## FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION FIRST SEMESTER EXAMINATION 2018/2019 SESSION

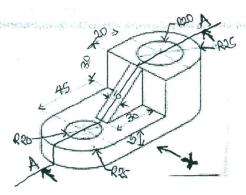
TIME: 2 HOURS COURSE TITLE: TECHNICAL DRAWING III

INSTRUCTION: ANSWER QUESTION (1) COMPULSORY AND ANY OTHER TWO (2)

QUESTIONS IN SECTION B

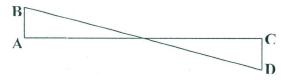
COURSE CODE: ITE 313

1. Draw the isometric block below into first angle orthographic projection looking at the direction of point 🗶 and the Sectional top view A-A of the block



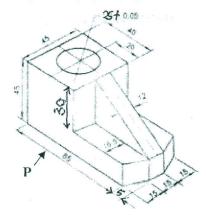
## SECTION B: ANSWER ANY OTHER TWO (2) QUESTIONS

- 2. A linked crank mechanism consisting of two cranks, AB and CD, joined by a link DB which is fixed at D and slides through B as shown below:
  - a. Draw to a scale of 1:1 the given schematic of the mechanism
  - b. Trace the locust generated by point P for one complete revolution of the mechanism



NB: As crank AB rotates in anticlockwise direction, crank CD rotates in a clockwise direction at the same velocity. AB = 20 mm; AC = 40 mm

3. Draw the Isometric block into third angle orthographic projection. Looking at the direction of point P



Draw the development of a lateral surface of part P of the cylinder of 45mm diameter as shown below:

