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Flag
question

Which of the following isn't a stage of creep?

- O a. Fracture stage
- b. Constant creep stage
 - O c. Transient creep stage
 - O d. Steady stage creep stage
 - Clear my choice

O c. a & c od. Creep e. fatigue Clear my choice After which point is necking observed? Select one: O a. Ultimate strength O b. Yield strength O c. Fracture point O d. Elastic point What is the relation between fracture toughne Select one: a. Fracture toughness does not depend on b. Fracture toughness increases with increases Settings

P. LINGUIGICE

Mild steel belongs to the following category Select one: a. alloy steel b. low carbon steel c. medium carbon steel d. All of the mentioned e. high carbon steel

Which of the following can be carbon composition of cast iron?

Select one:

a. All of them

b. 0.5%

c. 1.5%

d. 1%

e. 2.5%

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Corrosion can increase fatigue life

Select one:

O True

O False

Which of the following is the property become

Selectione:

a. Strength

b. Malleability

C. Ductility

Mild steel belongs to the following category

Select one:

- a. high carbon steel
- b. alloy steel
- c. medium carbon steel
- d. low carbon steel
- e. All of the mentioned

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

- a. Elastic limit
- b. Proportional limit
- c. All of the mentioned
- d. Tensile strength point
- e. Yeild point

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Slow plastic deformation of metal under a constant stres

Select one:

- 0 a.a&c
- b. Creep
- O c. non plastic deformation
- O d. fatigue
- O e. Endurance

Clear my choice

What is the Eutectic reaction at 1146°C?

- O a. y (0.8 % C) → a (0.025% C) + Fe₃C (6.67% C)
- O b. L (0.53% C) + δ(0.09% C) → γ (0.8 % C)
- C. L (0.53% C) + δ(0.09% C) · ν(0.17% C)

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

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

Not yet Which of the following is the property because of whit -04/6 answered Marked out of Select one: 1.50 a. Strength P Flag question b. Elasticity © c. Ductility od. Malleability Clear my choice Question 10 Not yet What is the Peritectic reaction at 1495°C? answered Marked out of Select one: 1.50 ○ q. L (0.53% C) + δ(0.09% C) → γ (0.8 % C) P Flag question ○ b. v (0.8 % c) → a (0.025% c) + Fe₃C (6.67% c) C. L (0.53% C) + δ(0.10% C) → γ(0.17% C) Od. L (4.3% C) - Y(2.1% C) + Fe₃C (6.67% C) vious page ✓ Mid Exam PROPERTIES OF 0 ĦI

Clear my choice

Question 7

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Not yet answered

Marked out of 1.50

P Flag question What is the Eutectic reaction at 1146°C?

Select one:

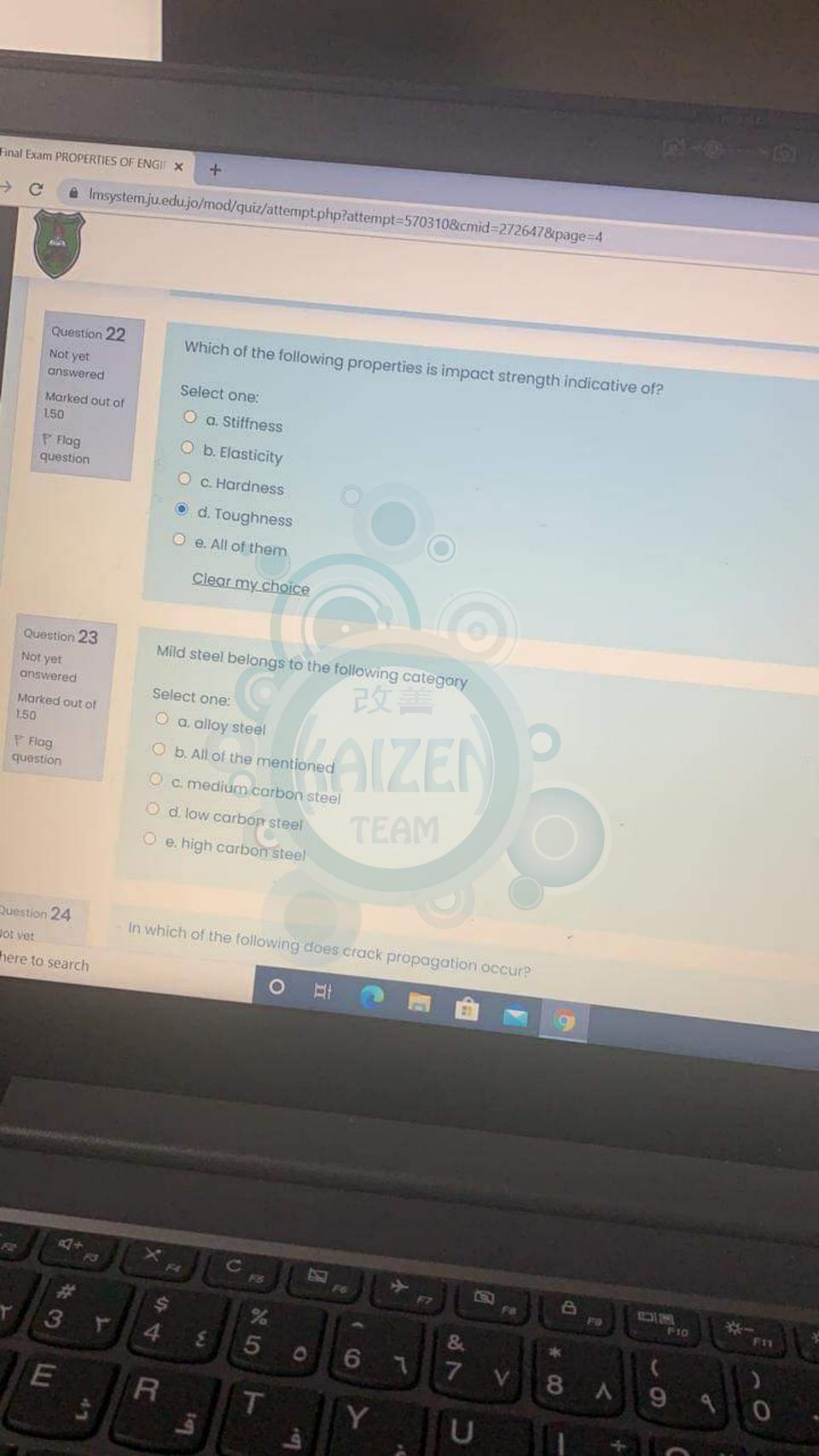
- O a. γ (0.8 % C) $\rightarrow \alpha$ (0.025% C) + Fe₃C (6.67% C)
- b. L (0.53% C) + δ (0.09% C) \rightarrow γ (0.8% C)
- c. L (0.53% C) + δ (0.09% C) $\rightarrow \gamma$ (0.17% C)
- d. L (4.3% C) → γ(2.1% C) ₹ Fe₃C (6.67% C)

