Private & Confidential

FACULTY OF BUSINESS

FINAL EXAMINATION

Student ID (in Figures) :	
Student ID (in Words) :	

Course Code & Name : **STA2114 Business Statistics**
Semester & Year : May – August 2020
Lecturer/Examiner : Rosnah Mohamad Noor
Duration : 3 Hours

<u>INSTRUCTIONS TO CANDIDATES</u>

1. **This question paper consists of 2 parts:**
   PART A (30 marks) : THIRTY (30) multiple choice questions. Answers are to be written in the Multiple Choice Answer Sheet provided.
   PART B (70 marks) : FOUR (5) problem solving questions. Answers are to be written in the Answer Booklet provided.
2. **Candidates are not allowed to bring any unauthorized materials except writing equipment into the Examination Hall. Electronic dictionaries are strictly prohibited.**
3. **This question paper must be submitted along with all used and/or unused rough papers and/or graph paper (if any). Candidates are NOT allowed to take any examination materials out of the examination hall.**
4. **Only ballpoint pens are allowed to be used in answering the questions, with the exception of multiple choice questions, where 2B pencils are to be used.**

<u>WARNING:</u> The University Examination Board (UEB) of BERJAYA University College regards cheating as a most serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from BERJAYA University College.

Total Number of pages = 7 (Including the cover page)

PART B : **PROBLEM SOLVING QUESTIONS (70 MARKS)**
INSTRUCTION(S) : Answer all **FIVE (5)** questions. Write your answers in the Answer Booklet(s)

Question 1

a) Explain **TWO (2)** differences between primary and secondary data. (4 marks)

b) Primary data is more suitable to use. Explain **FIVE (5)** advantages of the primary data. (10 marks)

c) Describe **THREE (3)** disadvantages of secondary data. (6 marks)

(Total:20 marks)

Question 2

Define each of the following terms:

a) Simple random sampling (2 marks)

b) Judgemental sampling (2 marks)

c) Snowball sampling (3 marks)

d) Quota sampling (3 marks)

(Total: 10 marks)

Question 3

A company that sells mail –order hand phones need to know the typical weekly sales in order to plan for inventory. The company select 10 weeks at random from the past years weekly sale record and obtains the data (in RM’000) as shown below.

135	118	122	122	131	122	125	127	128	123

Calculate the following:

a) Mean (2 marks)

b) Mode (2 marks)

c) Median (2 marks)

d) Inter quartile (4 marks)

e) Variance (3 marks)

f) Standard deviation (2 marks)

(Total: 15 marks)

Question 4

The following frequency distribution shows the monthly consumption of electricity of 68 consumers of a locality.

X	65 – 85	85 – 105	105 – 125	125 – 145	145 – 165	165 – 185	185 – 205
y	4	5	13	20	14	8	4

X= Monthly Consumption
Y= Number of Consumers

Calculate the following:

a) Mean (2 marks)

b) Median (2 marks)

c) Mode (3 marks)

d) Interquartile (4 marks)

e) Standard deviation (4 marks)

(Total: 15 marks)

Question 5

Table below shows the test scores for Mathematics and Finance tests for seven students in a faculty. Compute the value of the correlation coefficient.

Mathematics = x	62	65	72	80	85	86	90
Finance= *y*	40	55	60	77	80	82	88

Calculate the coefficient of correlation (r). (10 marks)

END OF EXAM PAPER