N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY 2024

B.COM B&I   **MAXIMUM MARKS: 50**

SEMESTER : IV   **TIME : 3 HOURS**

PART - III
INTRODUCTION TO INDUSTRY 4.0
SECTION – A   **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.   **(K1)**

1. Which country introduced the Industry 4.0 concept?

   a) United States of America   b) France

   c) Germany   d) Great Britain

2. Who is the inventor of Artificial Intelligence?

   a) Geoffrey Hinton   b) John McCarthy

   c) Andrew Ng   d) Jürgen Schmidhuber

3. Data in _____ bytes size is called big data

   a) Meta   b) Giga

   c) Tera   d) Peta

4. What is the java extension file used in IoT?

   a) .jar   b) .obj

   c) .cpp   d) .exe

5. In Industry 4.0 the employers expect students to have high level of _____.

   a) Competencies   b) Marks

   c) Qualifications   d) Grades

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   **(K2)**

6. What is Cyber security?

7. Which languages are commonly used for AI?

8. Big data- Define

9. What do you mean by IoT?

10. Write a short note on Curriculum 4.0.

ETHICAL PAPER

SECTION – B   **(5 X 3 = 15 MARKS)**

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

11.   a) List the needs for industry 4.0.

(OR)

b) Describe the design principles of industry 4.0.

12.   a) Describe the foundations of Artificial Intelligence.

(OR)

b) Discover the future prospects of Artificial Intelligence.

13.   a) Find the types and components of Big data.

(OR)

b) Show the skills required for big data analysis.

14.   a) Interpret the advantages of IOT.

(OR)

b) Compare the Virtual Reality and Augmented Reality.

15.   a) Discover the Artificial Intelligence jobs in 2030.

(OR)

b) Sketch the framework for aligning Education with Industry 4.0.

SECTION – C   **(5 X 5 = 25 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 /K5)

16.   a) Summarize the reasons for adopting Industry 4.0

(OR)

b) Classify the different concepts of Industry 4.0

17.   a) Analyze the Challenges of Artificial Intelligence.

(OR)

b) Discuss the topic of cybersecurity and its ethics.

18.   a) Evaluate the characteristics of Big Data.

(OR)

b) Formulate the applications of Big data.

19.   a) Develop the Architecture of IOT.

(OR)

b) Criticize the applications of IOT.

20.   a) Investigate the evolving trend in Education 4.0.

(OR)

b) Classify the top skills required for the jobs involving AI.

ETHICAL PAPER