

% C in medium carbon steels ranges from ----- (Classification of Metal Alloys)

- a. 0.3 – 0.5
- b. 0.3 – 0.6
- c. None
- d. 0.3 – 0.4



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Question 4
Not yet answered
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On heating, one solid phase results in another solid phase and a liquid phase during _____ reaction.

- a. Eutectoid
- b. Peritectoid
- c. Peritectic
- d. Eutectic



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PROPERTIES OF ENGINEERING MATERIALS

General

Final Exam Prop of Eng. Materials Jun 7 2021

Question 17

Not yet answered

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Time left 0:23:54

What is Eutectoid reaction at 727°C?

- a. $\gamma (0.8 \% C) \rightarrow \alpha (0.025 \% C) + Fe_3C (6.67 \% C)$
- b. $L (0.53 \% C) + \delta (0.09 \% C) \rightarrow \gamma (0.8 \% C)$
- c. $L (0.53 \% C) + \delta (0.09 \% C) \rightarrow \gamma (0.17 \% C)$
- d. $L (4.3 \% C) \rightarrow \gamma (2.1 \% C) + Fe_3C (6.67 \% C)$

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ENG

08:16
07/06/2021



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Question 31

Not yet answered

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A first solid phase results in a second solid phase another third solid phase on cooling during ----- reaction.

- a. Eutectic
- b. Peritectoid
- c. None
- d. Peritectic
- e. Eutectoid

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Question 34

Not yet answered

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Flag question

At room temperature which is the most stable form of iron?

- a. at Room Temperature ALL of them
- b. Martensite
- c. α -iron
- d. Ledeburite
- e. Pearlite

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Question 35

Not yet answered

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Time left 0:10:41

True stress-strain curve and Engineering stress-strain curve are equal up to

- a. false they are different
- b. Elastic limit
- c. Proportional limit
- d. Yield point
- e. Tensile strength point
- f. Necking



Quiz navigation

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Question 33

Not yet answered

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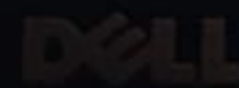
In which of the stages, do we observe a constant deformation rate?

- a. Constant creep stage
- b. Fracture stage
- c. Steady stage creep stage
- d. Transient creep stage
- e. All

Clear my choice

Quiz navigation

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Question **32**

Not yet answered

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Time left 0:12:53

In which of the following does crack propagation occur?

- a. Brittle fracture
- b. Fatigue
- c. None
- d. Ductile fracture
- e. It doesn't occur during fracture
- f. Creep

Quiz navigat

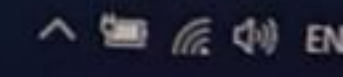
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Question 30

Not yet answered

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Flag question

Arrange the following in increasing order of hardness: talc, gypsum, topaz and diamond.

- a. Diamond, topaz, talc, gypsum
- b. Gypsum, topaz, talc, diamond
- c. Talc, topaz, gypsum, diamond
- d. Topaz, gypsum, talc, diamond
- e. None

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Question 29

Not yet answered

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Time left 0:15:49

What do you think? The following types of metallic materials are usually the most brittle

- a. Hexagonal close packed lattice & Ceramics
- b. ceramics
- c. Magnesium and Zink
- d. Face centered cubic lattice
- e. Body centered cubic lattice
- f. polymers

Quiz navigation

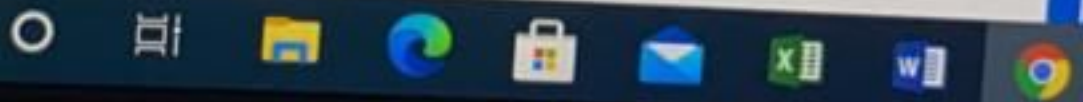
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Question 28

Not yet answered

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Flag question

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Difficult to monitor and very dangerous form of corrosion

- a. Selective Leaching
- b. Crevice
- c. Stress corrosion
- d. Galvanic
- e. Crevice and Galvanic Corrosion
- f. all of them
- g. Pitting

