

**LAGOS CITY POLYTECHNIC, IKEJA**  
**SCHOOL OF ENGINEERING AND APPLIED SCIENCE**  
**DEPARTMENT OF ELECT/ELECT AND COMPUTER**  
**ENGINEERING**

~~2018/2019 SEMESTER EXAMINATION~~

<b>COURSE</b>	<b>TITLE:</b>	<b>INTRODUCTION</b>	<b>TO</b>
<b>QUESTION:</b>	<b>STATISTICS</b>	<b>I</b>	<b>NO</b>
<b>COURSE CODE: STA III</b>			<b>OF</b>
			<b>6</b>
			<b>TIME: ALLOWED:</b>

**2HRS**

1. **FOR WHOM** between **ND YR** the **I CS**, following **Perms:**  
**INSTRUCTIONS:** Descriptive **Answers** statistics **and** inferential **4** statistics

**Questions** Quantitative **and** Qualitative **variables.**

(iii) Statistic **and** Parameter

(iv) Primary **and** Secondary **Data**

(v) Random **Sample** **and** Purposive **Samples**

(b) The data below reflects the daily income in (naira) of 55 workers of Ade block industry.

100	246	400	425	310	481	286	386	390	305	310
213	318	155	232	393	453	325	410	487	354	590
320	356	200	195	273	390	480	413	490	658	376
367	420	415	332	216	140	250	498	420	586	537
421	356	360	418	348	256	186	398	235	526	372

(i) Construct a frequency distribution, for the above data using classes 100-200, 200-300,....

estimate (ii) Based on the constructed frequency distribution, draw histogram and the modal income.

2. (a) Describe the following methods of data collection  
 (i) Personal interview method  
 (ii) Mailed questionnaire method  
 (iii) Telephone method

(b) Distinguish between the above methods based on:

(i) Time (ii) Cost (iii) Level of non-response  
 (iv) Reliability of the data collected

3. (a) State three(3) advantages of sampling over complete enumeration

(b) Describe the following methods of sample selection  
 (i) Simple random sampling (ii) Stratified sampling  
 (iii) Cluster sampling (iv) Systematic sampling

4. (a) The table below represents the average overtime income (in naira) of 55 employees

of ABC company.  
 Overtime Income Number of Employees

1. (a) Distinguish between the following terms:  
 (i) Descriptive Statistics and inferential statistics  
 (ii) Quantitative and Qualitative variables.  
 (iii) Statistic and Parameter

(iv) Primary and Secondary Data  
 (v) Random Sample and Purposive Samples

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 (b) Describe the following methods of sample selection  
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4. (a) The table below represents the average overtime income (in naira) of 55 employees

Overtime	Income	Number	of Employees
100		200	5
200		300	10
300		400	20
400		500	15
500		600	4
600		700	1
<b>Total</b>		<b>55</b>	

- (a) Compute  
 (i) Average overtime income  
 (ii) Modal overtime income  
 (iii) Median overtime income  
 (b) (i) Standard deviation of overtime income

