

Answer both the Questions. Each question carries FIVE marks. (2Qx5M=10M)

Q.11. Illustrate different types of cloud computing used in IBM. [5M] (C.O.No.1) [Knowledge]

Q12. Explain the need of Infrastructure protocol in IoT. [5M] (C.O.No.2) [Comprehensive]

Part C [Problem Solving question]

Answer the Question. Question carries TEN marks. (1Qx10M=10M)

Q.13. Titoo & Co is running the business in hardware and owns a warehouse for the products. Over a period of time, the firms find difficult to track the products as a business transaction keep increasing. Suggest Titoo & Co how they can able to track the products inwards and outwards with help of IoT applications in line up with Industry 5.0. [10M] (C.O.No.2) [Comprehensive]



Roll No														
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF MANAGEMENT

TEST 2

Winter Semester: 2021 - 22

Course Code: MGI245

Course Name: Internet and Related Technologies

Program & Sem: BBA E-commerce & Supply chain

Date: 1st June 2022

Time: 11.30 AM to 12:30 PM

Max Marks: 30

Weightage: 15%

Instructions:

(i) *Read the all questions carefully and answer accordingly.*

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries One mark.

(10Qx1M= 10M)

1. ___provides various powerful features for building scalable, cost-effective, enterprise applications
a. CSP b. AWS c. IBM
(C.O.No.3) [Comprehensive]
2. _____ is the unique cloud provider that offers computing services to the organization.
a. VMware b. digital ocean c. Alibaba cloud
(C.O.No.3) [Comprehensive]
3. _____ is an open-source electronics platform based on easy-to-use hardware and software.
a. Aurdunio b. Raspberry Pi c. Omega 2
(C.O.No.3) [Comprehensive]
4. Mention two features of VMware. (C.O.No.3) Comprehensive]
5. What are the three parts in aurdunio programming language?
(C.O.No.3) [Comprehensive]
6. _____ is also known as Hardware as a Service (HaaS). It is a computing infrastructure managed over the internet.
a. IaaS b. SaaS c. PaaS
(C.O.No.4) [Comprehensive]
7. Define M2M. [1M] (C.O.No.4) [Comprehensive]

8. What are techniques involved in Machine learning? (C.O.No.4) [Comprehensive]
9. Define data acquisition. (C.O.No.4) [Comprehensive]
10. What is unstructured data? Given an example. (C.O.No.4) [Comprehensive]

Part B [Thought Provoking questions]

Answer both the Questions. Each question carries Five marks. (2Qx5M=10M)

11. Explain IoT board classification used in the organization with an example.
(C.O.No.3) [Comprehensive]
12. Mr. Sonu has been in the logistics industry for over ten years. He will continue to travel in order to meet his company needs and expand. It becomes increasingly difficult to capture business data in terms of items moving within and outside the organisation over time. He'd like your advice on how to gather data in the company and upload it to the cloud, as well as what kind of service he should use for his firm.
(C.O.No.4) [Comprehensive]

Part C [Problem Solving question]

Answer the Question. The Question carries Ten marks. (1Qx10M=10M)

13. Mr Arun running a fintech startup for period of three years. As business expanding, he could able to see that volume of data is keep increasing day by day. He is required a suggestion / help, how data acquiring can be done for her business for further process. How can the data acquiring system can be adopt by Mr. Arun in her business? Explain in IoT board used for collecting the data and supporting service for revert the data.
(C.O.No.4) [Comprehensive]



Roll No																			
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF MANAGEMENT

END TERM EXAMINATION

Winter Semester: 2021 - 22

Course Code: MGI 245

Course Name: Internet and Related Technologies

Program & Sem: BBA (ESCM) – IV Sem

Date: 1st July 2022

Time: 01.00 PM to 04.00 PM

Max Marks: 100

Weightage: 50%

Instructions:

(ii) Read the all questions carefully and answer accordingly.

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries THREE marks.

