



# EDO UNIVERSITY IYAMHO



Faculty of Arts, Management and Social Sciences  
Department of Economics

<b>Title:</b>	First Semester Examination	<b>Session:</b>	2017/2018
<b>Course:</b>	Introductory Statistics 1	<b>Course Code:</b>	ECO 113
<b>Level:</b>	100 Level	<b>Duration:</b>	2 hour
<b>Instruction:</b>	Answer three questions		

1. (a) Find the mean, median and mode of the following weights in(Kg) of 100 students using a class interval of 3:

60	72	73	61	63	66	63	63	63	68
61	75	72	64	68	64	64	66	62	70
62	74	63	64	65	67	65	71	69	71
63	73	65	63	66	67	70	71	69	71
64	72	71	69	68	68	69	70	71	70
65	74	65	63	67	67	71	69	69	69
69	69	70	71	71	68	71	70	70	66
66	67	68	68	68	68	66	66	67	66
67	66	68	67	67	68	67	66	66	67
67	68	67	68	66	66	68	66	66	67

- (b) Given that 5 officers of Edo University are to be hosted in a meeting. (i) Determine the number of different sitting arrangements for the 5 of them (ii) Assume that only 2 of the principal officers were ask to represent the institution, determine the sitting arrangement this time.

- (c) Explain the following concepts (i) Independent Event (ii) Independent event (iii) Mutually Exclusive event

2. (a) Explain the meaning of the following concepts: (i) Descriptive Statistics (ii) Inferential Statistics

- (b) State and explain 8 sources of data collection

- (c) State and explain 8 importance of Statistics

3. (a) Find the Mean, Median and Mode of the distribution below:

Class Interval	Frequency	
125 -129	9	
130 – 134	12	
135 – 139	21	
140 – 144	30	
145 – 149	38	
150 – 154	20	
155 – 159	14	
160 - 164	6	

(b) Represent the frequency distribution in (a) above in a Pie Chart

(c) Construct and Tally a simple frequency table with the following numbers:  
30, 20, 25, 15, 60, 20, 20, 25, 26, 30, 30, 26, 15, 30, 14, 14, 40, 40, 40 40

4. (a) Find the variance and standard deviation of the following distribution below:

X	F	
132	9	
132	12	
137	21	
142	30	
147	38	
152	20	
157	14	

162	6	
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- (b) Represent the frequency distribution (a) above in a Bar Chart  
(c) Explain Conditional Probability

5. (a) A bag containing boxers has 10 red boxers, 6 white boxers and 4 blue boxers. Find the probability that the boxer drawn if not replaced is (i) red (ii) white (iii) blue in that order.
- (b) Given that there are 60 mangoes in a basket at random, 30 of them are unripe, 20 ripe and 10 soft. Find the probability of picking a ripe and soft mango at once.
- (c) Unity School intends to hold her Inter-house sport Competition. Out of the 12 Prefects in the school, a committee of 4 is randomly selected, in how many ways can this committee be selected?