Clear my choice

Quiz navigation

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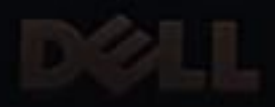
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Question 27

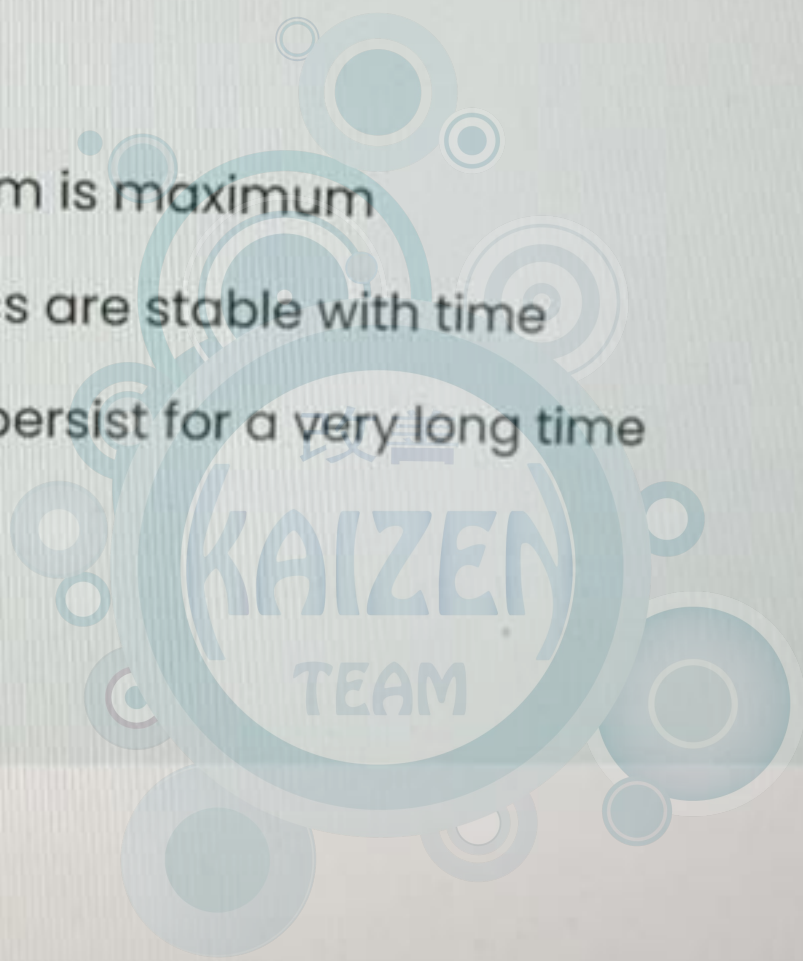
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Which of the following is not correct about phase equilibrium:

- a. Free energy of system is maximum
- b. Phase characteristics are stable with time
- c. A metastable state persist for a very long time
- d. None of them
- e. ALL of them



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Question 25

Not yet answered

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The eutectoid mixture of ferrite (α) and cementite (Fe_3C) is called -----

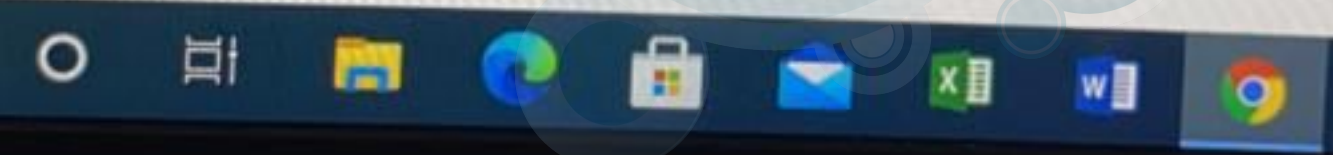
- a. Cast iron
- b. Hyper and hypo eutectoid steel
- c. None
- d. Martensitic
- e. Ledeburite

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Question 38

Not yet answered

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From your background , Which of the following is the property because of which a material can be drawn into wires?

