



ONDO STATE UNIVERSITY OF SCIENCE & TECHNOLOGY (OSUSTECH) OKEHUPA  
FACULTY OF SCIENCE

DEPARTMENT OF MATHEMATICAL SCIENCES

2017/2018 FIRST SEMESTER TEST

COURSE CODE: MTH 105 Credit: 2 Date: 8<sup>th</sup> May, 2018

COURSE TITLE: INTRODUCTORY STATISTICS

INSTRUCTION: Answer All the Questions below.

1. Two types of data are (i) \_\_\_\_\_ (ii) \_\_\_\_\_  
2. Methods of data collection are (i) \_\_\_\_\_ and (ii) \_\_\_\_\_  
The following two digits numbers are marks obtained by 40 students of OSUSTECH in MTH 105 Test.  
77 81 74 56 63 52 87 90 34 29 57 68 29 34 98 58 43 51 74 64 68 39 45 83 62 94 36 61 88 89 38 54 46 73 67 31 27 45 99 79  
Use the information to answer the following questions 3 - 5:

3. How many students have mark less than 40? Answer \_\_\_\_\_ (4) How many students have marks less than 50? Answer \_\_\_\_\_  
5. If the pass mark is 60, how many pass? Answer \_\_\_\_\_ (6) Two or more events that cannot occur simultaneously is called \_\_\_\_\_  
7. If a fair die is tossed. The probability of obtaining a 6 is \_\_\_\_\_ (8) the number of units in a sample is called the \_\_\_\_\_  
9. If the probability of a student solving a mathematics problem is  $\frac{3}{4}$  and of another solving it is  $\frac{3}{5}$  The probability that at least one will solve it is \_\_\_\_\_  
10. Box X contains 7 electric bulbs of which 3 are defective and box Y contains 5 bulbs of which 2 are defective. If a bulb is drawn from each box, what is the probability that both are non-defective? \_\_\_\_\_  
11. A die is thrown twice. The probability of getting a sum of 13 is \_\_\_\_\_  
12. A basket contains 3 black and 5 yellow balls. 2 balls are picked at random one after the other without replacement. What is the probability that both balls are black? \_\_\_\_\_  
13. The probability that Bukky will pass MTH 105 test is  $\frac{4}{5}$ . The probability that she fails is \_\_\_\_\_

Given that Median =  $l + \left( \frac{\frac{N}{2} - n}{f} \right) c$ . (14) What is  $l$ ? \_\_\_\_\_ (15) What is  $m$ ? \_\_\_\_\_