I Q R A   N A T I O N A L   U N I V E R S I T Y ,   P E S H A W A R

DEPARTMENT OF CIVIL ENGINEERING

MID TERM EXAMINATION

Subject: Applied Mechanics	**Duration:** 4 hrs.
Instructor: Engr Khurshid Alam	**Total Marks:** **30**
Course code: CE-144	

Note: Attempt all questions. Manage your time properly. Understanding question paper is the part of examination. Draw diagrams wherever necessary. Please refer to your notes for assistance. Copy from internet will be marked less.
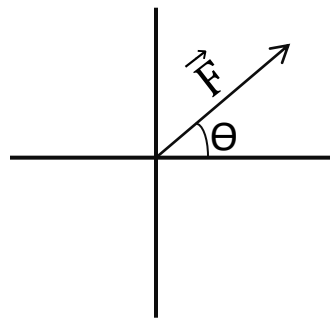
No. (01)   *(4+6)*

   a) Define Applied Mechanics. Briefly describe branches of applied mechanics.

   b) What is meant by system of units? Elaborate the difference between basic and derived quantities.

No. (02)   *(5+5)*

   a) Describe Force. What are the effects of force acting on a body

   b) What is meant by resolution of force? Derive Horizontal component, Vertical component and the resultant of an inclined force by using resolution of force.

No. (03)   *(5+5)*

   a) Discuss in detail about the fundamental laws of mechanics.

   b) Describe Moment. How a moment can be represent geometrically

THE END