



BERJAYA BUSINESS SCHOOL

FINAL EXAMINATION

Student ID (in Figures) :

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Student ID (in Words) :

Course Code & Name : **STA2114 Business Statistics**
 Trimester & Year : May-August 2019
 Lecturer/Examiner : Dr Smitha Geetha
 Duration : 3 Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of 2 parts:
 - PART A (30 marks) : THIRTY (30) multiple choice questions. Answers are to be shaded in the Multiple Choice Answer Sheet provided.**
 - PART B (70 marks) : FOUR (4) problem-solving questions. Answers are to be written in the Answer Booklet provided.**
- Candidates are not allowed to bring any unauthorized materials except writing equipment into the Examination Hall. Electronic dictionaries are strictly prohibited.
- 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.
- 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.

WARNING: 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.

PART B : PROBLEM SOLVING QUESTIONS (70 MARKS)

INSTRUCTION(S) : Answer all **FOUR (4)** questions. Write your answers in the Answer Booklet(s) provided.

Question 1

Calculate the following by using the data given below

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	3	10	15	20	12	7	3

- a) Mean, median and mode. (9 marks)
- b) Quartile deviation, mean deviation from median and standard deviation. (9 marks)
- c) Coefficient of range. (2 marks)

[Total: 20marks]

Question 2

- a) Two unbiased dice are thrown, find the probability that
 - (i) Both the dice show the same number
 - (ii) One die shows five
 - (iii) First die shows five
 - (iv) The total of the numbers on the dice is eight
 - (v) Total of the numbers on the dice is greater than eight
 - (vi) A sum of ten

- b) Two coins are tossed, what is the probability of getting
 - (i) Both heads
 - (ii) One head
 - (iii) At least one head
 - (iv) No head

(6 marks)

(4 marks)

[Total: 10 marks]

Question 3

a) The weekly wages of 1000 workers are normally distributed around a mean of Rm70 and with a standard deviation of RM 5. Estimate the number of workers whose weekly wages will be

- (i) Between Rm 70 and Rm72
- (ii) Between Rm69 and Rm72
- (iii) More than Rm75
- (iv) Less than Rm 63
- (v) Estimate the lowest wages of the 100 highest paid workers.

(20 marks)

[Total: 20 marks]

Question 4

a) Compute Karl Pearson's coefficient of correlation from the following data using 44 and 26 respectively as the origin of X and Y. Also comment on the result oriented.

Price(Rm)	43	44	46	40	44	42	45	42	38	40	42	57
Demand(Rm)	29	31	19	18	19	27	27	29	41	30	26	10

(6 marks)

b) From the following data, obtain the two regression equations.

Sales	91	97	108	121	67	124	51	73	111	57
Purchases	71	75	69	97	70	91	39	61	80	47

(14 marks)

[Total: 20 marks]

END OF EXAM PAPER