

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION  
DEPARTMENT OF INDUSTRIAL & TECHNOLOGY EDUCATION**

**FIRST SEMESTER 2019/2020 SESSION EXAMINATION**

**COURSE TITLE/CODE:** Technical Drawing II (ITE 217).

**TIME ALLOWED:** 2 Hours

**INSTRUCTION:** Attempt (3) questions.

**Question 1.** Draw the first angle projection of fig 1. below. A front view looking in the direction of arrow A.

**Question 2.**

- a) A cone of base 60 and height 70 mm rests with its base on H.P. A section plane perpendicular to V.P and inclined at  $30^{\circ}$  to H.P bisect the axis of the cone. Draw the development of the lateral surface of the truncated cone.
- b) Draw the sectional view of the fig. 1 in the direction of arrow x-x.

**Question 3.**

- a) A circle of 40mm rolls along a straight line without slipping. Draw the Cycloid, traced out a point P on the circumference, for one complete revolution of circle.
- b) Draw the development of the lateral surface of the prism in fig.2

**Question 4.**

- a) Draw the development of a truncated cylinder in fig.3
- b) Draw the sectional view in the direction of the arrow A-A in fig. 4.

