

5 Aug 2023

Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

P-3795

[6025]-84

M.B.A.

404OSCM : SC-OSCM-06 : INDUSTRY 4.0

(2019 Pattern) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions carry equal marks.
- 2) All questions are compulsory.

Q1) Answer in short (Solve any 5)

[2 marks each]

- a) Describe Mechatronics.
- b) Development of Industry 4.0 in developed countries.
- c) Explain 4th Industrial Revolution.
- d) Comparison of Industry 4.0 factory and today's factory.
- e) Write about Network economy.
- f) Western approach for manufacturing excellence.
- g) Challenges for Industry 4.0.
- h) Enlist various Industrial Revolution.

Q2) Answer any two out of three.

[5 Marks Each]

- a) Explain the concept of Smart manufacturing.
- b) Comment on pillars of Industry 4.0.
- c) Comment on smart transportation.

Q3) a) What are Robots & Cobots? Explain with examples. [10]

OR

b) Discuss about Automated Guided vehicle with examples. [10]

Q4) a) Describe Big data analysis anti relevant examples. [10]

OR

b) Explain four types of Analysis & discuss each with examples. [10]

Q5) a) Write the challenges and opportunities for industry with respect to industry 4.0. [10]

OR

b) Describe Smart Industry Readiness Index (SIRI) with relevant examples. [10]



Aug 2022

Total No. of Questions : 5]

SEAT No. :

P6909

[Total No. of Pages : 2

[5860]-414

M.B.A.

OSCM - 404 : INDUSTRY 4.0

(2019 Pattern) (Semester - IV) (SC - OSCM - 06)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Each question has an internal choice.

Q1) Answer any Five out of 8 questions :

[2 each]

- a) Write about Japanese Vs Western approach for manufacturing excellence.
- b) List the developments of Industry 4.0 in developed countries.
- c) Write about Mechatronics.
- d) Write about business and society with respect to Industrial revolution.
- e) What is internet of things.
- f) What are drivers for Industry 4.0
- g) What are enablers for Industry 4.0
- h) Compare Industry 4.0 factory and Today's factory.

Q2) Answer Any Two :

[5 each]

- a) Discuss about collaborative platform and product life cycle Management in Industry 4.0.
- b) Describe about Reference Architectural Model Industries 4.0 (RAMI 4.0)
- c) What is Big data analytics and its significance of V's of big data.

P.T.O.

Q3) Answer Any One :

[10]

- a) Discuss about virtual Reality and Mixed Reality with examples.
- b) Discuss about strategies for competing in an Industry 4.0 era.

Q4) a) Explain cloud computing for Industry 4.0

[10]

OR

- b) Discuss about automated guided vehicles.

[10]

Q5) a) How leadership is impacting Industry 4.0 in the current scenario

[10]

OR

- b) Explain about smart Industry Readiness Index with examples.

[10]



Total No. of Questions : 5]

SEAT No. :

PB4765

[6201]-414

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S.Y.M.B.A.

404-OSCM-SC-OSCM-06 : INDUSTRY 4.0

(Revised 2019 Pattern) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Attempt all questions.
- 2) Draw neat, labelled diagram wherever necessary.
- 3) Assume suitable data if necessary.

Q1) Answer any 5 out of 7.

[5×2=10]

- a) Define Internet of Things(IoT).
- b) What is Automated Guided Vehicle (AGV)?
- c) Enlist any 2 challenges which can be faced by Industry 4.0?
- d) Define Horizontal & Vertical Integration?
- e) Mention any 2 drivers & 2 enablers for Industry 4.0?
- f) What do you mean by the term "Manufacturing Excellence"?
- g) Define "Network Economy".

Q2) Answer Any 2 out of 3.

[2×5=10]

- a) Explain in brief about Software Defined Network(SDN).
- b) Differentiate between Robots & Cobots.
- c) List & explain any 5 strategies for competing in an Industry 4.0 era.

Q3) Answer any 1 out of 2.

[1×10=10]

- a) Explain in detail about digitalization and the networked economy with example.

OR

- b) What do you mean by Big Data Analytics (BDA) and significance of V's of big data. Explain with example.

P.T.O.

Q4) Answer any 1 out of 2.

[1×10=10]

- a) Explain in detail: Artificial Intelligence and Cloud Computing Basics.

OR

- b) Briefly Explain Smart Industry Readiness Index (SIRI)

Q5) Answer any 1 out of 2.

[1×10=10]

- a) Illustrate with examples the complete ecosystem comprising of Industry 4.0 and adaptiveness of Society 5.0.

OR

- b) What is the future of work system and skill requirements in India. Explain with the help of example.