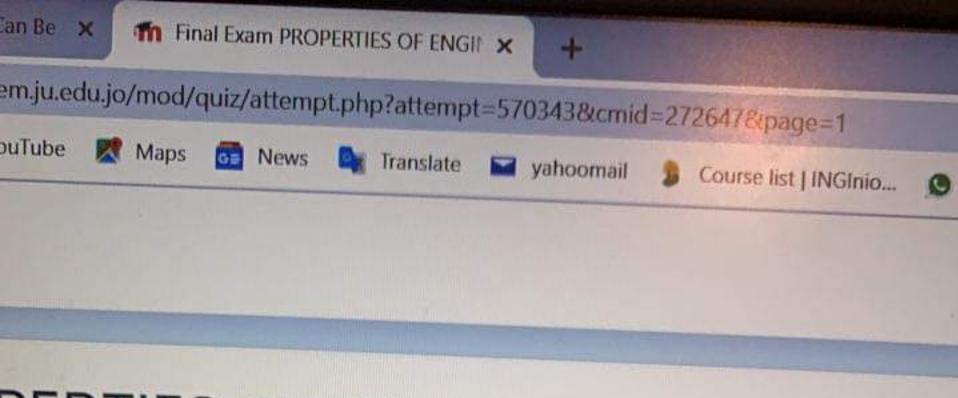
Clear my choice

Question 8

Not yet
answered

Which of the following is the most common type of failure in industry?





PERTIES OF ENGINEERING MATER

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PROPERTIES OF ENGINEERING MATERIALS

General

Which hardness method can be used to measure hardness of a si

Select one:

- a. Vickers
- O b. Shore
- C. Rockwell
- od. Knoop
- e. Rockwell

Clear my choice

What is Eutectoid reaction at 727°C?

Select one:

- □ a. γ (0.8 % C) → α (0.025% C) + Fe₃C (6.67% C)
- b. L (0.53% C) + 8(0.09% C) y(0.17% C)



Settings



Brittle fracture is more dangerous than ductile fracture because

Select one:

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



Which of the following is the property because of which a material can be drawn into wires? Select one:

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



Corrosion can increase fatigue life.

Select one:

True

False

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Flag estion Up to which point on the stress-strain curve is Hooke's law valid?

Select one:

- a. Fracture point
- b. Elastic limit
- c. Proportionality limit
- d. Yield point
- e. None

Clear my choice

Which hardness method can be used to measure hardness of a single gra

a. Shedi stress
b. Ultimate stress
c. Tensile stress
d. Working stress

A measure of Rockwell hardness is the

Select one:

- a. Surface area of indentation
- O b. Projected area of indentation
- O c. Depth of penetration of indenter
- O d. All of the mentioned

Clear my choice

O e. Height of rebound

Up to which point on the stress-strain curve i

Select one:

a. Proportionality limit



Settings

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Which of the following is the numerator of factor safety formula?

Select one:

- a. Tensile stress
- b. Ultimate stress
- c. Shear stress
- d. Working stress

Buckling in a column occurs in the material due to which of the following forces?

- a. Compressive
- b. Shear
- c. It doesn't occur due to a force
- d. Tensile

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question

- O a. L (0.53% C) + 0(0.00% ○ b. L (0.53% C) + δ(0.09% C) → γ (0.8 % C)
- c. L (4.3% C) → $\gamma(2.1\% C)$ + Fe₃C (6.67% C)
- Od. y $(0.8 \% C) \rightarrow \alpha (0.025\% C) + Fe₃C <math>(6.67\% C)$

Clear my choice

Question 12

Not yet answered

Marked out of 1.50

P Flag question Engineering stress-strain curve and True stress-strain curve are equal up to

Select one:

- a. All of the mentioned
- b. Tensile strength point
- o c. Yeild point
- O d. Proportional limit
 - e. Elastic limit

Clear my choice

Jaho Vound's modulus is given to 7e10. What will be

Stainless steel is so called because of its _____.

Select one:

- a. Brittleness
- b. High corrosion resistance
- c. High ductility
- d. High strength

How is brittleness related to impact strength?

- a. Brittleness is inversely proportional to a square of impact strength
- b. Brittleness is directly proportional to a square of impact strength
- c. Brittleness is inversely proportional to impact strength d. Brittleness is directly proportional to impact strength

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Ductility is measured in terms of

Select one:

- O a. Ultimate tensile strength
- b. Percentage elongation
- C. Modulus of toughness
- Od. Modulus of resilience
- () e. All of the mentioned

Clear my choice

Arrange the following in increasing ord

What is the Eutectic reaction at 1146°C?

