© a lmos

- a.]moderate
- D. slow
- c. Very fast
- d. no matter

A result of the formation of a Ms-like structure

Select one:

- a. Mo and Cerium
- b. Mg and Cerium
- o. Mn and Mo
- d. Adding Mn and Cerium

Previous page

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1. The limitation of the phase diagram for heat treatment purposes is that

Select one:

- a. Austenite does not exist at room temperature
- O b. it is used only for plain carbon steel
- O c. it does not show the bainite
- O d. it does not show the effect of cooling rate

Clear my choice

1

Dendrite can be seen clearly in the microstructure of the castings if the alloy:

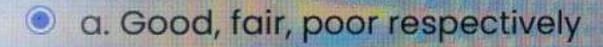
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Weldability of Plain carbon steel, medium, and High carbon steels are:

Select one:



- b. Good, poor, fair respectively
- Oc. Good, fair, fair respectively
- O d. Fair, good, poor respectively

Clear my choice

B

The attrace of the composition till out

Not yet answered

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Question 4

Not yet answered

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Which one of the following is not correct

Select one:

- a. Austenite has FCC structure
- O b. Martensite is a solid solution of carbon in BCC iron
- oc. The martensite which is formed during quenching is too brittle
- O d. Martensite has a BCC structure

If the nose of the TTT diagram for an alloy is at the zero time line,

- a. it is impossible to harden it
- O b. It is difficult to harden it
- C. Special furnace is needed to harden it
- O d. It would be easy to harden it

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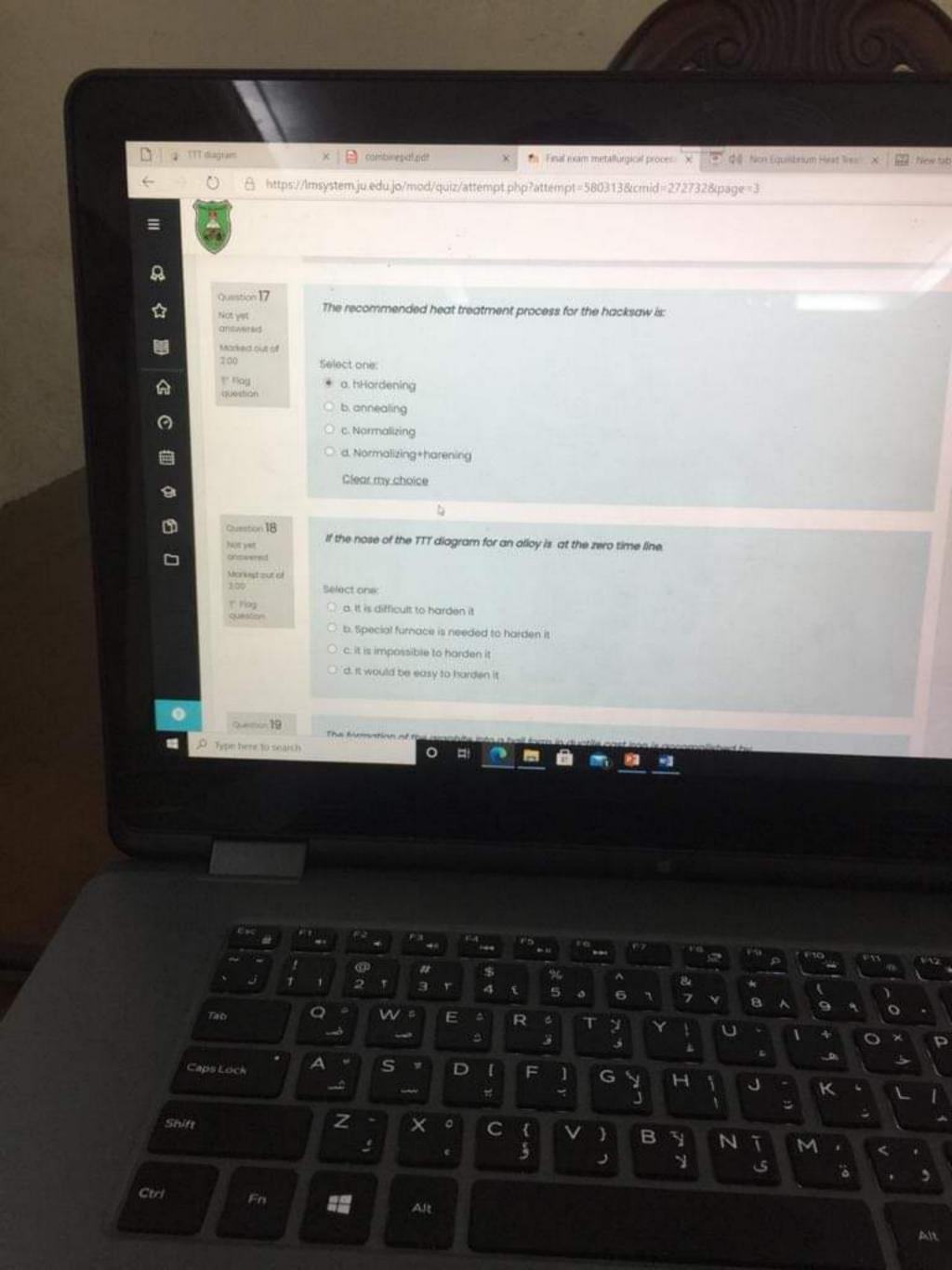
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6. The overaging mechanism in Al-Cu alloys is.

Select one:

- a. A result of Alpha phase formation
- b. A result of the perfection in the lattice
- C. A result of the formation of a Ms-like structure
- d. A result of the distortion in the lattice

Next page



- Oc. It is Ferrite and Cementite! It's just acicular
- d. It is a solid solution of iron and carbon
 Clear my choice

The hardenability is not affected by

Select one:

