

NADAR SARSWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE / Civil	Year / Semester :IV / VII	Format No.	NAC/TLP-07a.13
Subject Code :OML751	Subject Name :Testing of Materials	Rev. No.	02
Unit No : I	Unit Name : INTRODUCTION TO MATERIALS TESTING	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	
1	The ability of the material to resist stress without failure is called a. Strength b. Hardness c. stiffness d. toughness	L1
2	The property of a material that resists penetration or indentation by means of abrasion or scratching is known as a. Strength b. Hardness c. Toughness d. Brittleness	L1
3	The property of metals by which they can be beaten in to thin sheets is called a. malleability b. Ductility c. conduction d. Expansion	L1
4	The property of metal by which it can be drawn into wires is called a. Conductivity b. malleability c. Ductility d. Decorating	L2
5	Time dependent permanent deformation is called _____. (a) Plastic deformation (b) Elastic deformation (c) Creep (d) Anelastic deformation	L2
6	Thermoplastic materials are those materials which a. are formed into shape under heat and pressure and results in a permanently hard product b. do not become hard with the application of heat and pressure and no chemical change occurs c. are flexible and can withstand considerable wear under suitable conditions d. are used as a friction lining for clutches and brakes	L2
7	Cast iron is a a. ductile material b. malleable material c. brittle material d. tough material	L1
8	The hardness is the property of a material due to which it a. can be drawn into wires b. breaks with little permanent distortion c. can cut another metal d. can be rolled or hammered into thin sheets e.	L1

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9	The ability of a material to absorb energy in the plastic range is called a. resilience b. creep c. fatigue strength d. toughness	L2
10	Organisation is a process of (A) Identifying and grouping of work to be performed (B) Defining and delegating the responsibility and authority (C) Both 'A' and 'B' (D) None of the these	L2
11	Steel Contains a) 80% or more iron b) 50% or more iron c) Alloying elements like Chromium, tungsten nickel and copper d) Elements like phosphorus, sulphur and silicon in varying quantities	L2
12	Young's modulus is defined as the ratio of a) Volumetric stress and volumetric strain b) Lateral stress and lateral strain c) Longitudinal stress and longitudinal strain d) Shear stress to shear strain	L1
13	The property of a material by virtue of which it can be beaten or rolled into plates is called a) Malleability b) Ductility c) Plasticity d) Elasticity	L1
14	Thermal analysis is defined as _____ a) Measurement of concentration of materials as a function of temperature b) Measurement of solubility of materials as a function of temperature c) Measurement of physical properties as a function of temperature d) Measurement of line positions of crystals as a function of temperature	L1
15	What are the two main techniques for thermal analysis? a) FTG AND DGG b) MSP AND FCT c) TGA AND DTA d) TSA AND DGF	L2
16	Which of the following statement is false for mass spectroscopy? a) Mass spectroscopy is used to identify unknown compounds within a sample, and to elucidate the structure and chemical properties of different molecules b) Particle are characterized by their mass to charge ratios (m/z) and relative abundances c) This technique basically studies the effect of ionizing energy on molecules d) This technique can be used on all state of matter	L3
17	Chromatography is a physical method that is used to separate and analyse _____ a) Simple mixtures b) Complex mixtures c) Viscous mixtures d) Metals	L3

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18	In chromatography, which of the following can the mobile phase be made of? a) Solid or liquid b) Liquid or gas c) Gas only d) Liquid only	L3
19	ASTM stands for _____ a) American Society for Tensile Measurement b) American Society for Testing and Materials c) American Society for Tool Measurement d) American Society for Tensile Material	L2
20	ANSI stands for _____? A. Asian Narcotics Standards Institute B. American National Standards Institute C. Asian National Standards Institute D. American Narcotics Standards Institute	L2
21	Creep is a ____ dependent phenomenon. a) Temperature b) Time c) Load d) Stress cycle	L2
22	Creep occurs due to sliding of _____ a) Vacancies b) Voids c) Grain boundaries d) Dislocations	L1
23	Creep occurs only at high temperatures. a) True b) False	L2
24	The percentage of carbon in low carbon steel is a. 0.05% b. 0.15% c. 0.3% d. 0.5%	L2
25	A material is said to be allotropic, if it has a. fixed structure at all temperatures b. atoms distributed in random pattern c. different crystal structures at different temperatures d. any one of the above	L2