MBSC-4.1D

Sl. No.

IV Semester M.B.A. Degree Examination, May/June - 2026
MANAGEMENT
Strategic Operations Management (Elective - D)
(CBCS SLM Scheme)

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

SECTION - A

Answer any Five questions. Each question carries Five marks. (5×5=25)

1. Write a short note on Job costing.
2. Define batch manufacturing with an examples.
3. Define loading and scheduling in production systems mention the examples.
4. Define Robotics in manufacturing.
5. Define Social Security in the organized sector.
6. State two challenges faced by SMEs in adopting Industry 4.0.
7. Discuss the various Training methods.

SECTION - B

Answer any Four questions. Each question carries Ten marks. (4×10=40)

8. Discuss the business challenges organizations face in the New Manufacturing Era.
9. Explain the objectives and benefits of production planning and control in detail.
10. Discuss the role of Trade Unions in promoting industrial harmony.
11. Describe the components of Industry 4.0 and their integration in operations.
12. Explain the concept of Mechatronics and its role in integrated manufacturing systems.
13. Discuss the role of Performance Appraisal in employee development and productivity improvement.

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SECTION - C

14. Case (Compulsory). **(1×15=15)**

Alpha Plastics, a small manufacturing company, wanted to adopt Industry 4.0 technologies such as IoT-enabled machines and AI-driven predictive maintenance. However, the company faced challenges due to high costs, lack of skilled workforce, and integration issues. After partnering with a technology provider and training employees, Alpha Plastics successfully implemented these technologies, improving machine uptime and reducing maintenance costs.

Questions:

a) Discuss challenges did Alpha Plastics face in adopting Industry 4.0?

b) How did technology partnerships and training benefit the company?
