

ALUPE UNIVERSITY

Bastion of Knowledge.

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OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF HOTEL AND HOSPITALITY MANAGEMENT

COURSE CODE:

BHM 213

COURSE TITLE:

BUSINESS STATISTICS

DATE: 21ST DECEMBER, 2018

TIME: 9AM – 12.00 NOON

INSTRUCTION TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

COURSE CODE: BHM 213

COURSE TITLE: BUSINESS STATISTICS

INSTRUCTIONS TO CANDIDATES

- Answer Question ONE and any other TWO questions
- Question ONE carries 30 marks
- Time allowed: 3 hours

QUESTION ONE

a) Discus the five types of sampling techniques that you can employ in data collection (10 Marks)

b) Distinguish between discrete and continuous data giving relevant example (5 Marks)

c) From the following information

Class 0-10 10-20 20-30 30-40 40-50 50-60 Frequency 6 8 17 14 13 7

Calculate;

i. Mean(3 Marks)ii. Mode(3 Marks)iii. Median(3 Marks)iv. variance(3 Marks)v. Standard deviation(3 Marks)

OUESTION TWO

- a) Discuss the various statistical methods giving relevant example (10 Marks)
- b) Distinguish between classification and tabulation citing their main objects (10 Marks)

QUESTION THREE

a) A firm invests £1600 on 1 January each year. On 31 December simple interest is credited at 15% but this interest is put in a separate account and does not itself earn any interest. Find the total amount standing to its credit on 31 December following its fifth payment of £ 1600.

(5 marks)

- b) An annuity will pay £ 10,000 for 5 years. What is its future value if the annual rate of interest is 12% (5 marks)
- c) Discus five uses of statistics and its relevance to management of a hotel establishment (10 Marks)

QUESTION FOUR

a) Discuss the various causes of depreciation (6 marks)

BHM 213



b) A company starts in business on 1 January 1999, the financial year end being 31 December. You are to show:

a. The plant account.

(5 marks)

b. The provision for depreciation account.

(5 marks)

c. The balance sheet extracts for each of the years 1999, 2000, 2001, 2002.

(4 marks)

The machinery bought was:

1999 1 January

1 plant costing £8,000

2000 1 July

2 plant costing £5,000 each

1 October

1 plant costing £6,000

2002 1 April

1 plant costing £2,000

Depreciation is at the rate of 10 per cent per annum, using the straight-line method, plant being depreciated for each proportion of a year.

QUESTION FIVE

a) Name two uses of regression.

(2marks)

b) Define the following terms as used in statistics i. Correlation co-efficient

(2marks)

ii. Positive correlation

(2marks)

iii. Negative correlation.

(2marks)

c) The data in the table below relates to weekly cost in £s to the age in months of ten machines of similar type in a manufacturing firm.

Age

5

15

30

30

30

50

50

60

390

Cost

190

240

10

250

300

20

310

335 300

300

350

Required:

a) Product moment correlation co-efficient between age and cost.

(8marks)

b) The co-efficient of determination. Interpret it.

(4marks)
