

Most likely GBTU questions & answers along with previous semester Questions & Answers

MANUFACTURING PROCESSES (EME-101/ 201).

Further reading and reference books

- (1) *Materials and manufacturing processes* by E Paul DeGarmo, JT Black, Ronald A Kohser
 (2) *Workshop technology* by SK Gang (3) *Manufacturing Processes* by V Narula
 (4) *Manufacturing Processes* by B S Raghuvanshi (5) *Manufacturing Processes* by KM Moeed

UNIT-I*

1.* Explain toughness. Indicate the toughness of brittle and ductile materials on stress-strain curve indicating the proportional limit, elastic limit, yield point, UTS and fracture point.

OR

Draw stress-strain diagram for ductile and brittle material. Explain, what do you understand by toughness? 2008-09, SEM-I & sc

OR

Draw stress-strain diagram for ductile and brittle material. Explain the behavior of these materials with help of the diagram. 2008-09, SEM- sc

OR

What is the difference between brittle and ductile material, explain with stress-strain curve?

OR

Explain the difference between: 2010, Spl-Carry(SEM-I/II)

- (i) Elastic limit and proportional limit,
- (ii) Hardness and brittleness
- (iii) Strength and stiffness

OR

Draw a neat sketch for stress and strain in case of ductile and brittle material. Explain the difference between ductility and brittleness.

OR

What is toughness? Where such property is desirable? 2011-12, Spl-Carry

OR

Compare the following: 2011-12, Sem-II

- a) Hardness and toughness
- b) Strength and stiffness

ANSWER:

Ductility: *Ductility is the property of the material by virtue of which the material can be drawn into thin wires without rupture or fracture.* It is the ability of a metal to withstand elongation (deformation in longitudinal direction) under tension without rupture.

Example of ductile material: Gold, silver, aluminum.

Brittleness: *Brittleness is the property of the material because of which the material fails or breaks or fractures or ruptures without any appreciable amount of deformation, before failure.* In other words, lack of ductility is brittleness. An elongation of less than 5% is often taken to indicate a brittle material.

Example of brittle material: Chalk, glass, cast iron etc., it will not stretch and bend before breaking. An elongation of less than 5% in a 50 mm gauge length is often taken to indicate a brittle material.

Stress strain diagram: The stress strain diagram for the ductile (Curve from X-A-B-C-D-E to F) and brittle (X to Y) material is shown in figure. The various points of interest are:

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Judd E. Hollander



Manufacturing Processes Eme 101 201:

Reviewing **Manufacturing Processes Eme 101 201**: Unlocking the Spellbinding Force of Linguistics

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https://blog.gospelcrusade.org/files/book-search/Documents/Hornblower_Episode_Guide.pdf

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