

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY (I.T.E)
FIRST SEMESTER 2021/2022 SESSION EXAMINATION
COURSE CODE: ITE 352
TITLE: SEMI-CONDUCTOR DEVICES
INSTRUCTIONS

ANSWER ANY FOUR (4) QUESTIONS.

TIME ALLOWED: 2 HOURS

(1a) What do you understand by the term "semi-conductors"?

(1b) Give two examples of semi-conductors you know.

(2a) Draw and explain the structure of any atom.

(2b) What is valence electron?

(3a) Explain the terms:

(a) intrinsic semi-conductor

(b) extrinsic semi-conductor

(4a) Explain using diagrams what are:

(a) majority charge Carriers.

(b) minority charge Carriers.

(5a) What is barrier voltage?

(5b) How does it works?