Select one:

a. L (0.53% C) +
$$\delta$$
(0.09% C) →

b. L (4.3% C)
$$\rightarrow \gamma$$
(2.1 % C) + Fe3C

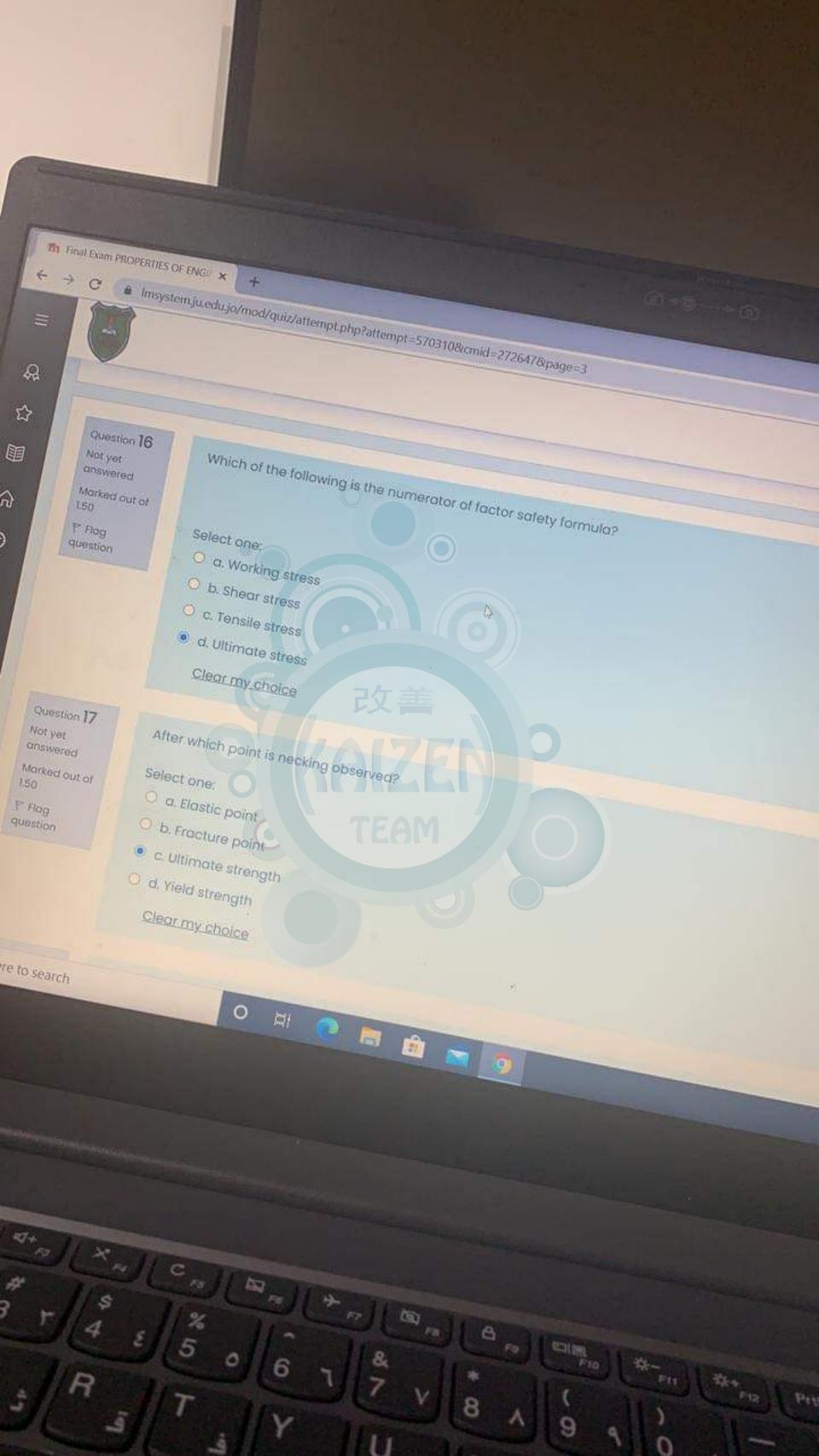
c.
$$\gamma$$
 (0.8 % C) \rightarrow α (0.025% C) +

Which of the following is the most common type of failure in industry?...

