

# SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 4]

SEAT No. :

PD273

[Total No. of Pages : 1

[6411]-48

**B.E. (Computer Engineering) (Insem)**

**BUSINESS INTELLIGENCE**

**(2019 Pattern) (Semester-VIII) (410253C) (Elective-VI)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Assume suitable data, if necessary.*

- Q1)** a) Discuss the phases in the development of a decision support system. [5]  
b) Explain the main components of a business intelligence system with a suitable diagram. [5]  
c) What are several reasons for implementing a data warehouse separately from the databases supporting OLTP applications in an enterprise? [5]

OR

- Q2)** a) Discuss the ethical problems that should not be overlooked during the adoption of business intelligence methodologies. [5]  
b) Discuss the Cycle of a business intelligence analysis. [5]  
c) Discuss the different types of decisions. [5]

- Q3)** a) Differences between OLTP and OLAP systems. [5]  
b) Explain the dice or rotation operation in OLAP. [5]  
c) Explain the Fact Constellation Schema with a diagram. [5]

OR

- Q4)** a) What is a digital dashboard? What are its types? Discuss anyone with an example. [5]  
b) What is the Star Schema? Explain the advantages and disadvantages of it. [5]  
c) Discuss the three main functions of ETL tools. [5]