- a. Ductility
- b. Strength
- c. Elasticity
- d. Malleability
- e. Hardness

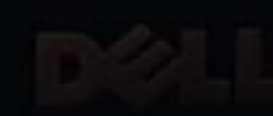
Clear my choice

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Question 26

Not yet answered

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Time left 0:17:17

Which of following crystalline form can iron not take?

- a. a) BCC
- b. It can take all crystalline forms
- c. HCP
- d. a & b
- e. b) FCC

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Question 39

Not yet
answered

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1.25

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question

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One reason why tempered martensite has higher ductility than martensite is:

- a. All of them
- b. Smaller grain size
- c. More ferrite/cementite phase boundary area per unit volume
- d. Slow cooling rate
- e. Continuous ferrite phase matrix

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Question **36**

Not yet answered

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From Iron Carbon Phase Diagram, The phase above eutectoid temperature for carbon steels is known as

- a. Pearlite
- b. Ferrite
- c. Cementite
- d. Carbon Steel
- e. Austentite
- f. Martensite

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Question 37

Not yet answered

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Chose the proper answer:

Slow and fast plastic deformation of metal under a repeated, fluctuated and dynamic stress is known as.

- a. cyclic strain
- b. Creep
- c. non plastic deformation
- d. endurance
- e. None of all

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Chose the most correct one

How is brittleness related to impact strength?

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- a. Brittleness is inversely proportional to impact strength
- b. Brittleness is directly proportional to a square of impact strength
- c. All of them are valid
- d. Brittleness is inversely proportional to a square of impact strength
- e. Brittleness is directly proportional to impact strength

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Question 22
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Necking occurs in which of the following fractures?

- a. Brittle fracture
- b. Fatigue
- c. It doesn't occur during fracture
- d. Creep
- e. Ductile fractures



Quiz navigation

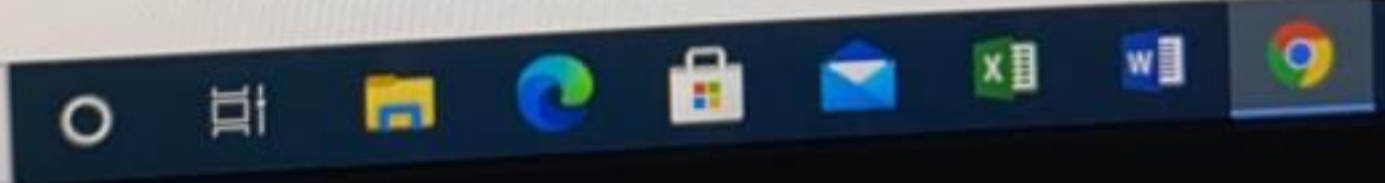
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Not yet answered

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which one the most wright suitable answer?

Ductility is measured in terms of

- a. Modulus of toughness
- b. All of them
- c. Modulus of resilience
- d. elongation and Reduction Area Percentage
- e. Plastic materials
- f. Ultimate tensile strength

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Which is the most tough among the steels given their carbon composition?

- a. 0.2%
- b. 0.1%
- c. 2.5%
- d. 1.5%
- e. 6.76 %



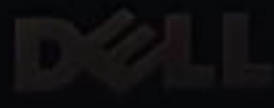
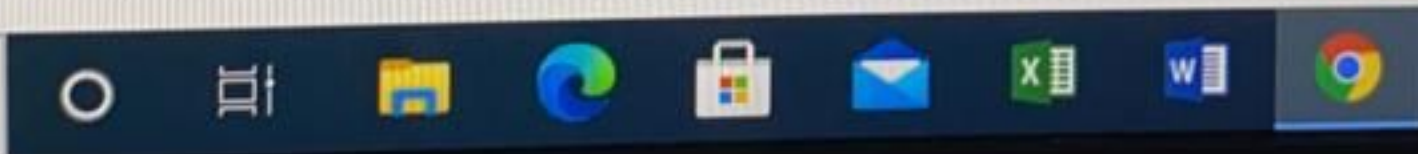
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Question 19
Not yet answered
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Which type of diffusion occurs due to the exchange of an atom with vacancies?

