



LANDMARK UNIVERSITY, OMU-ARAN
COLLEGE OF ENGINEERING
B. Eng. (HONS) ENGINEERING
2021/2022 ALPHA SEMESTER EXAMINATION

COURSE CODE: GEC 212

COURSE UNIT: 2

INSTRUCTION(S): Answer Question 1 and any other two (2) questions. You are to draw just one title block but place borderlines on both sides of the paper

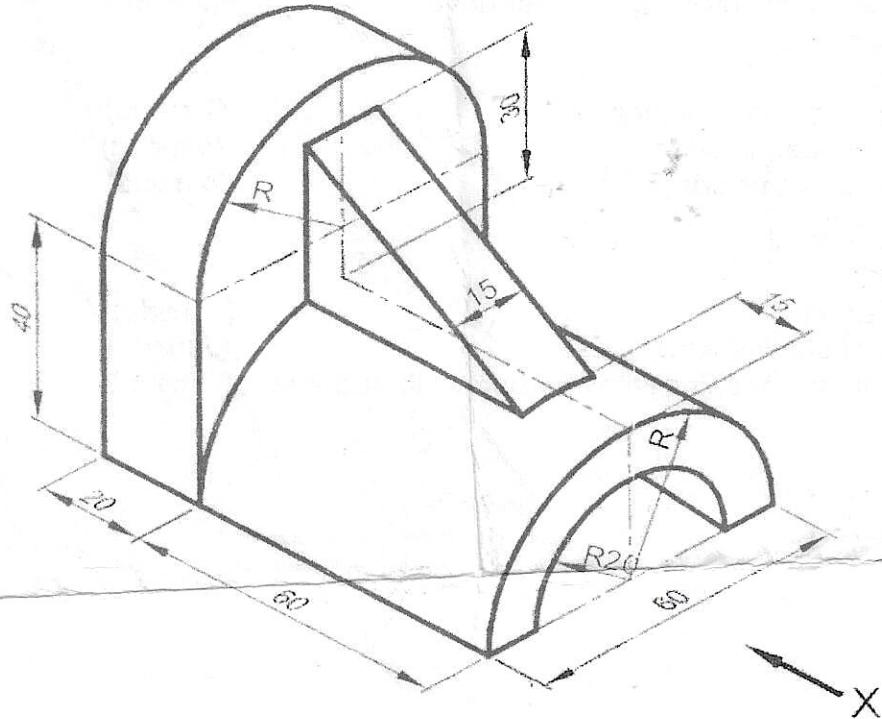
COURSE TITLE: Engineering Graphics

TIME: 2 HOURS

Question One

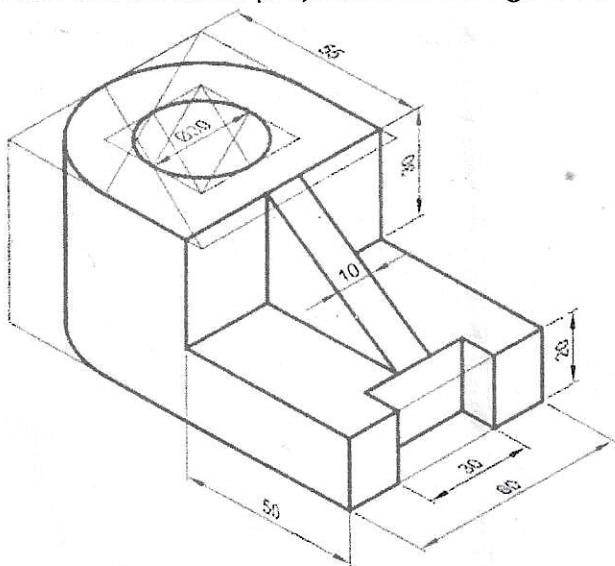
(a) Draw the first angle projection of the figure below

(15 marks)



(b) Draw the isometric projection of the figure below

(15 marks)



- (c) With a very brief note, list the component you observe when reading and interpreting an engineering drawing (10 marks)

Question Two

- (a) Define the following terms; i. sectioning ii. cutting plane (5 marks)
(b) Highlight five (5) kind of sections (5 marks)
(c) Mention five (5) types of gears (5 marks)

Question Three

- (a) Enumerate four (4) types of bolts and explain any one (5 marks)
(b) Highlight three (3) advantages and 1 disadvantage of screwed joints (5 marks)
(c) State three (3) advantages and 2 disadvantages of gear drives (5 marks)

Question Four

- (a) Enumerate seven (7) principles of dimensioning (7 marks)
(b) State four (4) purposes of technical drawing (4 marks)
(c) List ten (10) drawing instruments and aids (4 marks)

Question Five

- (a) State three (3) features of lettering (3 marks)
(b) Highlight five (5) elements of dimensioning (5 marks)
(c) Describe two (2) methods of dimensioning with appropriate illustrations (7 marks)