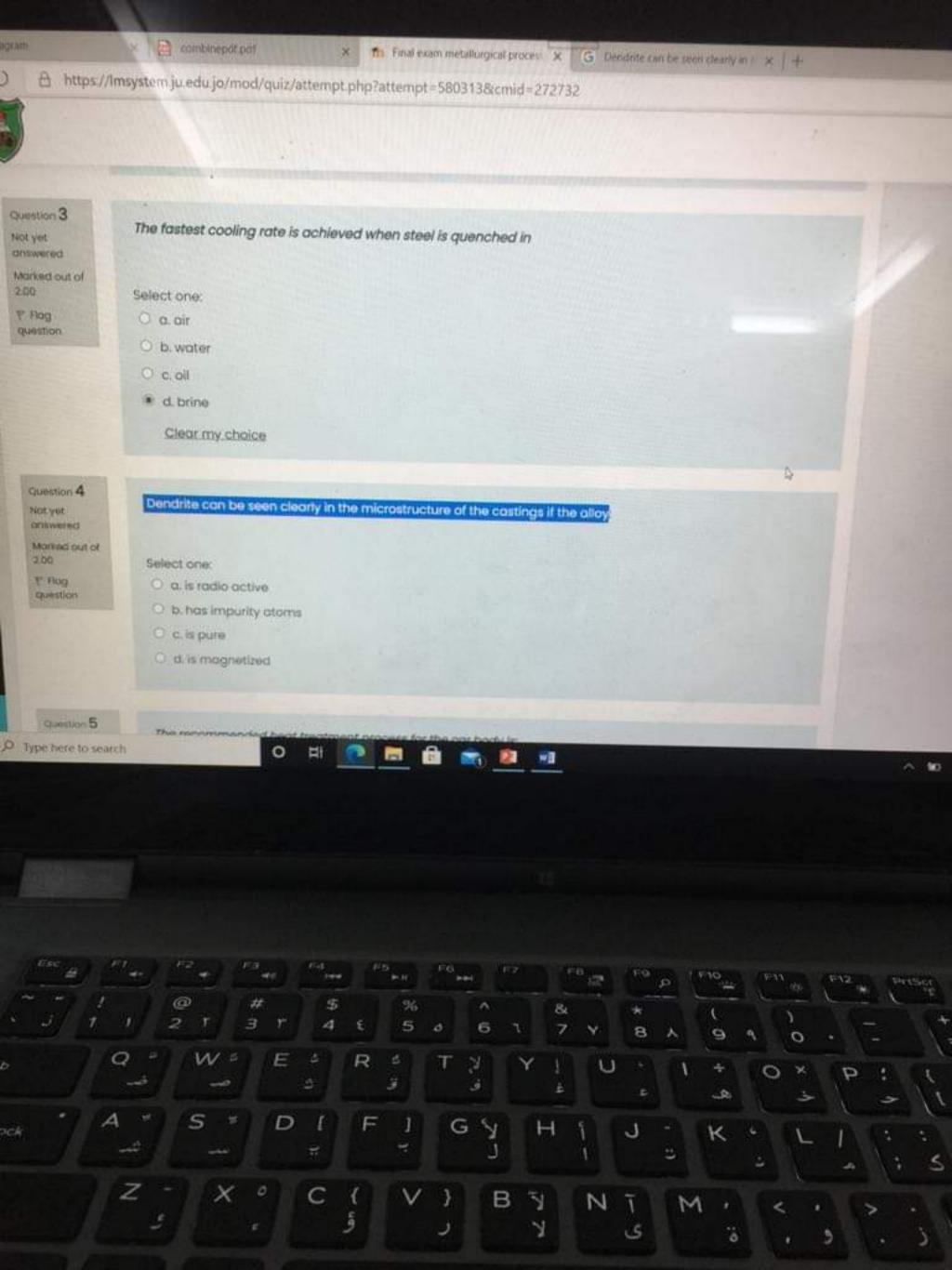
- a. air
- b. critical cooling rate
- o c. quenching medium and method of
- O d. chemical composition of steel

 Clear my choice

page

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Answer saved

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The recommended heat treatment process for the hacksaw is:

Select one:

- a. hHardening
- b. Normalizing
- o c. annealing
- O d. Normalizing+harening

Clear my choice

Which one of the following is not equilibrium heat treatment

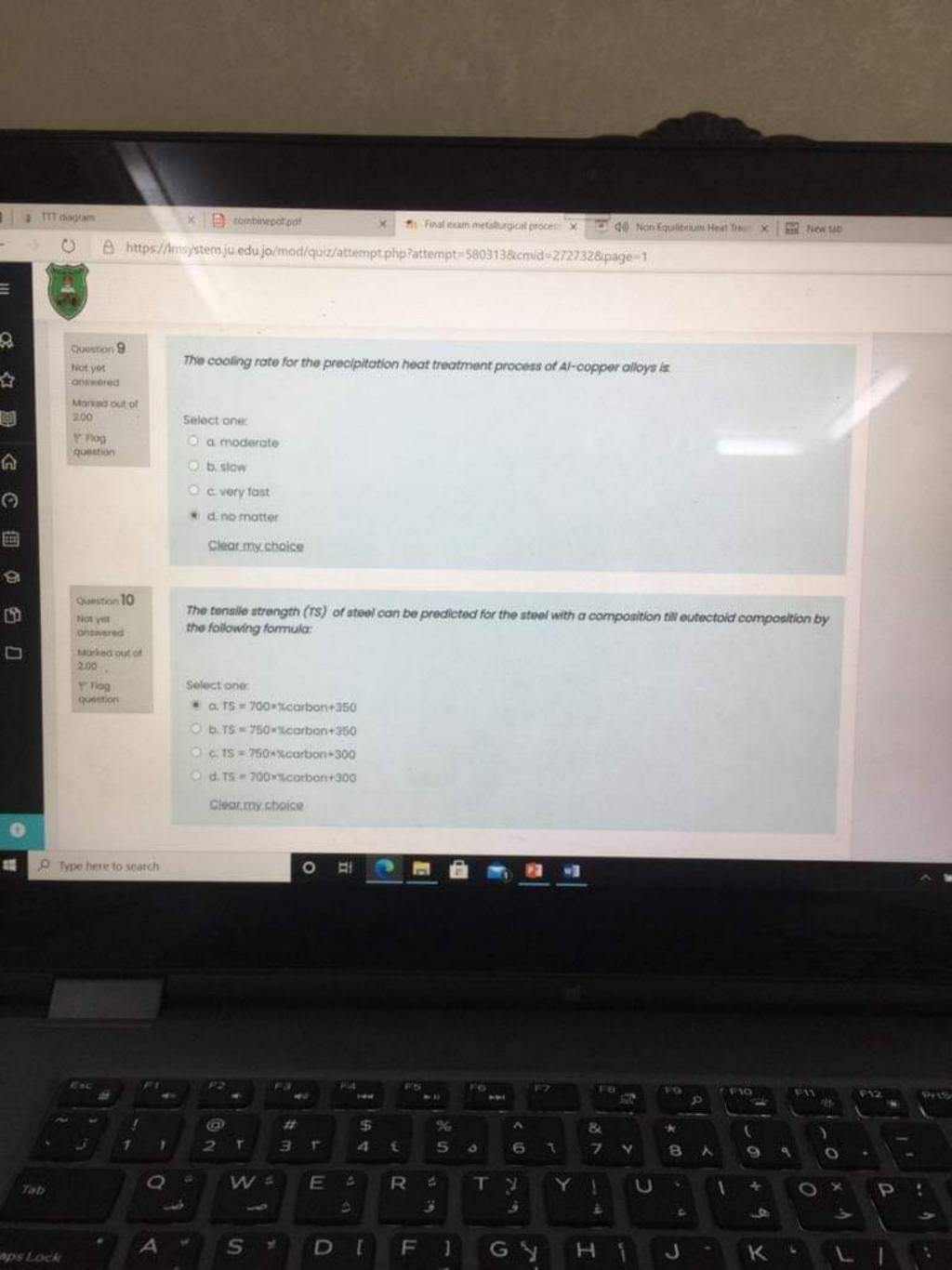
Select one:

- a. annealing
- b. precipitation
- O c. normalizing
- O d. Austenizing

tion 20

The tensile strength (TS) of steel can be predicted for the steel with a composition till entectoid composition by the following formula:

De



















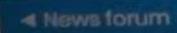
Not yet answered

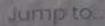
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P Flag question

A result of the formation of a Ms-like structure

- a. Mg and Cerium
- 6 b. Mo and Cerium
- c. Adding Mn and Cerium
- d. Mn and Mo
 - Clear my choice







transformation ends line, then quenching

d. Cooling to a temperature below the border line of P and B, crossing the transformation starts line and soaking to a certain time, then quenching

The main distinct welding zones are.

