

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

20UBC5E4

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**  
**END-OF-SEMESTER EXAMINATIONS : DECEMBER-2022**  
**COURSE NAME : B.C.A**  
**SEMESTER:V**  
**MAXIMUM MARKS: 70**  
**TIME : 3 HOURS**

**PART - III**  
**CURRENT TRENDS AND TECHNOLOGIES**

**SECTION - A** (10 X 1 = 10 MARKS)

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS.**

**(K1)**

1. Which of the following are the characteristics of IoT?  
a) Interconnectivity    b) Things-related services    c) Heterogeneity    d) All of these
2. In SAP SCM \_\_\_\_\_ component is used to generate the operational plans as per current and relevant data in the system.  
a) SC Collaboration    b) SC Planning    c) SC coordination    d) SC Execution
3. Transaction of data of the bank is a type of \_\_\_\_\_  
a) Unstructured data    b) Structured data    c) Text data    d) clustered data
4. Which of the following is characteristic of Processed Data?  
a) Data is not ready for analysis    b) All steps should be noted  
c) Hard to use for data analysis    d) None of the mentioned
5. Which technology is used in Bitcoin?  
a) Information Technology    b) Business Technology  
c) Block Chain Technology    d) Medical Technology

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. Define IoT.
7. How does SAP work?
8. What is a big data fundamental?
9. Define datafication.
10. What type of blockchain is Bitcoin?

**SECTION – B**

**(5 X 4 = 20 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Describe the Internet of Things Vision.

**(OR)**

- b) Clarify Smart Home, Smart Building and Infrastructure in detail.

**(CONTD.....2)**

12.a) Determine the key features of SAP SCM.

(OR)

b) Illustrate the SAP business application components

13.a) Discuss the evolution of data management.

(OR)

b) Examine the basics of distributed computing.

14. a) Explain the Big data and data science hype.

(OR)

b) Categorize the various types of data science process.

15. a) Illustrate the concept of asymmetric key encryption

(OR)

b) Determine the structure and operational aspects of Bitcoin blockchain .

**SECTION - C**

**(4 X 10 = 40 MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS**

**(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS (FROM Qn. No : 17 to 21) (K4 (Or) K5)**

16. Explain in detailed IoT Strategic Research and Innovation Directions.

17. Outline the terms of IoT smart X-Applications.

18. Illustrate the following

i) Multi-Tier Computing Architecture ii) SAP Kernel Architecture.

19. Write a note on the following i)Big Data Architecture ii) Types of Big Data

20. Summarize the concept of exploratory data analysis.

21. Elucidate the different types of block chain.

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