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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES... DEPARTMENT OF ECONOMICS 2021_1 EXAMINATION

COURSE TITLE: APPLIED STATISTICS

COURSE CODE: ECO 726

UNITS: 2

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER ANY THREE QUESTIONS. ALL QUESTIONS CARRY

EQUAL MARKS

Question One

The distribution (X) of the scores of 10 students in Applied Statistics is given as

X = 30, 45, 18, 35, 55, 60, 63, 57, 17, 20

If the pass mark is 50, compute:

(i)	The mean of all the students	(8 Marks)
(ii)	The mean of students that passed the examination	(8 Marks)
(iii)	The variance of students that fail the examination	(7 Marks)

Question Two

If 120 tosses are made of a fair coin;

a. Find the probability that between 35% and 62% will be heads.	(8 Marks)
b. Find the expected number of heads	(8 Marks)
c. Find the standard deviation of the number of heads	(7 Marks)

Question Three

Write short notes on the followings

i. Convenience sampling:	(6 Marks)
ii. Purposive sampling:	(6 Marks)
iii. Voluntary sample	(6 Marks)
iv. Quota sampling	(5 Marks)

Question Four

What are the properties of good point estimators? (23 Marks)