 1. What indenter is used for Brinell test? a) Hardened steel ball b) Diamond ball c) Diamond prism d) Steel Prism 	
2. What test force is applied for nonferrous materials in Brinell test?a) 50 kgfb) 500 kgfc) 1000 kgfd) 3000 kgf	
 What test force is applied for steels and cast irons in Brinell test? a) 500 kgf b) 1000 kgf c) 2000 kgf d) 3000 kgf What is the most important source of error in the Brinell test? a) Surface roughness b) Indentation measurement c) Coarse structure d) Indenter error What is the ball diameter taken for indenter of 500 kgf load in Brinell test a) 50 mm b) 1 mm c) 5 mm 	1?
d) 10 mm 5. For Brinell hardness test is kept constant. a) P b) P/D c) P*D d) P/D²	
7. For very hard metals ball is used in Brinell test. a) Hardened steel b) Alloyed steel c) Tungsten carbide d) Diamond	

	8. Which machine records the change in length of specimen?a) Impact testing machineb) Universal testing machinec) Rockwell testerd) Brinell tester
b. c.	9. The property of a material that resists penetration or indentation by means of abrasion or scratching is known as Strength Hardness Toughness Brittleness
b. c.	10. During hardness test the indenter is usually a Ball Pyramid Cone All of the above
b. c.	11. In C-scale of Rockwell hardness testing, the shape of indenter used is Diamond cone Steel ball Steel prism Any of the above
b. c.	12. The impact test is done to test of a material Strength Ductility Toughness Hardness
b. c.	13.In Izod test, the specimen is kept as Simply supported beam Cantilever beam Overhanging beam Fixed ended beam
	14. State Griffith's Theory of Brittle Fracture?

15. Do only brittle materials undergo fracture? Why?

16. What do you mean by cohesive strength of a material?

17. Differentiate between Ductile and Brittle fracture?
18. Define scratch hardness of a Material?
19. Write the advantages of Tukon tester over Rockwell hardness Tester?
20. What does the stress-strain curve indicate?
21. Differentiate between Tension and Tortion?
22.Differentiate between Elastic and Plastic Limit?
23. Knoop Indenter is used in?
24. Define Yield Point?
25. Separation of a material into two or more pieces under stress is called?
26. How is fatigue different from Creep?
27. what are the various factors affecting creep?
28. The phenomenon of propagation of Crack and Fracture on a Metal surface is same or different? Give Reasons?
29. Discuss the need for performing NDT?
30. How is deformation related to fracture toughness?
31.Failure due to excessive deformation is controlled by
a.Material properties
b.Design & Dimensions
c.Both
d.None

32.Time dependent yield is known as
a.Fracture
b.Fatigue
c.Buckling
d.Creep
33. Failure due to excessive deformation is controlled by
a.Yield strength
b.Tensile strength
c.Young's Modulus
d.AII
34.Cleavage fracture appears
a.Bright
b.Dull
c.Difficult to Identify
d.None
35.Brittle fracture is more dangerous than ductile fracture because
a.No warning signs
b.Crack propagates at very high speeds
c.No need for extra stress during crack propagation
d.AII
36.Fracture voids usually form at
a.Inclusions

b.Second phase particles
c.Grain boundary triple points
d.All
37.Fracture toughness is measured in terms of
a.Strain energy release rate
b.Stress concentration factor
c.Both
d.None
38.Fracture Toughness decreases with
a.increasing temperature
b.increasing strain rate
c.increase in yield strength
d.increase in grain size
39.Creep rate in terenary stage
a.Decreases
b.Constant
c.Increases
d.None
40.Most often machine components fail by
a.Buckling
b.Creep
c.Fatigue

d.AII
41.How does the charpy impact testing machine differs from theizod machine?
42.Write the formula to calculate the B.H.N?
43.UTM is used to measure?
44. What are the various metallurgical factors that influence creep?
45 is used to denote the strength of a metal at temperature much avobe the room temp.
46.Define Residual Stress?
47. What do you mean by Dislocation pile up?
48.Dislocations move under the conditions of an external load. True/False?
49. What are the various factors due to which dislocation movement is obstructed?
50.Name any two point defects?
51.Define Cohesive Strength?
52.Differentiate between Hot working & Cold working?
53.What is the relation between Hardness & Strength?
54.Write the limitations of Rebound Hardness?
55 consist of ten minerals arranged in increasing order of their Hardness.
56.Name the oldest Hardness testing methods?
57consist of an anvil, which is changed depending upon the shape of the specimen under Test.

58.______is used to determine the hardness of extremely thin materials.

59. Write any two limitations of Rockwell hardness Tester?

60.Define Mayer's Hardness?