

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.