Select one:

- a. Weld metal, and Knife effect in Base metal
- b. HAZ and Knife effect in Base metal
- c. Weld metal, HAZ, and Base metal
- O d. Weld metal, HAZ, and Knife effect in Base metal

Clear my choice

The hardenability is not affected by

Select one:

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METALLURGICAL PROCESSES

Home

My courses

METALLURGICAL PROCESSES

Final exam Metallurgy

Final e

Question 1

Not yet

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P Flag

question

The main methods to correct the microstructure of castings are:

Select one:

- a. annealing
- b. hardening
- o. normalizing
- od. A and C

Question 2

Not yet.

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Filag

Type of sand, which is preferred by most foundries:

Select one:

a. synthetic

b. mix of them







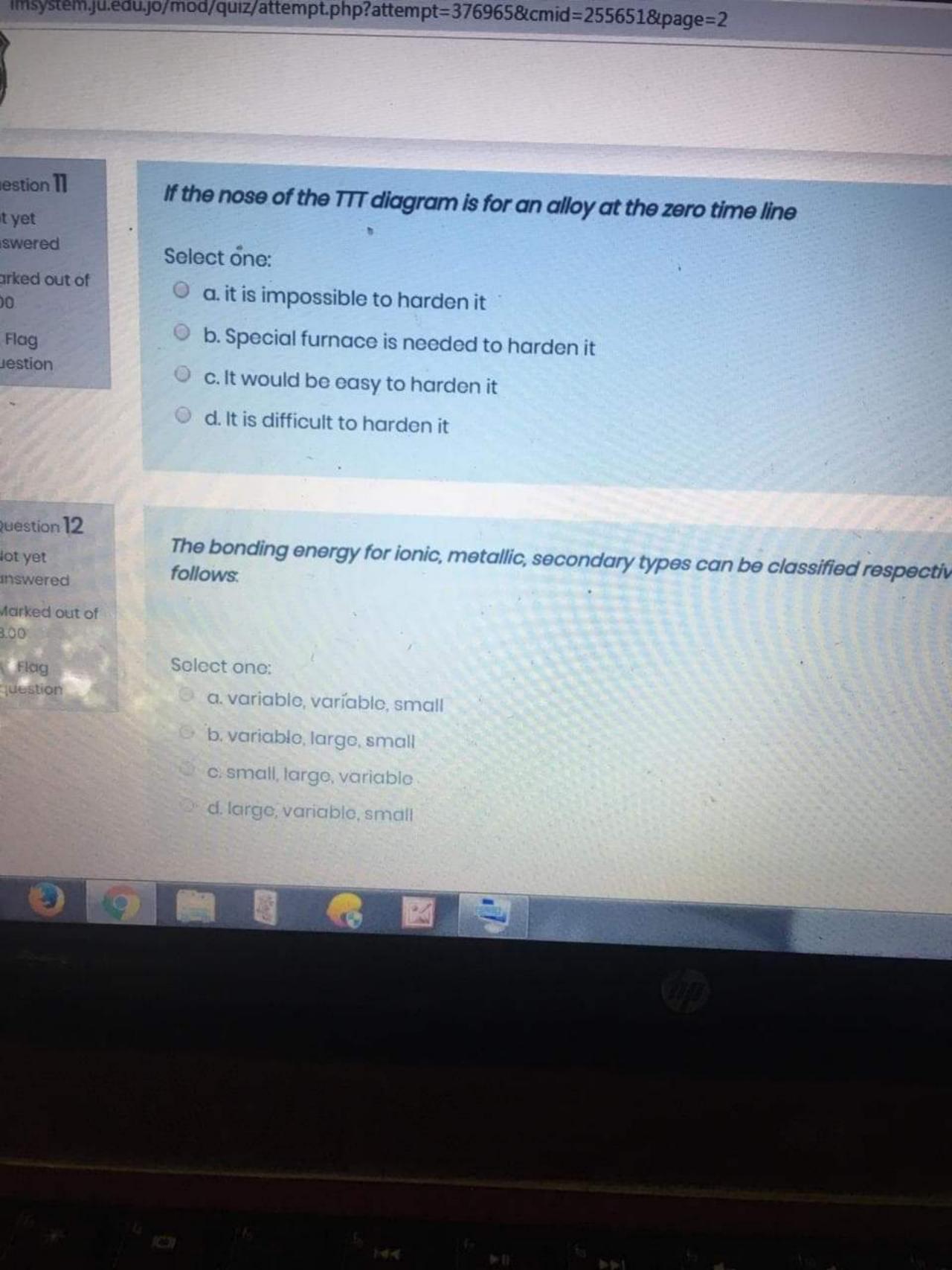












The temperature of the formation of martensite in the CCT.

- a. is less than that for TTT diagram
- b. is more than that for TTT diagram
- c. is shifted to the right
- d. is the same as for TTT diagram



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The fastest cooling rate is achieved when steel is quenched in

Select one:

of

- a. brine
- O b. oil
- O c. air
- Od. water

Clear my choice

أسئلة طرحها الآخرون

Why bainite does not form during continuous cooling in plain carbon steel?

How is bainite formed?

Bainite forms by the decomposition of austenite at a temperature which is above MS but below that at which fine pearlite forms. All bainite forms below the T0 temperature.

ж,

lecture6 < www.phase-trans.msm.cam.ac.uk

Bainite in Steels - Phase Transformations

البحث عن: Hoyk is bainite formed?

1411 1 1 1 1 1 1 1

What is TTT diagram for eutectoid steel?

Clear my choice

Question 7

Not yet answered

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P Flag question The formation of the graphite into a ball form in ductile cast iron is accomplished by.

