



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 : January-April 2019
 Lecturer/Examiner : Dr Smitha Geetha
 Duration : 3 Hours

INSTRUCTIONS TO CANDIDATES

1. 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.
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.

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

a) Calculate Mean, Median and Mode for the following data.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	5	15	0	40	32	2

(12 marks)

b) Calculate the Range and the Coefficient of Range for the following values.

Size	5	8	10	12	25	30	38
Frequency	2	3	8	10	9	3	2

(4 marks)

c) Compute Standard Deviation for the values.

10	12	80	70	60	100	0	4
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(4 marks)

[Total: 20marks]

Question 2

a) Three unbiased coins are tossed, what is the probability of obtaining

- (i) All heads
- (ii) Two heads
- (iii) One head
- (iv) At least one head
- (v) At least two heads
- (vi) At the most one head

(6 marks)

b) A ball is drawn from a bag containing 4 white, 6 black and 5 green balls. Find the probability that a ball drawn is

- (i) White
- (ii) Green
- (iii) Black
- (iv) Not a green ball

(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. Also comment on the result oriented.

Price(Rm)	11	12	13	14	15	16	17	18	19	20
Demand(Rm)	30	29	29	25	24	24	24	21	18	15

(7marks)

b) A panel of two judges P and Q graded seven dramatic performances by independently awarding marks as follows:

Performance	1	2	3	4	5	6	7
Marks by P	46	42	44	40	43	41	45
Marks by Q	40	38	36	35	39	37	41

The eighth performance, for which judge Q could not attend, was awarded 37 marks by judge P. If judge Q has also been present, how many marks would be expected to have been awarded by him to the eighth performance?

(13 marks)

[Total: 20 marks]

END OF EXAM PAPER