



MACHAKOS UNIVERSITY

University Examinations for 2021/2022

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (COMPUTER SCIENCE)

SCO 419 ERP SYSTEMS

DATE: 9/12/2021

TIME: 11.00-1.00 PM

Instructions: Answer Question ONE and any other TWO Questions.

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Define the following terms
 - i) ERP (1 mark)
 - ii) OLAP (1 mark)
 - iii) Data warehouse (1 mark)
- b) Explain FOUR challenges faced by Re-engineering efforts (4 marks)
- c) Discuss FOUR benefits of ERP systems (4 marks)
- d) Outline THREE different types of ERP systems in the market (3 marks)
- e) Explore FOUR reasons for the explosive growth of the ERP market (4 marks)
- f) i) During ERP implementation, various activities take place. Name and describe them. (5 marks)
- ii) Discuss THREE benefits achieved by data migration. (3 marks)
- iii) Describe FOUR success factors that you can attribute to ERP implementation in organizations (4 marks)

QUESTION TWO (20 MARKS)

- a) Define the word data mining (2 marks)
- b) Discuss in detail any TWO ERP modules (6 marks)
- c) Outline the SEVEN steps used to successfully perform Business process Re-engineering (BPR) (7 marks)
- d)
 - i) When advancing your career in SAP, you can move into different roles. Name THREE roles you can take as SAP specialist. (3 marks)
 - ii) Which is the programming language used in SAP for developing business application support and development (2 marks)

QUESTION THREE (20 MARKS)

- a) Outline THREE different types of variables used in SAP ERP system (3 marks)
- b) Discuss THREE factors that are critical for the success of the ERP implementation? (6 marks)
- c) What are the direct benefits of ERP systems? (3 marks)
- d)
 - (i) Briefly describe SAP (3 marks)
 - (ii) Discuss THREE different modules of SAP (3 marks)
 - (iii) What is a transaction in SAP terminology? (2 marks)

QUESTION FOUR (20 MARKS)

- a) Outline THREE modules found in SAP (3 marks)
- b) Discuss THREE points to look after in order to ensure security of SAP Application (6 marks)
- c)
 - Discuss THREE Benefits of a Data Warehouse (3 marks)
 - (ii) Outline TWO disadvantages of OLAP system (2 marks)
- d) Outline WHAT happens in the Project Planning Phase of any ERP system (6 marks)

QUESTION FIVE (20 MARKS)

- a) Outline TWO types of OLAP systems (2 marks)
- b) Outline TWO differences between conventional applications and ERP packages. (4 marks)
- c) Discuss THREE related technologies of ERP? (6 marks)
- d) With an aid of a diagram describe the EIGHT Stages of SAP Project Lifecycle. (8 marks)