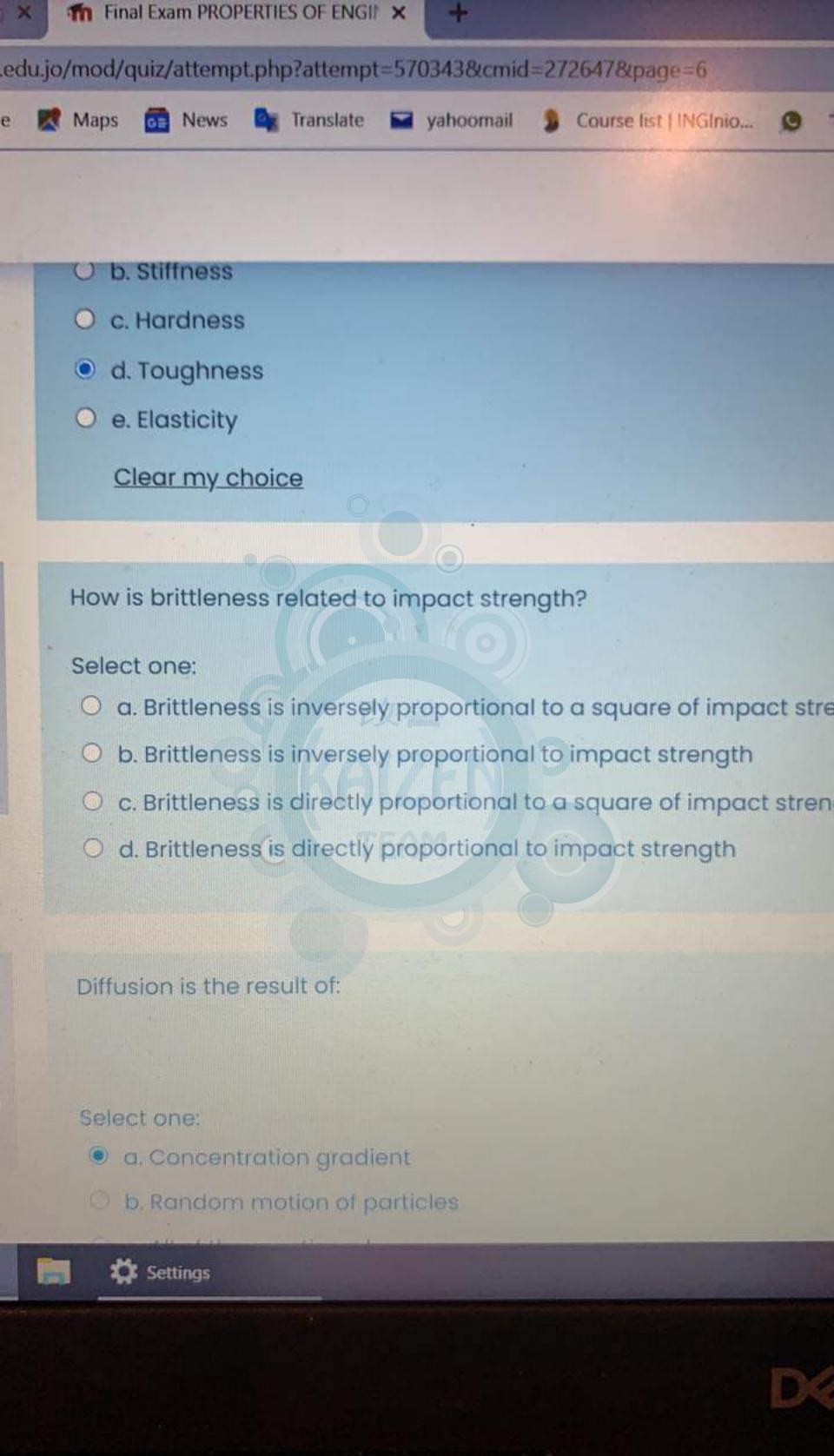
Fatigue

Which hardness method can be used to measure hardness of a single grain

- a. Shore
- b. Knoop
- c. Vickers
- d. Rockwell
- e. Rockwell



ERTIES OF ENGIL X lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=570310&cmid=272647&page=5 stion 27 Ductility is measured in terms of yet wered ced out of Select one: g a. Modulus of resilience tion O b. All of the mentioned c. Modulus of toughness O d. Ultimate tensile strength e. Percentage elongation Clear my choice on 28 Buckling in a column occurs in the material due to which of the following Select one: out of O a. It doesn't occur due to a force O b. Tensile O c. Shear d. Compressive Clear my choice 29 In which of the stages, do we observe a constant deformation rate? search 0 計





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Question 31

Not yet answered

Marked out of 1.50

P Flag question What is the relation between fracture toughness and thickness?

Select one:

- a. Fracture toughness decreases with increase in thickness
- b. Fracture toughness increase linearly with an increase in thickness
- Oc. Fracture toughness does not depend on the thickness
- d. Fracture toughness increases with increase in thickness
 Clear my choice