(10Qx 3M= 30M)

1. ___ technologies also include ___ to prevent___ attacks on networked devices and the applications. (C.O.No.1) [Knowledge]
a. DOS,tools, malware b. IoT, security tools, internet -based c. Cyber, data, cyberspace
2. IoT can also make use of ___ and ___ to aid in making ___ collecting processes easier and more dynamic. (C.O.No.1) [Knowledge]
a. Robot, Cobot, information b. AI, MI, data c. Machine, deep learning, facts
3. Mention IoT advancements that are backed by fast-growing technology. (C.O.No.2) [Knowledge]
4. Mr Anil wants to implement IoT into its business, suggest him what are the components required for business. (C.O.No.3) [Comprehensive]
5. How do communication protocols enable devices to send and receive data over the internet? (C.O.No.3) [Comprehensive]
6. Mr. Babu is a business owner who realized that as his company grew, he needed to simplify the process for his consumers. He requires advice on what IoT supporting technologies are required for his company's implementation. (C.O.No.3) [Comprehensive]
7. What does "Simplified IoT architecture" Mean in IoT? (C.O.No.4) [Comprehensive]
8. Data analysts exist at the intersection of ____, ____ and _____. They combine these fields in order to help businesses and organizations succeed. (C.O.No.2) [Knowledge]
a. Information technology, statistics, business b. technology, facts, company
c. information, figure, commercial.
9. Define Unstructured data with an example. (C.O.No.4) [Comprehensive]
10. Match the followings

Smart video pills	IoT Infrastructure
Agrotech	IoT in health care

[Comprehensive]

Part B [Thought Provoking Questions]**Answer all the Questions. Each question carries EIGHT marks.****(5Qx8M=40M)**

11. Ramanna is a farmer in the village of Haryana. He grows seasonal crops in his fields of 1-acre agricultural land. Over past 3 years, his crops don't produce good harvest due to which he is losing his profits and hope. He consults an agricultural expert to seek advice in this regard. The expert suggests him to implement Wireless Sensor Network (WSN) for timely and suitable information. What are the benefits of this technology to Ramanna? (C.O.No.3) [Comprehensive]
12. Walmart decides to establish a huge retail outlet in India to explore and tap the Indian Consumer market for more business profits. They intend to implement RFID Technology for better shopping experience of the consumers and faster cycle of shopping. How does this technology add value to business? (C.O.No.4) [Comprehensive]
13. Formerly known as Garden City is now dumped with waste all over the city. City Municipal corporation plans to introduce Smart waste management Technology for which they have integrated training sessions to their staff members. How do you think that this system will transform the current garbage issues in the city? (C.O.No.3) [Comprehensive]
14. XYZ bank is facing a serious cyber issue of their premium customer accounts being hacked very often and the funds are getting transferred to an unauthorized account using VPN network despite of having firewalls and secure networks. Hence, the bank manager has appointed a Data Analyst to offer solution to this situation. How do you think can data analyst help the bank in fraud detection? (C.O.No.4) [Comprehensive]
15. Desi Hospital is experienced a huge footfall of patients getting admitted due to COVID-19 in the last wave which led to shortage of beds, doctors, and other medical supplies. Therefore, they have prepared themselves with Smart Hospital Management System to embrace the next wave to ease the process of their healthcare. Discuss the importance of this technology in healthcare. (C.O.No.4) [Comprehensive]

Part C [Problem Solving Questions]**Answer both the Questions. Each question carries FIFTEEN marks.****(2Qx15M=30M)**

16. ITC Hotel Chain has started a new venture in the heart of the Bangalore City catering services of Hotel Industry exclusively for Celebrities from the Entertainment Industry especially when they visit the city for Shooting. They have implemented IoT in all their rooms so that their guests can enjoy the best of their experience while they stay. However, while performing the quality check before its open to the public, a sensor staff in a hotel room detects that the room

is too cold. The notification server and CPaaS mix assesses this information and sends a text message to a pre-defined, hotel employee assigned to the concerned rooms.

(C.O.No.5) [Application]

The scenario described above is entirely about Internet of Things. A few questions are then offered for debate.

a. Illustrate the merits of this technology add value to the business?

17. IoT holds the potential to cater to the needs of the increased urban population while making living more secure and comfortable. Referring to this, the IoT use cases for smart cities are limitless as it contributes to public safety, optimized traffic control and a healthier environment etc. which are the main essences of smart city developments. (C.O.No.5)

[Application]

The scenario described above is entirely about IoT application in Smart City Development. A few questions are then offered for debate.

a. How does this technology benefit in transforming the traditional city into a smart city?