Select one:

- a. Mg and Cerium
- O b. Mo and Cerium
- O c. Adding Mn and Cerium

Clear my choice

Question 8

Not yet

The hardenability is not affected by

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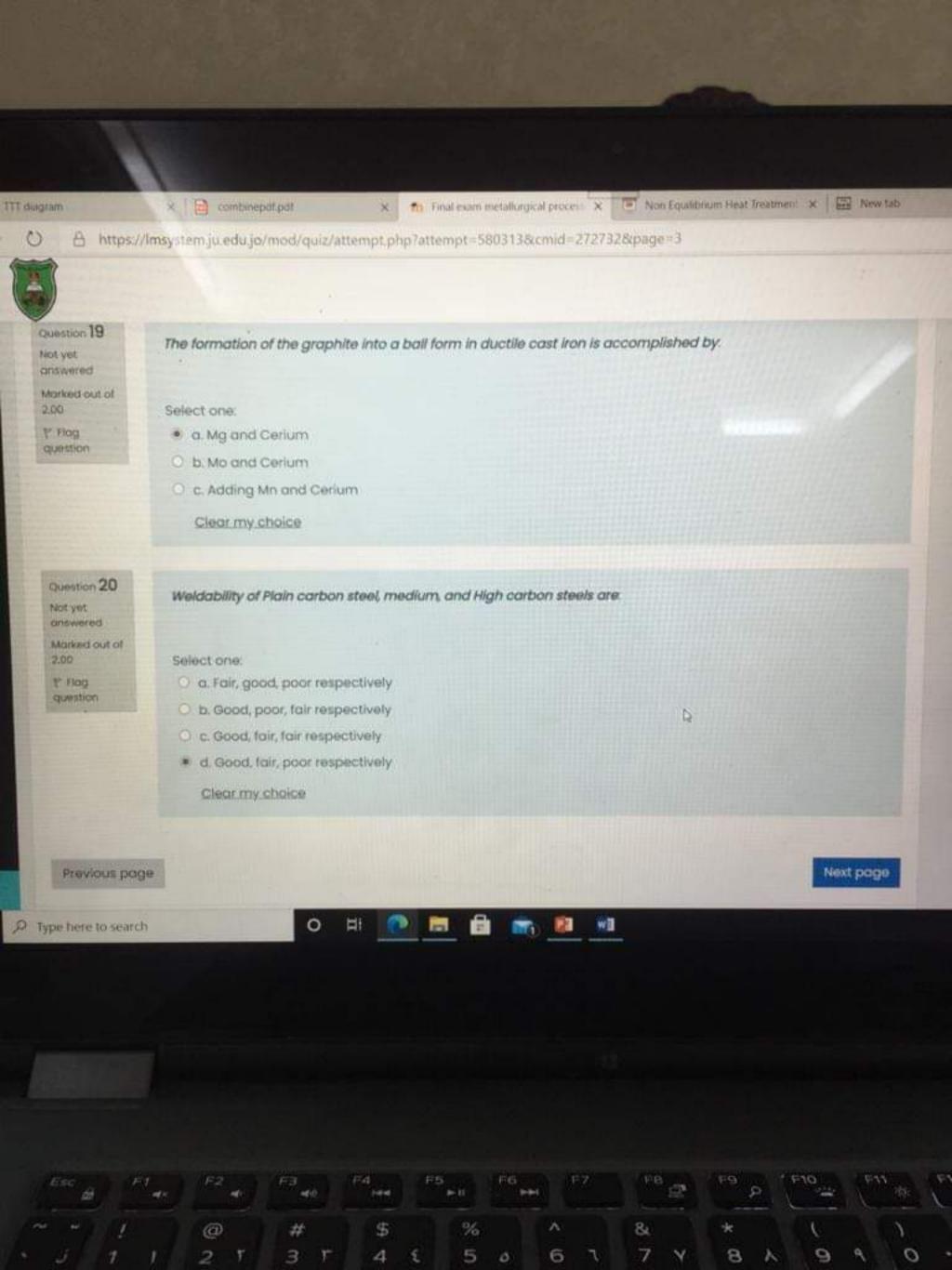
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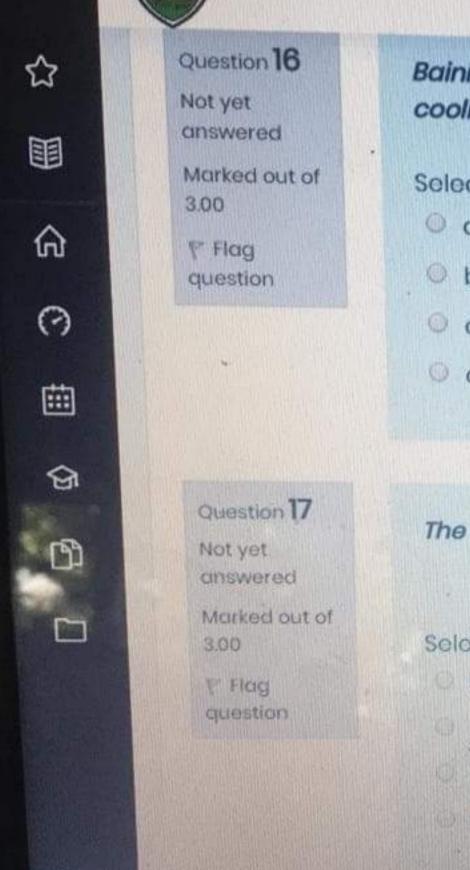
The severity of quenching media from low to high can be ranked as follows:

Solact one:

- a. 5% caustic soda, 20% brine, cold water, animal oil, warm water, animal oil, mineral oil, vegetable oil,
 air, insulating material or furnace
- b. 5% caustic sada, cold water ,20% bring, warm water, animal oil, mineral oil, vegetable oil, air, insulating material or furnace.
- c. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, cold water, warm water.
 - 20% brino, 5% caustic soda
- d. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, warm water, cold water,
 - 20% brine, 5% courstic sodo
 - Clear my choice

n 13 The Ms temperature on the TTT diagram is a function of carbon content as follows: ed out of Select one: a. There is a slight change in Ms temperature m b. The higher the %C, the higher the Ms temperature c. There is no change in Ms temperature d. The higher the %C, the higher the Ms temperature ion 14 The cooling rate for the solution heat treatment process of Al-copper alloys is: ered ed out of Select one: a.]moderate b. slow c. Very fast d, no matter





Bainitic microstructure in eutectoid plain carbon steel can be formed by using continuous cooling diagram if