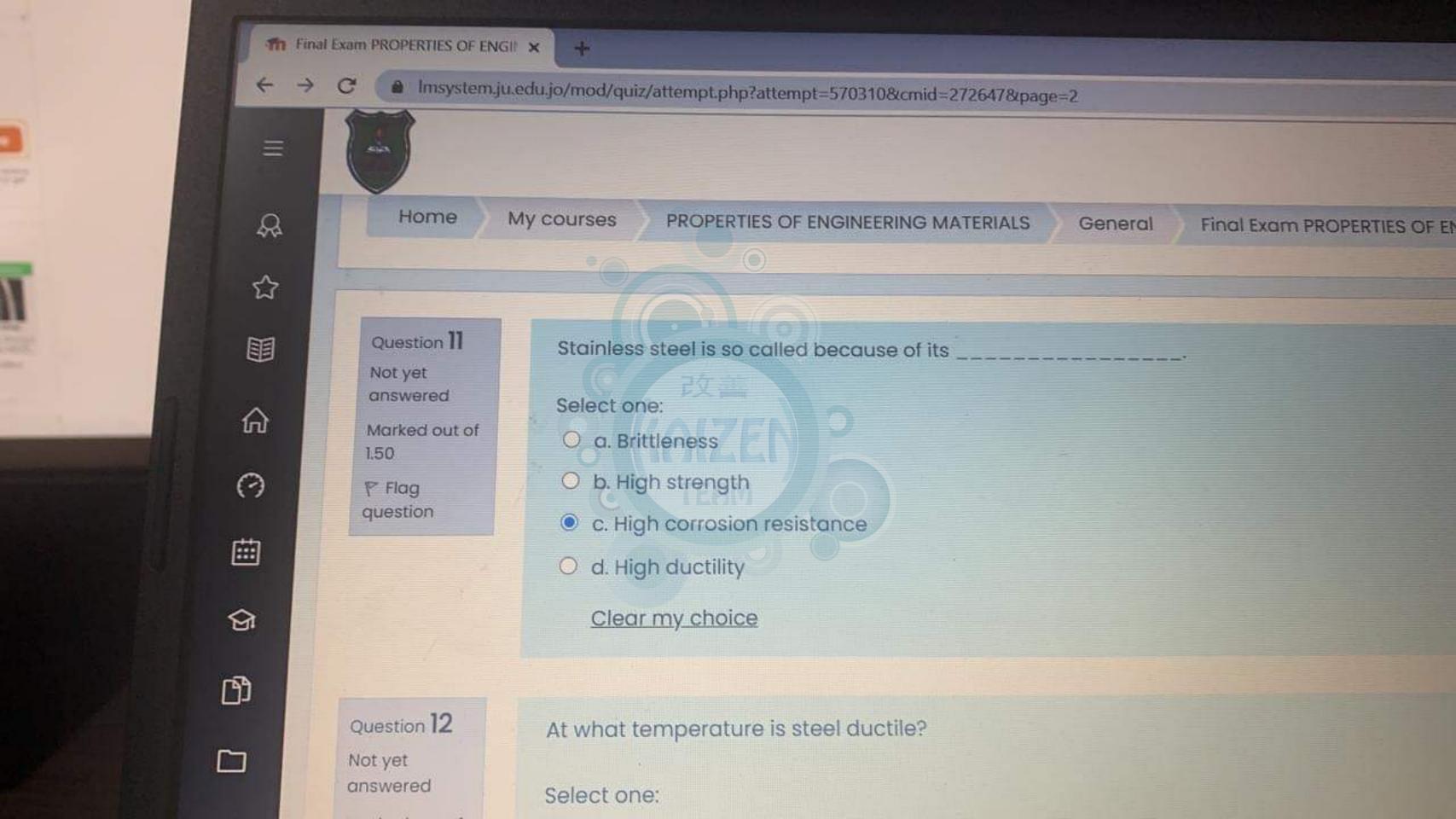
Question 32

Not yet answered

Marked out of 1.50

P Flag question The S-N curve for mild steel never becomes a horizontal line.

- O True
- False



What is Eutectoid reaction at 727°C?

Select one:
a. L
$$(0.53\% \text{ C}) + \delta(0.09\% \text{ C}) \rightarrow \gamma$$

 $(0.8\% \text{ C})$
b. γ $(0.8\% \text{ C}) \rightarrow \alpha$ $(0.025\% \text{ C}) +$
Fe3C $(6.67\% \text{ C})$
c. L $(0.53\% \text{ C}) + \delta(0.09\% \text{ C}) \rightarrow$
 $\gamma(0.17\% \text{ C})$
d. L $(4.3\% \text{ C}) \rightarrow \gamma(2.1\% \text{ C}) + \text{Fe3C}$
 $(6.67\% \text{ C})$

Question a. Fracture toughness decreases with increase in tribution. b. Fracture toughness increase linearly with an increase in thickness Select one: Not yet answered c. Fracture toughness does not depend on the thickness Marked out of Od. Fracture toughness increases with increase in thickness 1.50 P Flag question The S-N curve for mild steel never becomes a horizontal line. Question 32 Select one: Not yet answered OTrue Marked out of False 1.50 P Flag question

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At what temperature is steel ductile?

Select one:

a. -10 °C

b. -5 °C

c. 4 °C

d. -3 °C

False

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ed out of At what temperature is steel ductile?

Select one:

- a. -5 °C
- b. -10 °C
- O c. 4 °C
- O d. -3 °C

Which of the following isn't a stage of creep?

- O a. Transient creep stage
- O b. Constant creep stage
- C. Fracture stage
- d. Steady stage creep stage

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

Select one:

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

After which point is necking observed?

Select one:

- a. Elastic point
- b. Yield strength
- c. Fracture point
- d. Ultimate strength

Slow plastic deformation of metal under a constant stress is known as

- a. non plastic deformation
- b. Creep
- c. fatigue
- d. a & c
- e. Endurance

A measure of Rockwell hardness is the

- a. Height of rebound
- b. Surface area of indentation
- c. All of the mentioned
- d. Depth of penetration of indenter
- e. Projected area of indentation

Up to which point on the stressstrain curve is Hooke's law valid?

Select one:

- a. Fracture point
- b. Proportionality limit
- c. Elastic limit
- d. None
- e. Yield point

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

- a. Diamond, topaz, talc, gypsum
- b. Gypsum, topaz, talc, diamond
- c. Talc, gypsum 3z, diamond d. Topaz, gypsui. 3lc, diamond

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Necking occurs in which of the following fractures?

- o. Fatigue
- O b. Ductile fractures
- O c. Brittle fracture
- d. It doesn't occur during fracture





















News





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Course list | INGInio

- a. γ (0.8 % C) → α (0.025% C) + Fe₃C (6.67% C)
- b. L $(0.53\% C) + \delta(0.09\% C) \rightarrow \gamma(0.17\% C)$
- c. L (4.3% C) → γ(2.1% C) + Fe₃C (6.67% C)
- d. L (0.53% C) + δ (0.09% C) $\rightarrow \gamma$ (0.8 % C)

Clear my choice

Which of the following is the numerator of factor safety form

Select one:

- a. Shear stress
- b. Ultimate stress
- O c. Tensile stress
- d. Working stress

Clear my choice

A measure of Rockwell hardness is the

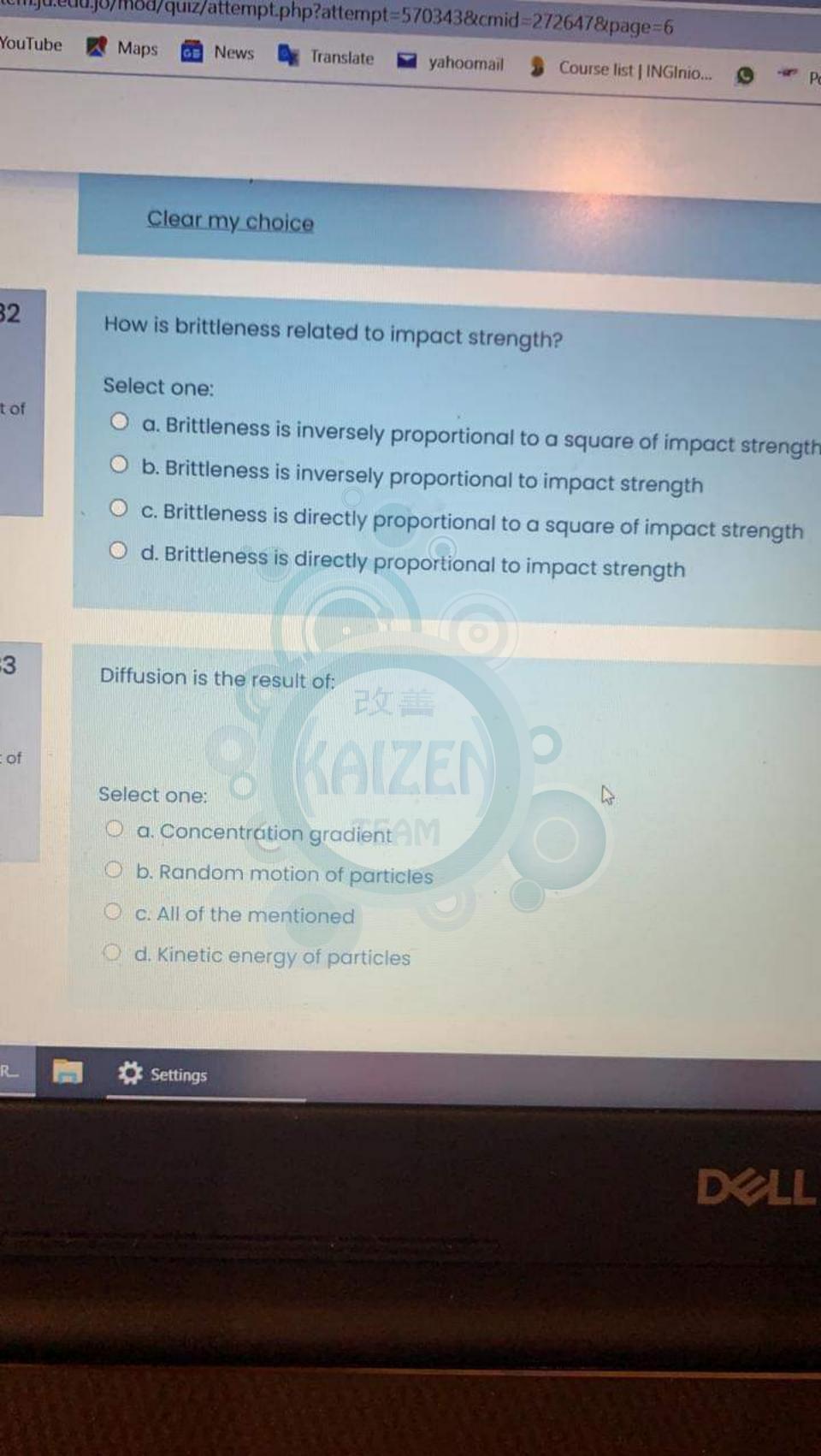
Select one:

a. Surface area of indentation





Settings



The following types of materials are usually the most ductile

Select one:

- a. Hexagonal close packed lattice
- b. a,b&c
- c. Face centered cubic lattice
- d. All of the mentioned
- e. Body centered cubic lattice

Ductility is measured in terms of

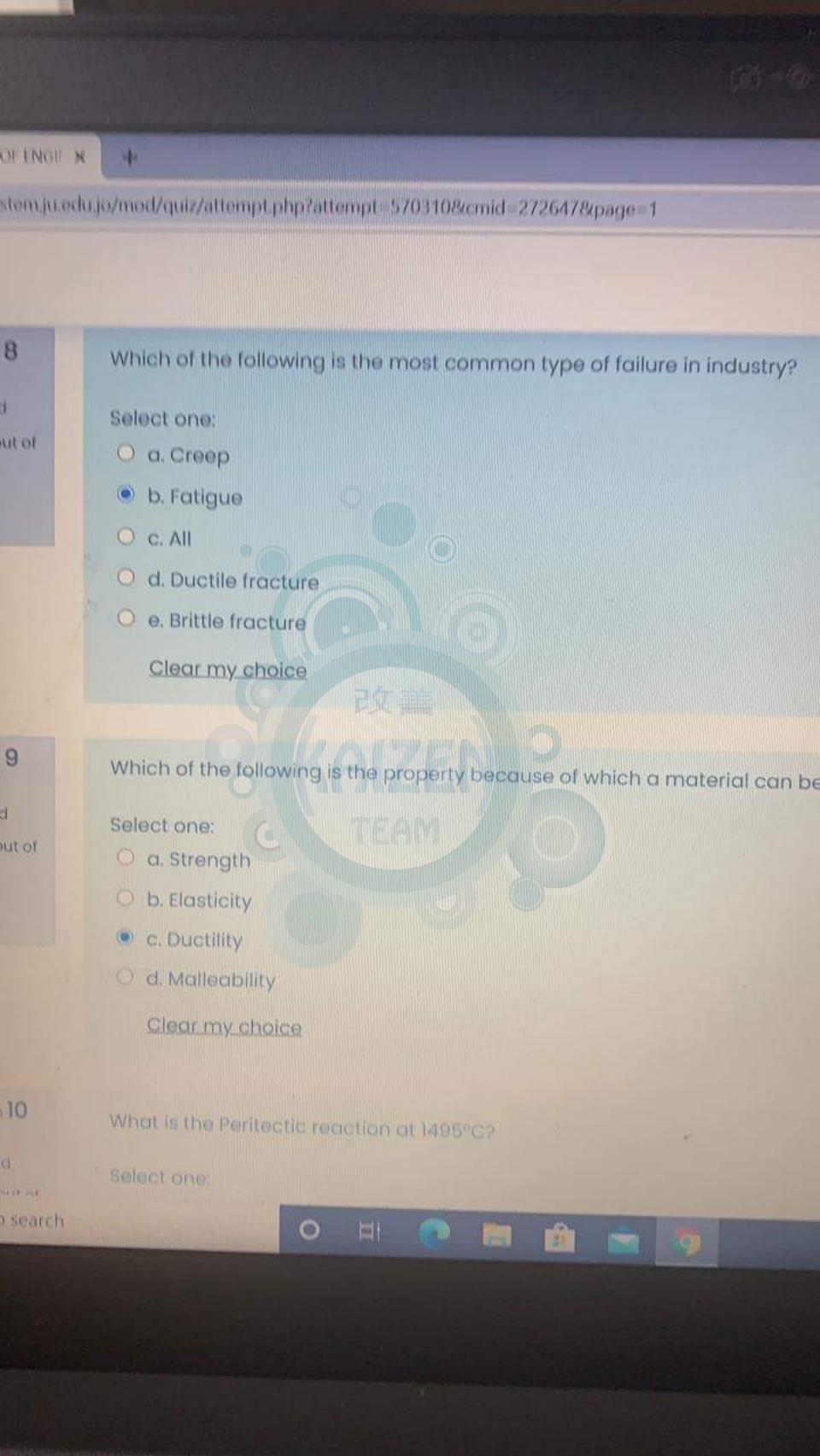
Select one:

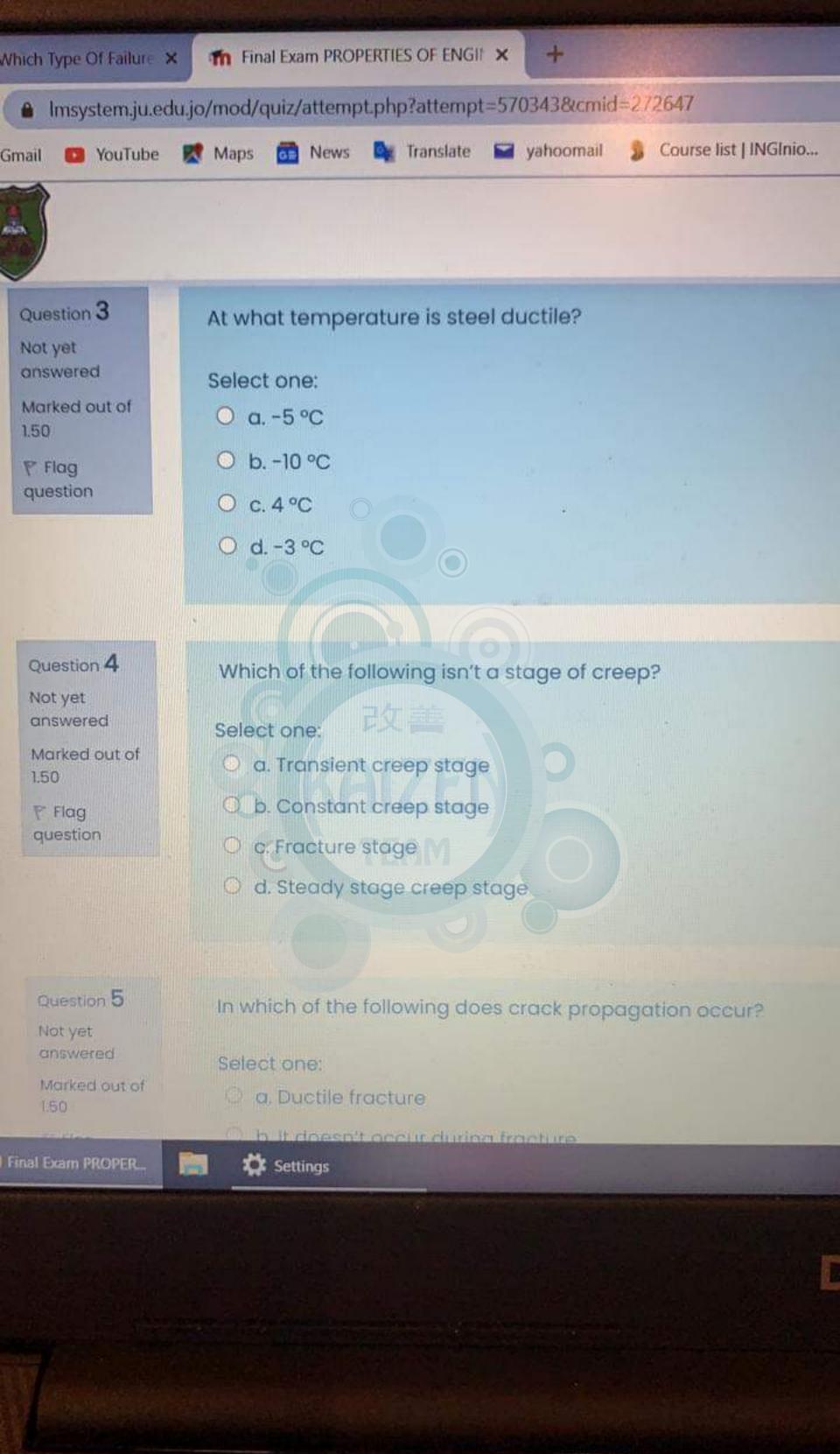
- a. Percentage elongation
- b. Ultimate tensile strength
- c. Modulus of resilience
- d. All of the mentioned
- e. Modulus of toughness

Which of the following properties is impact strength indicative of?

- a. Stiffness
- b. Toughness
- c. Hardness
- d. Elasticity
- e. All of them

-Diffusion is the result of: Question 33 Not yet answered Select one: Marked out of O a. All of the mentioned b. Kinetic energy of particles 1.00 O c. Random motion of particles P Flag question d. Concentration gradient trace-strain curve and True stress-strain curve are equal Clear my choice





What is the relation between fracture toughness and thickness?

- a. Fracture toughness decreases with increase in thickness
- b. Fracture toughness increase linearly with an increase in thickness
- c. Fracture toughness does not depend on the thickness
 d. Fracture toughness increases with increase in thickness

% C in medium carbon steels ranges from _

Select one:

- a. 0.3 0.6
- b. 0.3 0.4
- All of the mentioned
- d. None
- e. 0.3 0.5

If the Poisson's ratio is given as 0.3 and the Young's modulus is given to 7e10. What will be the value for shear modulus? (v = E/2G - 1)

- a. 3.00e10 N/m2
- b. None
- c. 2.72e10 N/m2
- d. 2.69e10 N/m2
- e. 2.59e10 N/m2 👃



In which of the following does crack propagation occur?

