



KAFRELSHEIKH UNIVERSITY- Faculty of Science - Department of Physics

EXAM FOR 2ND YEAR SCIENCE STUDENTS

COURSE TITLE:

Elastic Theory

DATE:

TERM: SECOND

TOTAL ASSESSMENT MARKS:

TIME ALLOWED:

**Write a report on one of the following & support it with examples
Please use different sources
(Minimum size is 4 pages+ a cover page includes
your name & the report title)**

1. Mechanical properties of materials
2. Stress design and material property relationships
3. Torsion in a circular shaft
4. Fracture, creep, Stress, strain and their types
5. Dislocation and plastic deformation
6. Inelastic torsion and residual stress