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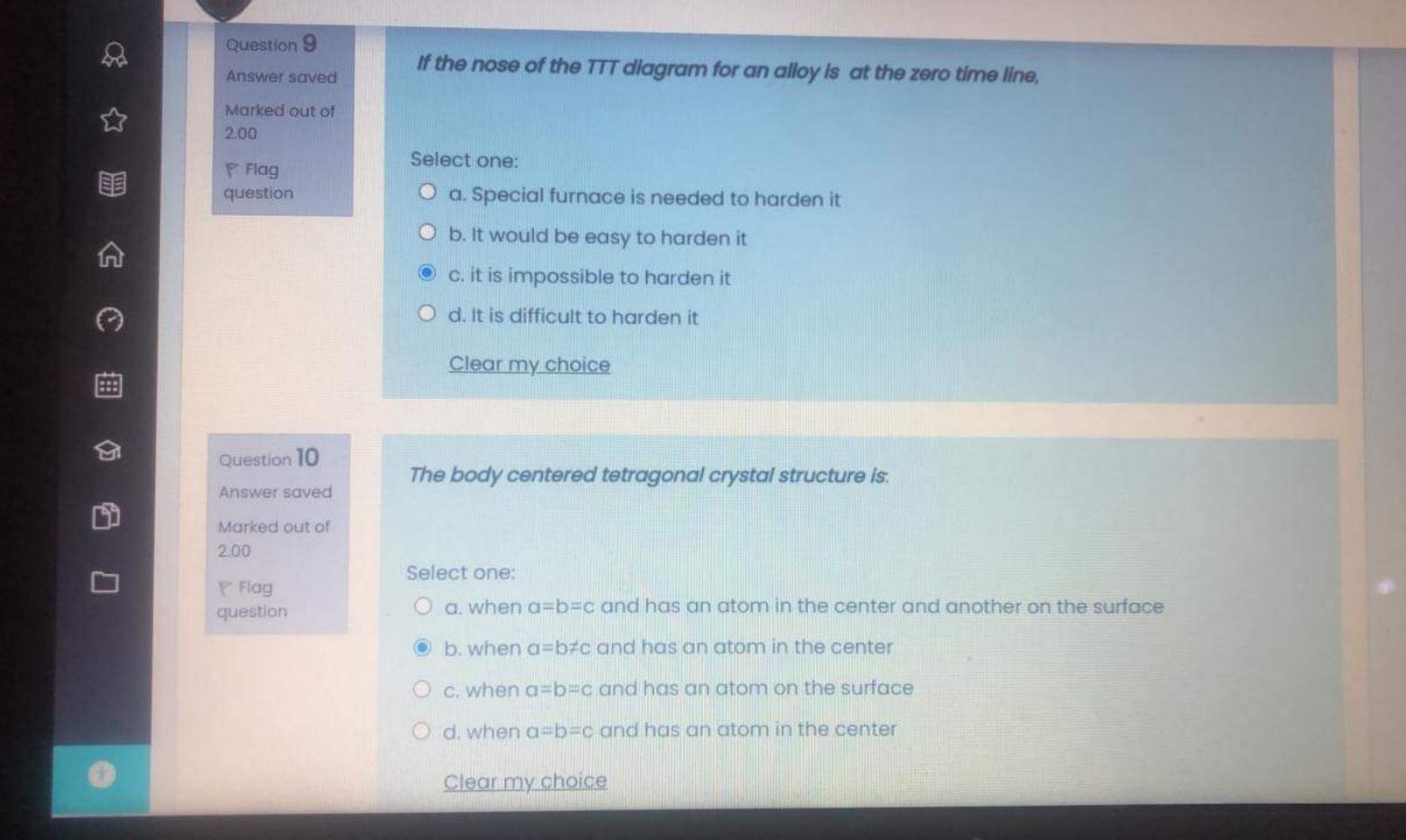
Time

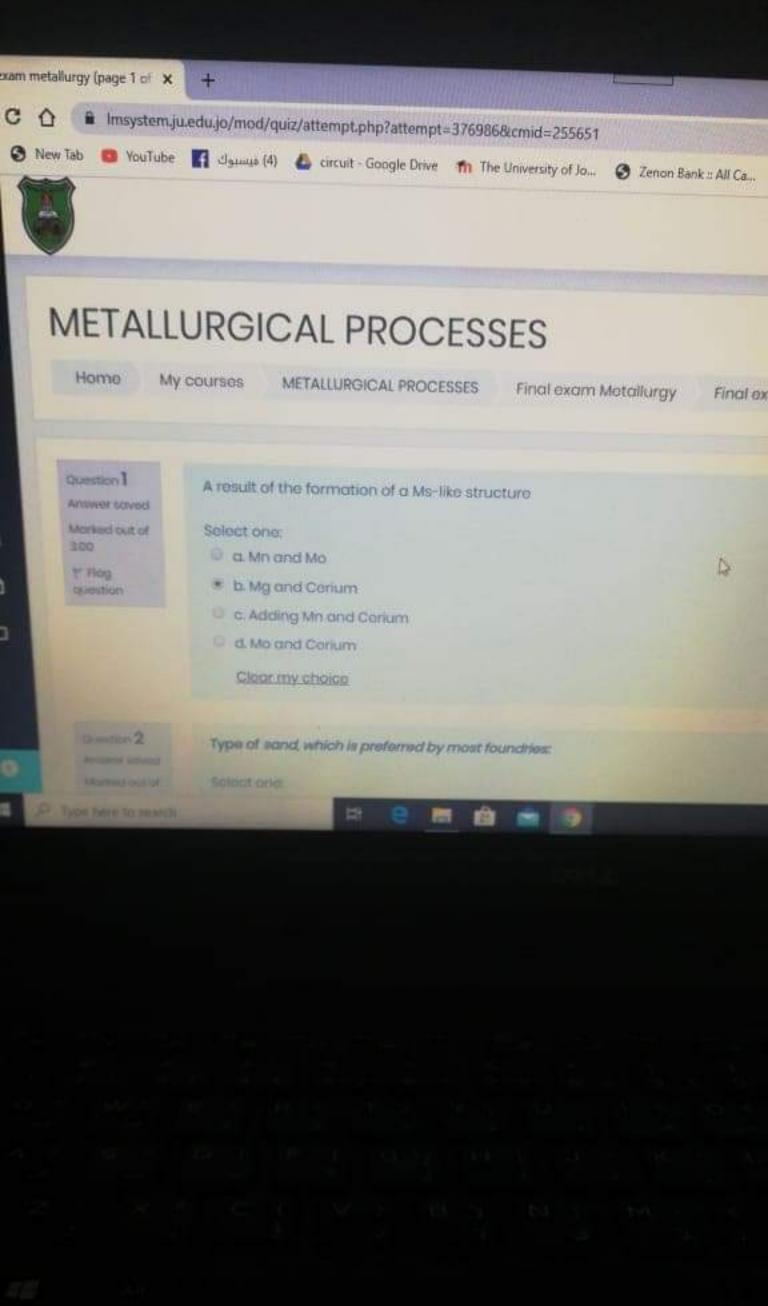
Select one:

- a. the cooling rate goes after the critical point
- b. the cooling rate passes through the critical point
- c. the cooling rate goes before the critical point
- O d. none of the choices

The temperature of the formation of martensite in the CCT:

- a. is the same as for TTT diagram
- b. is less than that for TTT diagram
- c, is shifted to the right
- d is more than that for TTT diagram





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The Ms temperature on the TTT diagram is a function of carbon content as follows:

Select one:

- a. There is no change in Ms temperature
- b. There is a slight change in Ms temperature
- c. The higher the %C, the higher the Ms temperature
- d. The higher the %C, the higher the Ms temperature

The main methods to correct the microstructure of castings are:

Select one:

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Not yet answered

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P Flag question The bonding energy for ionic, metallic, secondary types can be classified respectively as

Select one:

- a. small, large, variable
- b. variable, variable, small
- c. large, variable, small
- d. variable, large, small

Ouestion 7

Not yet answered

Marked out of 3.00

P Flag question The crystalline structure of a-non magnetic, and a- magnetic are:

Select one:

- a. BCC, BCC repectively
- b. FCC, FCC respectively
- O c. FCC, BCC repectively
- O d. BCC, FCC respectively