Select one:

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

Diffusion is the result of:

Select one:

- a. Kinetic energy of particles
- b. Concentration gradient
- c. Random motion of particles
- d. All of the mentioned

The S-N curve for mild steel never becomes a horizontal line.

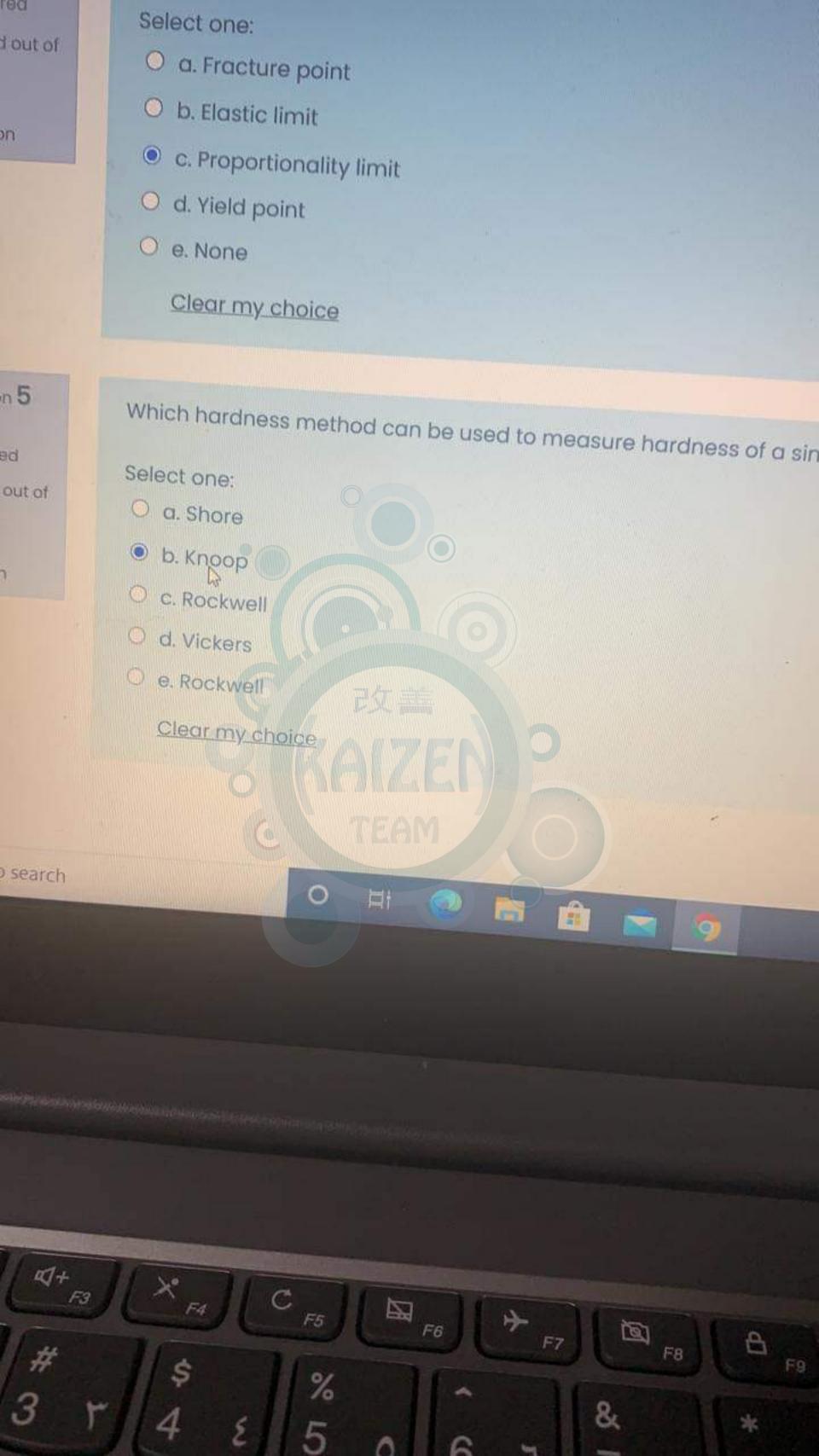
Select one:

True

False

Which of the following isn't a stage of creep?

- a. Steady stage creep stage
- b. Fracture stage
- c. Constant creє 🍟 age
- d Transient creen stage



Which of the following is the most common type of failure in industry?

Select one:

- a. Ductile fracture
- b. Creep
- c. Brittle fracture
- d. All
- e. Fatigue

What is the Peritectic reaction at 1495°C?

- a. L (0.53% C) + δ (0.09% C) $\rightarrow \gamma$
- (0.8 % C)
- b. L (4.3% C) \rightarrow γ (2.1 % C) + Fe3C
- (6.67% C)
- c. L (0.53% C) + δ (0.09% C) \rightarrow
- $\gamma(0.17\% C)$
- d. γ (0.8 % C) \rightarrow a (0.025% C) +
- Fe3C (6.67% C)

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General

Final Exam PROPERTIES OF ENGIN

Question 1

Not yet answered

Marked out of 1.50

P Flag question Which of the following can be carbon composition of cast iron?

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Select one:

- O a. 1%
- O b. 1.5%
- O c. 0.5%
- d. 2.5%
- O e. All of them

Clear my choice

The expression J = M/(A.t), where J, M, A, & t are diffusion flux, mass of diffusing species, cross sectional area, and time respectively is:

Select one:

- a. valid for non steady state diffusion only
- b. valid for both steady and non steady state diffusion
- c. valid for steady-state diffusion only
- d. incorrect

Necking occurs in which of the following fractures?

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

