

Total No. of Questions : 4]

PB382

SEAT No. :

[Total No. of Pages : 1

[6270]-194

B.E. (AI&DS) (Insem)

DISTRIBUTED COMPUTING

(2019 Pattern) (Semester - VIII) (417531)

Time : 1 Hour

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2 and Q3 or Q4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of Calculator is allowed.

- Q1)** a) Explain issues related to data storage and retrieval in AI & DS. [5]
b) List & Explain various Characteristics of Distributed Systems. [5]
c) Explain integrating AI and data science in Predictive Maintenance and its applications. [5]

OR

- Q2)** a) Outline the goals of distributed systems. [5]
b) Discuss the use of AI & DS in Healthcare and Medical Diagnostics. [4]
c) Write Note on :
i) Distributing computational tasks.
ii) Communication overhead in Distributed Computing.

- Q3)** a) Differentiate between Hadoop Distributed File System (HDFS) and Google File System (GFS). [5]
b) Explain Cluster Computing. [4]
c) Write note on Eager Replication & Lazy Replication. [6]

OR

- Q4)** a) Explain Consistency Model & its Types. [6]
b) Differentiate between AWS & Microsoft Azure. [5]
c) Explain Message Brokers and Stream Processing in Distributed Computing. [4]

