MITWPU

Material Science Question Bank

	By- S. A. Dhavale, Div-13
1.	What do you understand by hardness
a)	It is a resistance to deformation
•	It is resistance to scratch
c)	It is resistance to indentation
d)	All
u	Answer: d) All
2.	The material shows maximum hardness
a)	Diamond
•	Calcite
•	Talc
d)	Topaz
u)	
2	Answer: a) Diamond
3.	
a)	1
•	3
c)	9
d)	12
	Answer: a) 1
4.	Hardness testing includes
a)	Brinell
•	Vickers
•	Rockwell
d)	All
_	Answer: d) All
	, .
a)	Surface analysis
	Indenter shape and size
c)	Material of indenter
d)	None
_	Answer: b)
6.	Toughness testing includes
a)	Brinell
b)	Izod
c)	None
d)	Don't know
	Answer: b)
7.	Tensile test provides data
a)	About young's modulus
b)	Ultimate tensile strength
c)	Both a and b
d)	None
	Answer: c) Both a and b
8.	The equation is used for $\frac{P}{(\pi Dt)}$?

a) To calculate Rockwell hardness b) To calculate Brinell hardness c) To calculate Tensile strength

d) None of these

MITWPU

Material Science Question Bank

	By- S. A. Dhavale, Div-13
	Answer: b) to calculate Brinell hardness
9.	In vicker's hardness testing the indenter used is of shape
•	Circular
	Square
	Square based diamond pyramid
d)	Solid ball
	Answer: c) Square based diamond pyramid
10.	To check hardness of carburized steel surface or thin coatings which of the following method
	is used?
•	Brinell
•	Rockwell Wintern
•	Vickers
a)	Microhardness
	Answer: d) Microhardness
11	Ratio of change of length to original length is called as
	Stress
•	Strain
•	True stress
•	None
,	
	Answer: b) Strain
12.	Stress is calculated by using these quantities
a)	Pressure and area
b)	Force and volume
c)	Force and area
d)	Pressure and volume
	Answer: c) Force and Area
13.	The equation is used for $\frac{1.854 P}{(L^2)}$?
a)	Brinell hardness
b)	Rockwell hardness
c)	Vickers hardness
d)	Microhardness
	Answer: c) Vickers hardness
14.	Elastic deformation will be possible only for
a)	The metal which obeys Hook's Law
b)	The material which are naturally existed in nature
c)	All non-metals
d)	None
	Answer: a) The metal which obeys Hook's Law

15. The result of the tensile testing is

- a) A stress-strain curve
- b) A graph upto failure of material

MITWPU

Material Science Question Bank

By- S. A. Dhavale, Div-13

c) d)	A graph of both metal and non-metals behaviors with respect to unidirectional loading All
	Answer: d) All
16.	Necking starts after elastic deformation
a)	True
b)	False
c)	Cant say
d)	Statement is invalid
	Answer: b) false
17.	Ultimate strength is the maximum stress which can be sustained by material before necking
a)	True
b)	False
c)	Cant say
d)	Statement is invalid
	Answer: a) True
18.	Cup and cone would be formed for
a)	Non metals
b)	Diamond
c)	Steel
d)	None
	Answer: c) Steel
19.	The energy absorbed by nonmetals are
a)	Less as compared with metals
b)	More than metals
c)	Cant say
d)	Invalid statement
	Answer: a) Less as compared with metals
20.	The plastic deformation is only possible for
a)	Non metals
b)	Diamond
c)	Metals
d)	None

Answer: c) Metals

MITWPU Material Science Question Bank By- S. A. Dhavale, Div-13