Quizlet

7 Multiple choice questions				
 the ability of a material to withstand permanent deformation without failure timber tension plasticity strain 				
 a naturally occurring composite material made up of cellulose and lignin a. timber b. tension c. truss d. shear 				
 3. the first point (load) at which a specimen yields and where an increase in strain occurs without an increase in strength a. vitreous b. yield stress c. yield point d. tension 				
 4. a calculation based on cross-sectional areas used to predict the resistance of a beam to bending and deflection a. superstructure b. yield point c. second moment of area d. tension 				
 5. the amount of deformation an object experiences compared to its original length a. stress b. strain c. shear d. truss 				
 a. proof stress b. stress c. yield stress d. truss 				

7.	. items related to bridges including the roadway, footpaths, railings and supporting structural members		
	a.	superstructure	
	b.	plasticity	
	C.	shear	
	d.	proof stress	
8.		asure of rigidity; may also refer to a resistance to flexing	
		stress	
	b.	timber	
	C.	truss	
	d.	stiffness	
9.	9. a supportive structure consisting of beams or girders with members arranged in a triangulated configuration		
	a.	truss	
	b.	timber	
	c.	strain	
	d.	stress	
10.	a teri	m which describes a material that is glass-like in structure	
	a.	truss	
	b.	timber	
	c.	stress	
	d.	vitreous	
11.	the r	atio of stress to strain within the elastic region of the stress-strain curve (prior to the yield point)	
	a.	truss	
	b.	vitreous	
	c.	Young's modulus	
	d.	yield point	
12.	a ma	terial consisting of a soft, ductile matrix of iron with large inclusions of slag, elongated by the forming process	
	a.	wrought iron	
	b.	truss	
	c.	proof stress	
	d.	tension	

13. the relationship between force and the cross-sectional area of a material

	a.	shear
	b.	stress
	c.	truss
	d.	strain
14.	the n	naximum stress a material can withstand before failing
	a.	yield point
	b.	tension
	c.	yield stress
	d.	ultimate tensile strength
15.	force	es applied to a body that attempt to stretch or make the body longer
	a.	strain
	b.	stress
	c.	tension
	d.	truss
16.	move	ement of a material in which parallel internal surfaces slide past one another
	a.	strain
	b.	truss
	c.	shear
	d.	stress
17.	the n	naximum engineering stress, in Mpa, at which permanent, non-elastic deformation begins
	a.	stress
	b.	yield stress
	c.	proof stress
	d.	yield point