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D5BBH2305 **Reg. No.....**

Name: .....

FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(Regular / Improvement / Supplementary)

BBA HONOURS

GBAH5B22T: PRODUCTION MANAGEMENT

Time: 3 Hours **Maximum Marks: 80**

Part A. Answer *all* the questions. Each question carries *one* mark.

Choose the correct answer.

1. Travel Chart method is used for designing _____ layouts.

   A) Product B) Process C) Fixed Position D) Project

2. The next order is placed when inventory reaches this level. What is this level called?

   A) EOQ B) ROP C) Safety Level D) Lead Time

3. In PPC, the process of checking the progress is called;

   A) Dispatching B) Expediting C) Scheduling D) Sequencing

4. The measurable quality characteristics in Quality Control are called:

   A) Attributes B) Variables C) Chance cause D) Suppliers' Risk

5. Which production system uses Assembly Line Balancing?

   A) Mass Production C) Job Shop Production

   B) Projects D) Batch Production

Fill in the Blanks.

6. The _____ production system was introduced by Henry Ford to produce the Model T car.
7. Conveyer is an example of _____.
8. Assigning specific jobs to each work center for the planning period is called _____.
9. In SQC, the tool used for process control is _____.
10. In Time Study, the performance rating of an average worker is considered as _____.

(10 × 1 = 10 Marks)

Part B. Answer any *eight* questions. Each question carries *two* marks.

11. List the objectives of operations management.
12. State the objectives of location analysis.
13. What do you mean by process capability?
14. Comment on standard time.

(PTO)

15. What do you mean by therblig symbols?
16. Brief the steps in purchase.
17. What do you mean by MRP?
18. Explain the terms variables and attributes.
19. Explain the need of maintenance in an organisation
20. Explain the concept of virtual manufacturing.

(8 × 2 = 16 Marks)

Part C. Answer any *six* questions. Each question carries *four* marks.

21. Explain the System View in operations.
22. Explain the importance of layout planning. How does that contribute to organisation's strategy?
23. Explain the principles of Materials Handling.
24. Elaborate the importance of PPC.
25. Discuss the relevance of ISO. Explain ISO 9000 series.
26. Describe the uses and procedure of Motion Study.
27. Explain the types of wastes in production houses.
28. Discuss (a) 3D Printing (b) Computer Integrated Manufacturing

(6 × 4 = 24 Marks)

Part D. Answer any *two* questions. Each carries *fifteen* marks.

29. Explain various types of Plant Layouts with diagrams. Which layout is suitable for a hospital?
30. Explain the concept of Statistical Quality Control. Explain the various tools of SQC.
31. A job has three work elements. There is 400 minutes of effective time on a day. The total number acceptable units produced on a day are 150 units. The allowances given are 10% of normal time. The data collected from 200 observations are given.

    Find standard time of each activity through Work Sampling.

Work element	Frequency of performance	Performance rating
1	70	80
2	80	120
3	50	110

(2 × 15 = 30 Marks)