

Total No. of Questions : 5]

PD2734

SEAT No. :

[Total No. of Pages : 2

[6430]-84

S.Y. M.B.A.

404 - SC - OSCM - 06 : INDUSTRY 4.0

(2019 Pattern) (Revised) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *All questions are compulsory as mentioned.*
- 2) *Assume suitable data if necessary.*
- 3) *Draw neat, labelled diagram wherever necessary.*

Q1) Answer any 05 out of 08.

[5×2=10]

- a) Define Mechatronics
- b) Present a Chart on developments in Industrial revolution
- c) Distinguish between Sensing and Actuation
- d) What is Automated Guided Vehicle (AGV)?
- e) Explain in brief Mobile Computing
- f) Distinguish between Internet of Things (IoT) & Industrial Internet of Things (IIoT)
- g) Describe the term: Smart Logistics
- h) Define Horizontal and Vertical Integration

Q2) Answer Any 02 out of 05.

[2×5=10]

- a) Distinguish between Japanese and Western approaches towards achieving manufacturing excellence.
- b) Explain in brief the pillars of Industry 4.0
- c) Compelling Forces and Challenges for Industry 4.0
- d) Features and uniqueness of the Cyber-physical Systems
- e) Overview of Software Defined Network (SDN)

P.T.O.

Q3) Answer Any 01 out of 02.

[1×10=10]

- a) Discuss in detail the various evolution of Industrialization and indicate the path towards Industry 4.0

OR

- b) Discuss the four types of Analytics: Descriptive, Diagnostics, Predictive, and Prescriptive Analytics.

Q4) Answer Any 01 out of 02.

[1×10=10]

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

OR

- b) Illustrate with Examples the Ecosystem comprising of Industry 4.0

Q5) Answer Any 01 out of 02.

[1×10=10]

- a) Evaluate the concept of Smart Industry Readiness Index (SIRI) in context of Challenges and Preparedness of Industry 4.0

OR

- b) Determine the case uses of Industry 4.0 for Healthcare, Automobile, Banking and Power Industry.



Total No. of Questions : 5]

PB4765

[6201]-414

S.Y.M.B.A.

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

(Revised 2019 Pattern) (Semester - IV)

SEAT No. : PUNE-02

[Total No. of Pages : 2]

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.

