

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 : II	Unit Name : MECHANICAL TESTING	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	Tensile test can be performed on a. Impact testing machine b. Universal testing machine c. Rockwell tester d. Brinell tester	L1
2	Which machine records the change in length of specimen? a. Impact testing machine b. Universal testing machine c. Rockwell tester d. Brinell tester	L1
3	In universal testing machine, the tensile specimen of mild steel fails in shear and the shear stress is maximum at __ degrees planes with respect to the direction of load. a. 30 b. 45 c. 60 d. 75	L4
4	The shape of specimen used in compression test is Cube, Cylinder, Cuboid, Prism Which of the above is true? a. Only i b. i & ii c. i, ii & iii d. All of the above	L2
5	During compression test of cast iron, the failure occurs i.e. the crack appears along the a. Diagonal b. Surface parallel to load applied c. Surface perpendicular to load applied d. Any of the above	L2
6	During hardness test the indenter is usually a a. Ball b. Pyramid c. Cone d. All of the these	L1
7	The indenter used in Brinell hardness test is a a. Ball b. Cone c. Cylinder d. Pyramid	L1
8	For hardness test of copper in Brinell hardness tester, the diameter of ball is a. 1 mm b. 3 mm c. 5 mm d. 7 mm	L2

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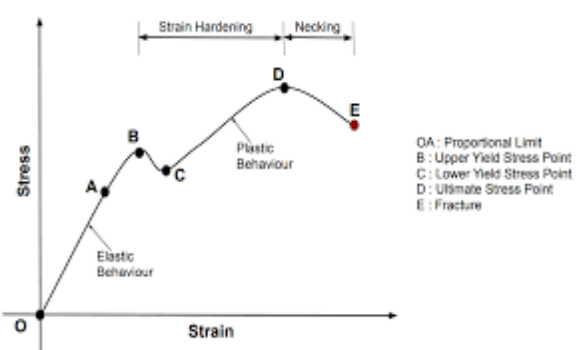
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9	In C-scale of Rockwell hardness testing, the shape of indenter used is a. Diamond cone b. Steel ball c. Steel prism d. Any of the above	L2
10	The load applied in C-scale of Rockwell hardness test is a. 60 kgf b. 100 kgf c. 120 kgf d. 150 kgf	L4
11	Pyramid type diamond indenter is used in a. hardness testing b. Rockwell hardness testing c. Vickers hardness testing d. All of the above	L2
12	The impact test is done to test ____ of a material a. Strength b. Ductility c. Toughness d. Hardness	L2
13	In Izod test, the specimen is kept as a. Simply supported beam b. Cantilever beam c. Overhanging beam d. Fixed ended beam	L1
14	In Charpy impact test, the specimen is kept as a. Simply supported beam b. Cantilever beam c. Overhanging beam d. Fixed ended beam	L1
15	In charpy test specimen, the angle of v-notch section is a. 30 degrees b. 45 degrees c. 60 degrees d. 90 degrees	L1
16	Engineering stress-strain curve and True stress-strain curve are equal up to (a) Proportional limit (b) Elastic limit (c) Yield point (d) Tensile strength point	L2

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17	Shape of true stress-strain curve for a material depends on (a) Strain (b) Strain rate (c) Temperature (d) All	L2
18	Toughness of a material is equal to area under _____ part of the stress-strain curve. (a) Elastic (b) Plastic (c) Both (d) None	L2
19	The ability of the material to withstand tensile force, without breaking, is known as _____ a) Yield strength b) Tensile strength c) Compressive strength d) Creep strength	L2
20	Which hardness test uses a diamond indenter in the shape of a pyramid. A. Rockwell Test B. Vickers Test C. Brinell Test D. Knoop Test	L2
21	Up to which point in the graph shown below, Hooke's Law is obeyed  a. Up to point D b. Up to point A c. Up to point B d. Up to point X	L3
22	What kind of indenter is used in a Brinell test? a) Diamond cone b) Steel ball c) Pen dot d) Long tube	L2

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23	<p>What is the angle of indenter in Vicker's hardness test?</p> <p>a) 96 degrees b) 110 degrees c) 136 degrees d) 150 degrees</p>	L2
24	<p>What is the size of the specimen used Charpy test?</p> <p>a) 75*10*10 b) 75*5*5 c) 55*10*10 d) 55*5*5</p>	L2
25	<p>What is the cross section of a standard specimen for impact testing?</p> <p>a) 10mm×10mm b) 10mm×20mm c) 20mm×20mm d) 15mm×20mm</p>	L2
26	<p>Izod uses _____ hammer as striker and Charpy use _____ hammer.</p> <p>a) Farming, farming b) Farming, Ball pin c) Ball pin, forming d) Ball pin, ball pin</p>	L1

