PROGRAM : BACHELOR OF ENGINEERING TECHNOLOGY [**BEng Tech**] IN ELECTRICAL ENGINEERING. B6ELEQ & B6ELXQ

MODULE : INFORMATION TECHNOLOGY 3B

CODE : TMGELB3

DATE : WINTER/SUMMER **MAIN** EXAMINATION NOVEMBER 2019

DURATION : 3 HOURS

CALCULATION CRITERIA : 40 [SEMESTER]: 60 [EXAM]

NQF : 7

TOTAL MARKS : 100

EXAMINER : MR N.S MADONSELA

MODERATOR : DR THAKUR

NUMBER OF PAGES : 3 PAGES

INSTRUCTIONS : QUESTION PAPERS MUST BE HANDED IN.

INSTRUCTIONS TO CANDIDATES:

1.   100 MARKS = 100%.
2.   ATTEMPT ALL QUESTIONS.
3.   ANSWER QUESTIONS CONSIDERING THE MARK ALLOCATION.
4.   QUESTIONS MAY NOT BE ANSWERED IN ANY ORDER AND **ALL PARTS OF A QUESTION MUST BE KEPT TOGETHER**.
5.   ALL DIAGRAMS AND SKETCHES MUST BE DRAWN NEATLY AND LABELED CLEARLY.
6.   ALL WORK DONE IN PENCIL EXCEPT DIAGRAMS AND SKETCHES WILL BE CONSIDERED AS ROUGH WORK.
7.   **MARKS WILL BE DEDUCTED** FOR WORK WHICH IS POORLY PRESENTED.
8.   ANSWER ALL THE QUESTIONS.

QUESTION 1

1.1   Compile the digital technologies and channels being leveraged by business, industries, and nations.   (12)

1.2   Defend how enterprise architecture (EA) and information management play leading role in guiding IT growth and sustaining long-term performance.   (10)

1.3   What judgement would you make about the operational benefits and competitive advantages of business intelligence (BI)?   (8)

1.4   Construct a model that depicts the production and operations management (POM) systems process and transform inputs and outputs.   (14)

1.5   Suppose you could sensitize managers about the importance of strategic planning, how would you express the key elements of strategic plan?   (6)

[50 MARKS]

QUESTION 2

2.1   History has shown that one of the factors that make companies targets for fraud is lack of internal control. How would you use what you learned, to design solid internal controls within an organisation?   (15)

2.2   Construct a table which illustrates the major enterprise systems and their functions.
                                                                              (15)

2.3   An effective strategic planning process is critical to an enterprise's long-term success and health. What would you cite to defend a solid IT strategic planning process?   (10)

2.4   Today, most companies are moving towards digital transformation. As a result, there is a need for IT-business alignment. Justify how IT-business alignment can be improved.   (10)

[50 MARKS]
[TOTAL MARKS 100]