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Question 5

Not yet onswered

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Hog

The thickness of the shell in shell molding casting process is determined by:

Select one:

- a. the time that the pattern in contact with the mold
- b. the heating up time that is needed to raise the temperature of the pattern in contact with the mold
- O c. A and B
- d. the mounted pattern should be heated to 379 °C

A result of the formation of a Ms-like structure

- a. Mg and Cerium
 - b. Me and Cerium
 - c Adding Mn and Carium

Not yet answered

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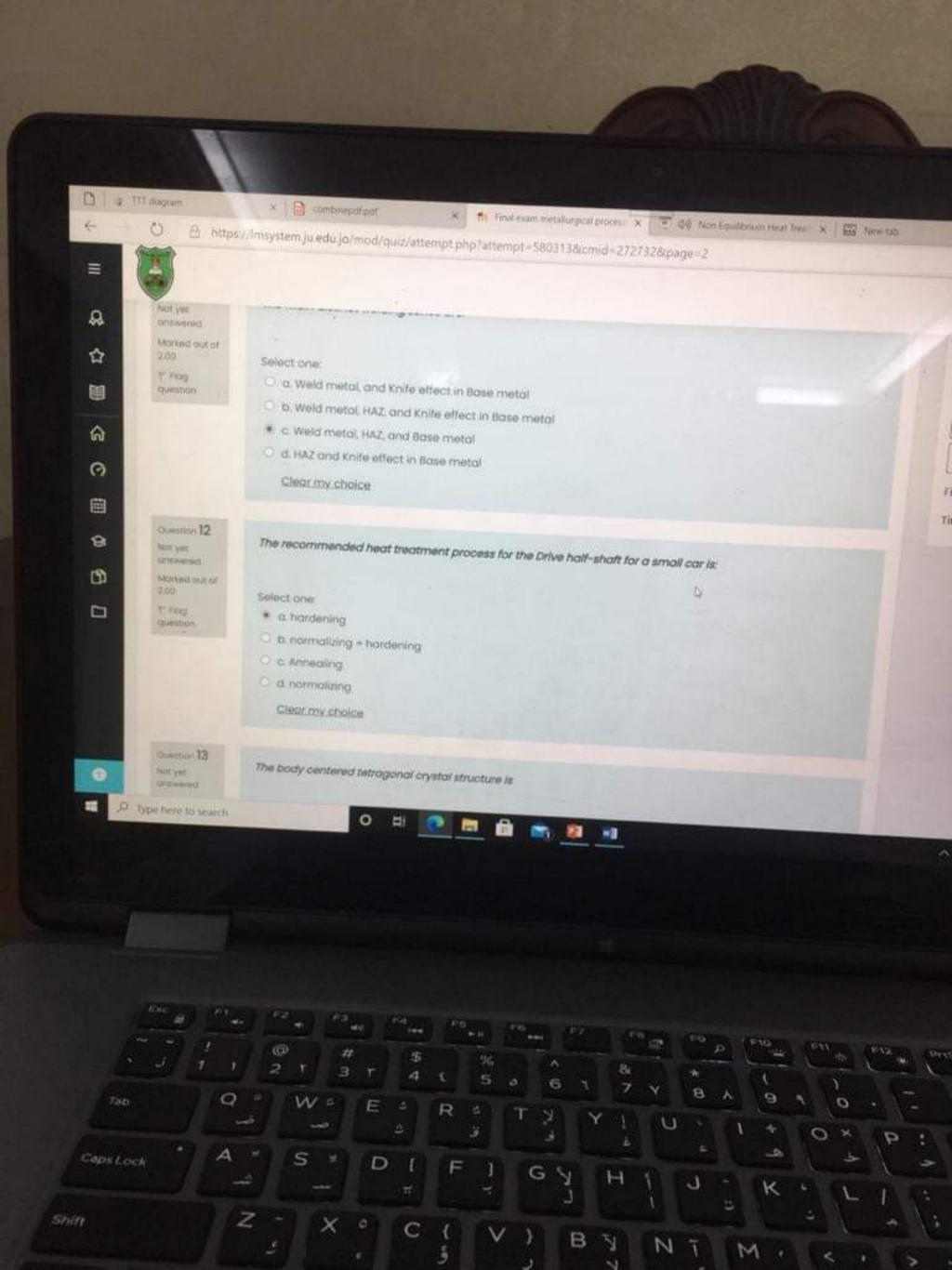
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6. The overaging mechanism in Al-Cu alloys is:

Select one:

- a. A result of Alpha phase formation
- b. A result of the formation of a Ms-like structure
- c. A result of the perfection in the lattice
- d. A result of the distortion in the lattice

Clear my choice



Not yet answered

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F Flag question

Type of sand, which is preferred by most foundries:

Select one:

- a none of the choices
- b. Natural
- c. synthetic
- d. mix of them

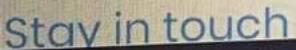
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Next page

■ News forum

Jump to_

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- a. the liquid is sprayed onto the surface and into every cave uniform cooling
- b. you cool the metal in a tank of liquid
- c. none of the choices
- d. the liquid is poured onto the surface and into every cavituniform cooling

Clear my choice

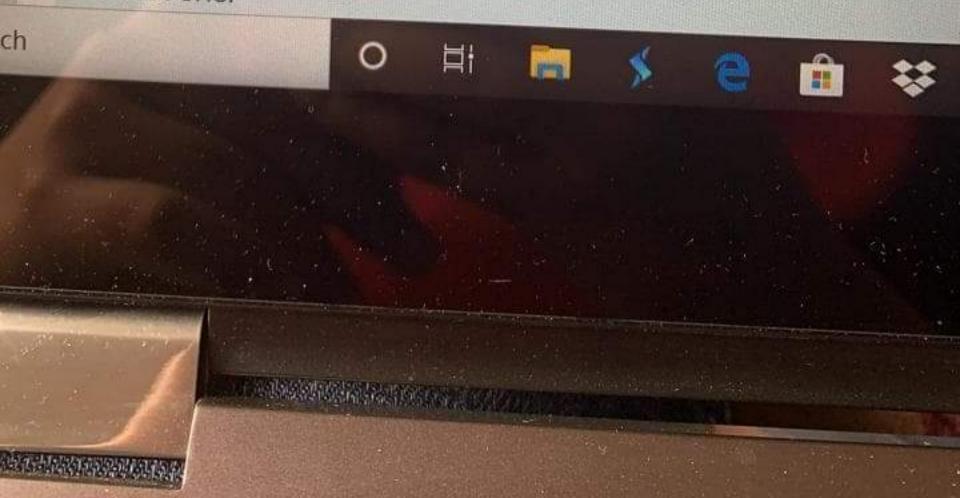
The crystalline structure of a-non magnetic, and a- magnetic a

Select one:

- a. BCC, FCC respectively
- b. FCC, BCC repectively
- c. BCC, BCC repectively
- d. FCC, FCC respectively

Clear my choice

The ascending order of strength based on microstructure is:



Not yet answered

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Bainitic microstructure in eutectoid plain carbon steel can be formed by using continuous cooling diagram if

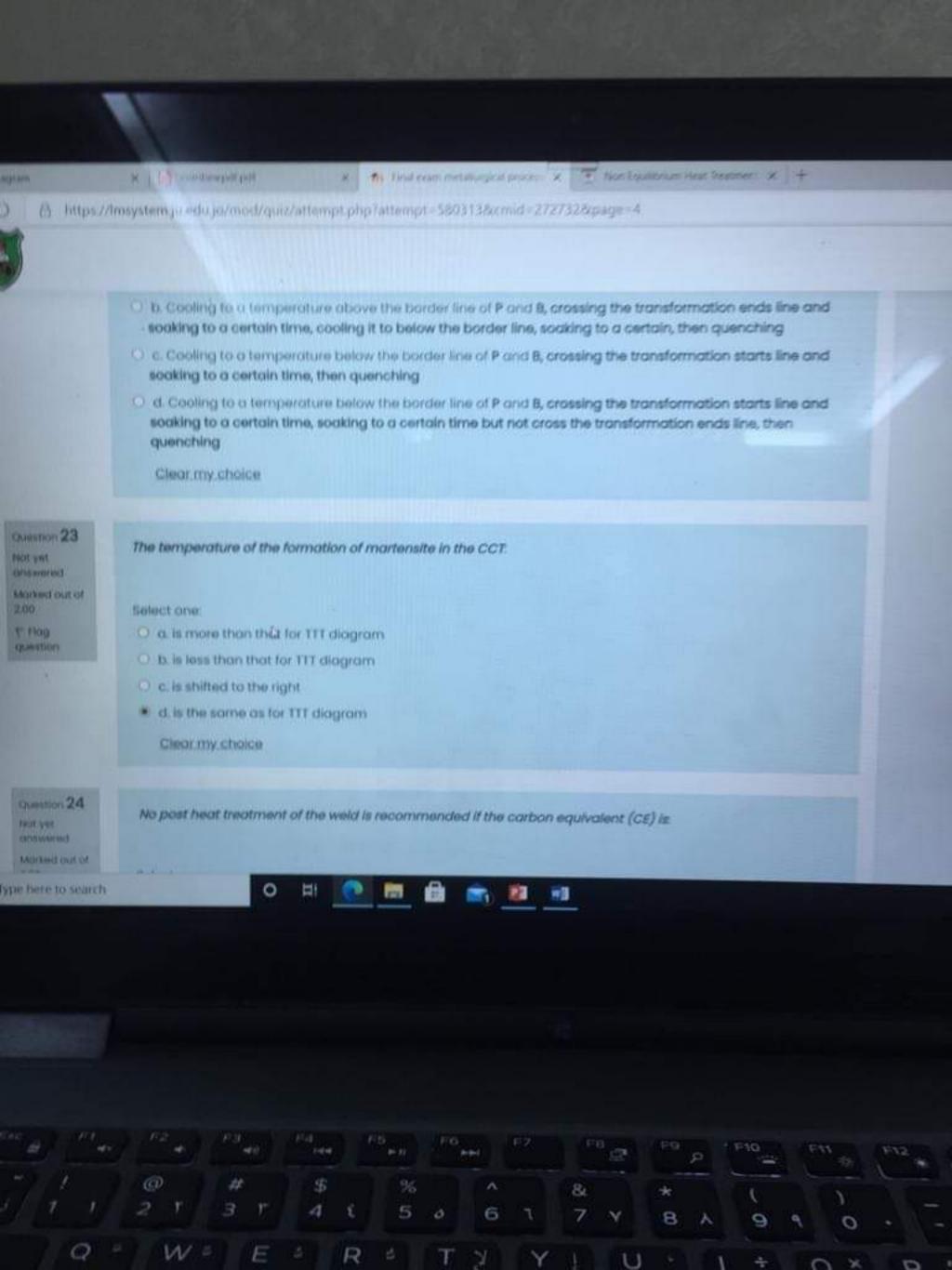
Select one:

- a. the cooling rate goes after the critical point
- b. the cooling rate passes through the critical point
- c. the cooling rate goes before the critical point
- d. none of the choices

Clear my choice

Question 17 Not yet

The temperature of the formation of martensite in the CCT.



Not yet answered

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The ascending order of strength based on microstructure is: Select one:

