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INDUSTRIAL ENGINEERING

Paper-ME-307N

Time Allowed: 3 Hours] [Maximum Marks: 75

Note: Attempt **five** questions in all. All questions carry equal marks.

- (a) How does 'Micro-Motion Study' help to optimize the manufacturing 1. time of a product?
 - (b) Discuss various principles of Motion economy. 7
- Write briefly on the following: 2.
 - (a) Time Study Allowances. 5
 - (b) Performance Rating. 5
 - (c) Work Sampling. 5

UNIT-II

Make a forecast for the year 2022 for the given Data by time series analysis: 3.

Year	Quarter	Sales (kg)
	1	186
	2	165
2019	3	175
	4	178
	1	198
	2	155
2020	TOPPERWord	160
	4	186
	1	215
	2	170
2021	3	175
	4	199

4. Write briefly on the following:

7,8

(a) Scheduling.

- (b) Types of Dispatching systems.
- 5. Write briefly on the following:

7,8

- (a) Classical Organization theory.
- (b) Line Organization.
- 6. (a) What is Inventory? Discuss ABC analysis.

7

- (b) A Company uses 12,500 castings per month. Each casting costs ₹600 and inventory carrying cost is 11% while ordering cost is ₹520 per order. Calculate EOQ, number of orders per year, order interval and reorder point if lead time is 6 days.
- 7. Write brieffy on the following:
 - (a) Importance of Value Engineering.

7

(b) JIT: concept and relevance.

8

8. Discuss the concept, importance and various steps involved in Time Management.