- a. Passive diffusion
- b. Substitution diffusion
- c. Elimination diffusion
- d. Facilitated diffusion



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Question 16

Not yet
answeredMarked out of
1.25Flag
question

Time left 0:24:09

The fracture resistance of a material is defined as its -----

- a. Fracture hardness
- b. Fracture toughness
- c. All
- d. Fracture resilience
- e. Fracture strength

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Question 14

Not yet answered

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Choose the proper one Corrosion of metals involves.....

- a. None
- b. All of them
- c. Physical reactions
- d. Attach a more anodic material
- e. Degradation Process
- f. Electro- Chemical reactions

[Clear my choice](#)

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Question 15

Not yet answered

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As Taxonomy of Metals Mild steel belongs to the following category (According to Classification of Metal Alloys)

- a. low carbon steel
- b. alloy steel
- c. medium carbon steel
- d. None
- e. all of them
- f. high carbon steel

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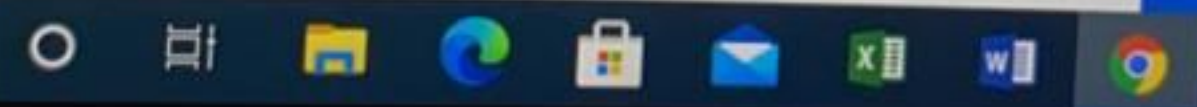
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Question 11

Not yet answered

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Which of the following properties is impact strength indicative of ?

- a. Brittleness
- b. Hardness
- c. Stiffness
- d. High Strength
- e. Elasticity
- f. Toughness
- g. Resilience



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Question 9
Not yet answered
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As a mechanical Properties Which hardness method can be used to measure hardness of a single grain ? chose the proper one

- a. Rockwell
- b. None
- c. Knoop
- d. Shore
- e. Moohe
- f. all of them

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What do you think? Stainless steel is so called because of its -----.

- a. None
- b. all of them
- c. High corrosion resistance
- d. High strength
- e. % C of High carbon Alloy
- f. High ductility
- g. Brittleness



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Question 10

Not yet answered

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Which of the following characteristics describe(s) an isomorphous alloy system

- a. a & c
- b. c. Components have complete solubility in each other
- c. a. Liquid does not exist below liquidus
- d. None
- e. b. Alloys melt at constant temperatures

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The driving force for spheroidite formation is:

- a. Minimizing the cementite in the alloy
- b. The difference in internal energy between plastically strained and unstrained material
- c. Reduction of ferrite/cementite phase boundary area
- d. None
- e. Carbon diffusion

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Brittle fracture Toughness is more dangerous than ductile fracture because
-----.

- a. All
- b. No need for extra stress during crack propagation
- c. No warning sign
- d. False
- e. Crack propagates at very high speeds

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Question 3

Not yet answered

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Question 5

Not yet answered

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Designed base, Which of the following is the numerator of factor safety formula?

- a. Compression Stress
- b. Tensile stress
- c. None
- d. Ultimate stress
- e. Shear stress
- f. Working stress

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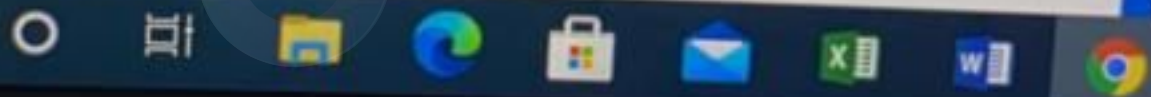
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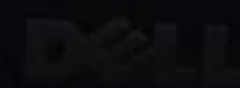
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ENG 08:03 07/06/2021



Question 6

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question

Which of the following characteristics does/do not describe a eutectic system

- a. c. Alloy of eutectic composition solidifies into a single phase eutectic microstructure
- b. a. Three phases exist in equilibrium at points along the eutectic isotherm
- c. b. Alloy of eutectic composition melts at a constant temperature
- d. a & c
- e. All of them

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