1. the ultimate strength of steel in tension in comparison to shear is the ratio of :
A. 1:1
B. 2;1
C. 3:2
D .2:3
Ans c
2. the permissible stress of carbon under static loading in kg/cm <sup>2</sup> is
A. 2000: 3000
B. 3000:4000
C. 4000:4500
D. 5000:6000
Ans c
3. the property of a material which enables to to resist fracture due to high impact is known as :
A. elasticity
A. elasticity
A. elasticity  B. strength
A . elasticity  B . strength  c. endurance
A . elasticity  B . strength  c. endurance  d . toughness
A . elasticity  B . strength  c. endurance  d . toughness  ans d
A. elasticity  B. strength  c. endurance  d. toughness  ans d  4. a hot short metal is:
A . elasticity  B . strength  c. endurance  d . toughness  ans d  4. a hot short metal is :  A . brittle when cold
A . elasticity B . strength c. endurance d . toughness ans d 4. a hot short metal is : A . brittle when cold b. brittle when hot

5. rankine's theory of failure is applied for the following materials
A . brittle
b. ductile
c . elastic
d. hard
ans a
6. brittle coating technique is used for:
a. experimental stress analysis
b. destructive test
c. deterring brittleness
d. non destructive test metals
ans a
7 . the endurance limit of a material of finished surface in comparison with rough surface is : $ \\$
A . more
B .same
C .less
D . more or less
Ans a
8. the endurance limit is always depends on
A .strength
B . temperature
c. hardness
d . stiffness
ans . b

A . surface finish
A . Surface finish
b. temperature
c. element size
d . all of the above
ans . d
10. stress concentration in static loading is more serious in;
a. ductile materials
b .brittle materials
c . equally serious in both cases
d. non of the above
ans b
12. stress concentration in cyclic loading is more serious in :
A . brittle materials
B . ductile
C. both
D ., equally serious
Ans . b
13. the notch angle of the izod imact test specimen in degree is :
a. 10
b.20
c.30
d. 45
ans d

 ${\bf 9}\,$  . the endurance limit of carbon steel is always depends on  $\,:\,$ 

14 . in testing material for endurance strength it is subjected to :
A . static loading
B . dynamic loading
C .static loading as well as dynamic loading
D . non of the above
Ans c
15. if the material fails bellow its yield point, failure would be due to:
A . straining
B . fatigue
c. creep
d. sudden impact
ans b
16. cold working:
A . increases the fatigue strength
b. surface strength
c. hardness
d . fatigue limit
ans a