UNIVERSITY COLLEGE
TATI

UNIVERSITY COLLEGE TATI (UC TATI)

FINAL EXAMINATION QUESTION BOOKLET

COURSE CODE	: BCS 3743
COURSE	: BUSINESS DECISION MAKING
SEMESTER/SESSION	: 2 - 2024/2025
DURATION	: 3 HOURS

Instructions:

1. This booklet contains 5 questions. Answer **ALL** questions.
2. All answers should be written in answer booklet.
3. Write legibly and draw sketches wherever required.
4. If in doubt, raise your hand and ask the invigilator.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

THIS BOOKLET CONTAINS <u>6</u> PRINTED PAGES INCLUDING COVER PAGE

BUSINESS DECISION MAKING (BCS 3743)

QUESTION 1

a) Compare between descriptive statistic and inferential statistics. (4 marks)

b) A researcher collected data on the monthly sales (in units) of a product over a one-year period. The data is as follows:

MONTH	SALES
JANUARY	50
FEBRUARY	40
MARCH	55
APRIL	60
MAY	65
JUNE	70
JULY	75
AUGUST	80
SEPTEMBER	85
OCTOBER	90
NOVEMBER	95
DECEMBER	100

   i. Sketch a line graph to represent the monthly sales data.

   (4 marks)

   ii. Justify the overall trend in the sales data. (2 marks)

   iii. Predict the sales for the following January if the trend continues. (2 marks)

QUESTION 2

a) Give **THREE (3)** methods of measuring central tendency. (3 marks)

b) The following data set representing the number of books read by a group of students in a month:

9, 7, 5, 6, 9, 3, 8, 6, 5, 4, 7, 5, 6, 8, 5

   i) Calculate mode, median, mean and standard deviation. (8 marks)

   ii) According to the value of mean, mode and median in question (i), illustrate a shape of distribution with a curve design. (4 marks)

c) Present **FOUR (4)** objectives of measuring dispersion. (4 marks)

d) Outline **FIVE (5)** characteristics of a good measure of dispersion. (5 marks)

QUESTION 3

a)   Give **TWO (2)** types of data.   (2 marks)

b)   List **FOUR (4)** different ways that numerical variable data can be presented graphically.   (4 marks)

c)   Present **THREE (3)** objectives of using frequency distribution table.   (3 marks)

d)   The data below shows the heights (to the nearest cm) of a group of Form 5 pupils.

153	168	163	157
158	161	165	162
145	150	158	156
166	163	152	155
158	173	148	164

   i)   Find range of the data.   (2 marks)

   ii)   Determine the class intervals for the data, if the number of classes required is 6.   (2 marks)

   iii)   Construct a frequency distribution table based on the information in (i) and complete the frequency table with the midpoint, cumulative frequency, relative frequency and percent.   (10 marks)

   iv)   According to the data in frequency distribution table, sketch a histogram.   (5 marks)

QUESTION 4

a)   Discuss briefly the types of Information Systems below.

       i.   CRM   (2 marks)

      ii.   TPS   (2 marks)

      iii.   ERP   (2 marks)

      iv.   DSS   (2 marks)

      v.   ESS.   (2 marks)

b)   Describe **THREE (3)** main categories of Information Systems serve in different organizational levels.   (6 marks)

c)   List **THREE (3)** main purposes of HR systems, along with a system name example.   (4 marks)

d)   Explain about ERP and the benefits of using it in an enterprise.   (5 marks)

QUESTION 5

a)   Find **FOUR (4)** reasons why need to control inventory.   (4 marks)

b)   Present **THREE (3)** disadvantages of MRP   (3 marks)

c)   A small electronics manufacturer, Techmo Sdn.Bhd. wants to optimize its inventory management by determining the Economic Order Quantity (EOQ) for one of its key components. The following information is provided:

- Annual demand for the component: 10,000 units
- Ordering cost per order: RM50
- Holding cost per unit per year: RM2

   i)   Calculate the EOQ for Techmo Sdn.Bhd. using the given data.   (2 marks)

   ii)   Explain the significance of the EOQ in inventory management.   (2 marks)

-------------------------------------- **End of question** --------------------------------------