a. Martensite, spherodite, fine pearlite

b. Spherodite, Tmartensite, martonsite

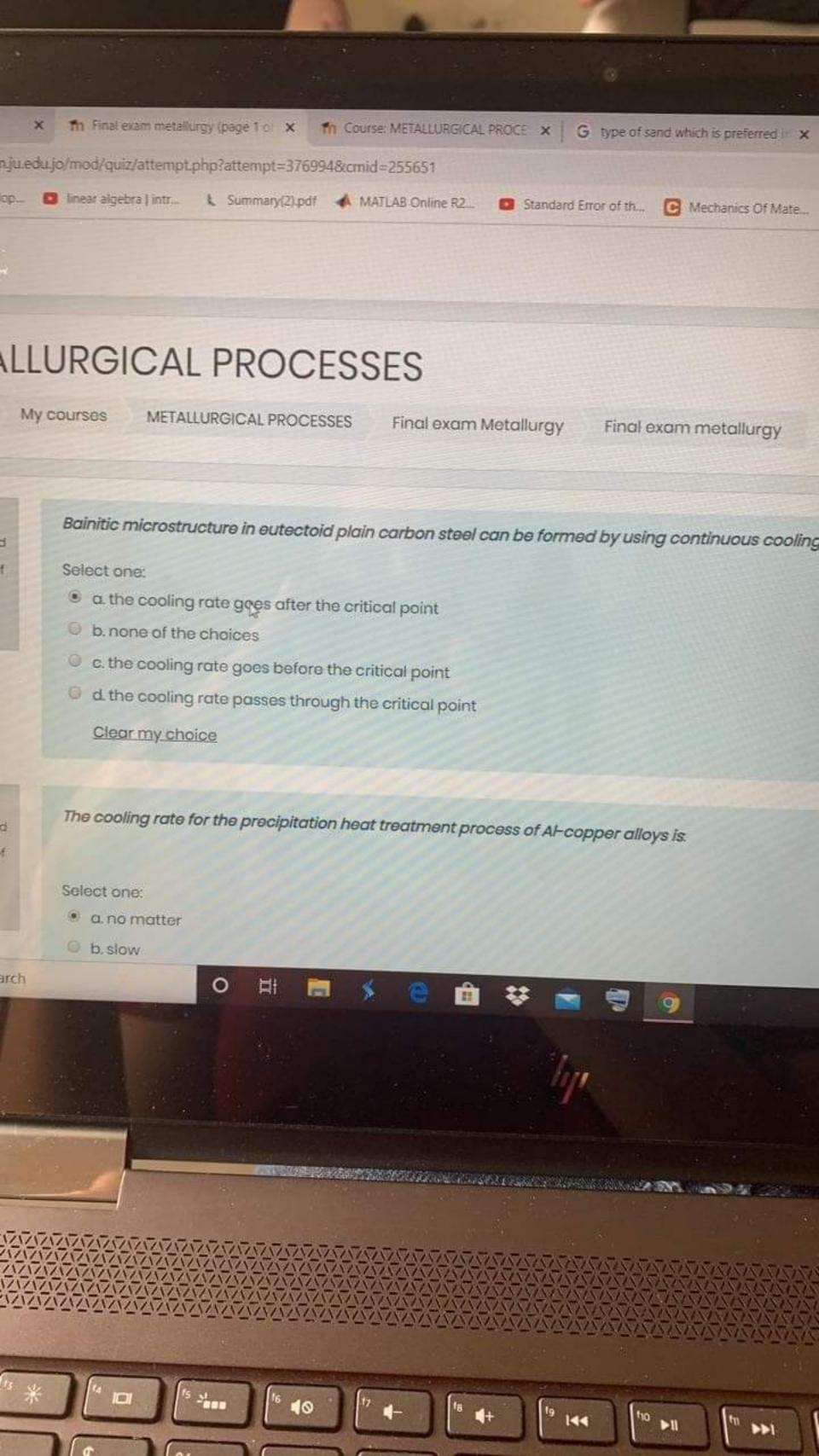
e. T martensite, bainite, fine poarlite

d. fine pearlite, bainite, T martensite

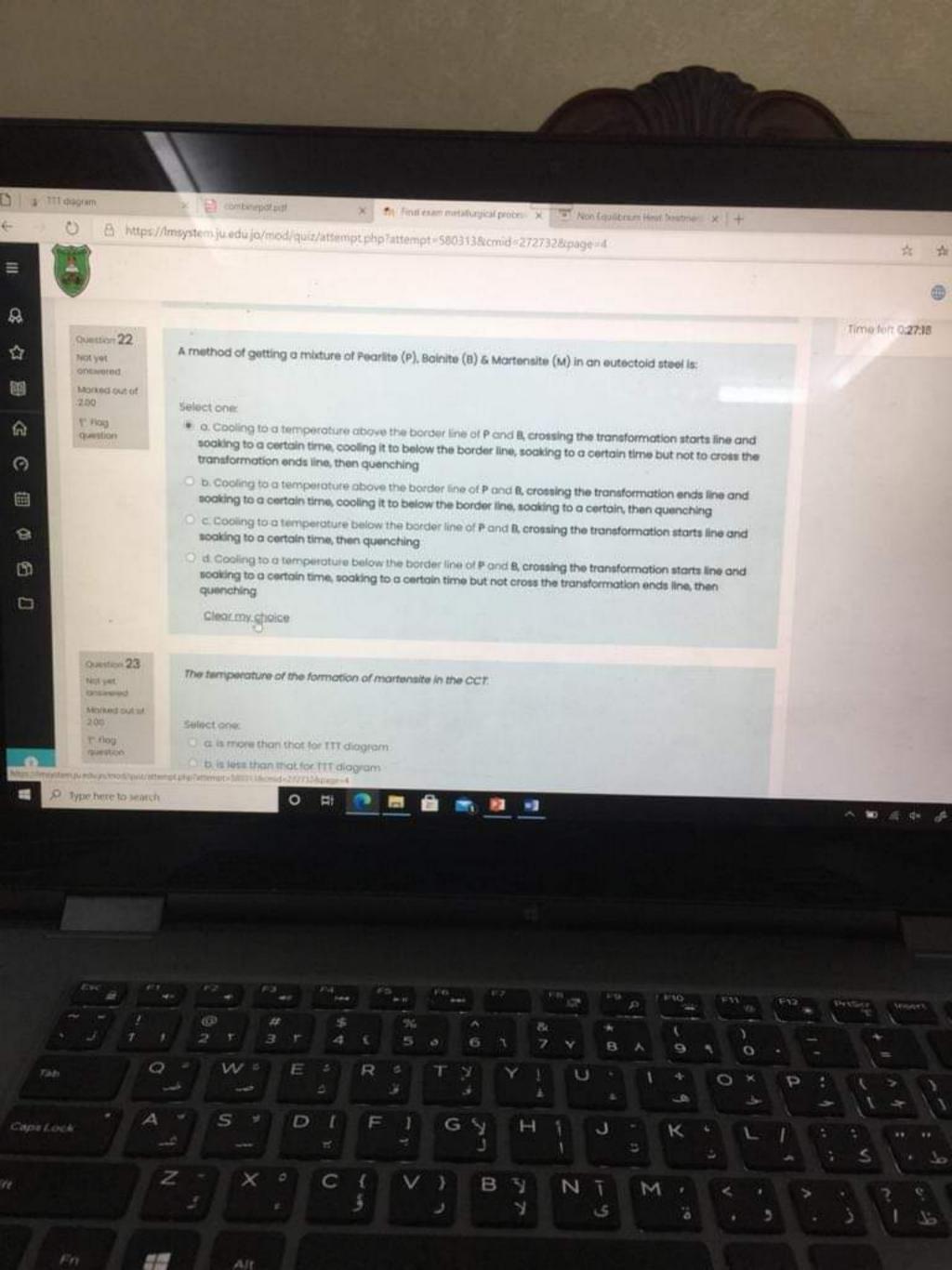
Clear my choice

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Select one: a. A result of the perfection in the lattice b. A result of the distortion in the lattice c. A result of the formation of a Ms-like structure d. A result of Alpha phase formation Clear my choice The recommended heat treatment process for the car body is: Select one: a normalizing + hardening b. normalizing O c. annealing d. Hardening Clear my choice



Answer saved

Marked out of 2.00

P Flag question The body centered tetragonal crystal structure is:

Select one:

- a. when a=b=c and has an atom in the center
- b. when a=b=c and has an atom in the center and another on the surface
- O c. when a=b=c and has an atom on the surface
- d. when a=b≠c and has an atom in the center

Clear my choice

Question 3 Answer saved Marked out of 2.00

P Flag question The hardenability is not affected by

Select one:

- a. quenching medium and method of
- b. air
- c. critical cooling rate
- O d. chemical composition of steel

Clear my choice

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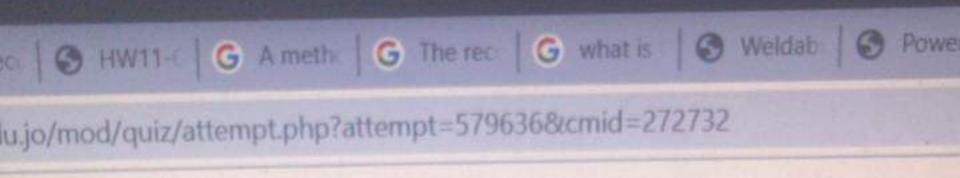






The main methods to correct the microstructure of castings are:

- a. annealing
- b. hardening
- o c. normalizing
- O d. A and C



Clear my choice

Which one of the following is not equilibrium heat treatment

Select one:

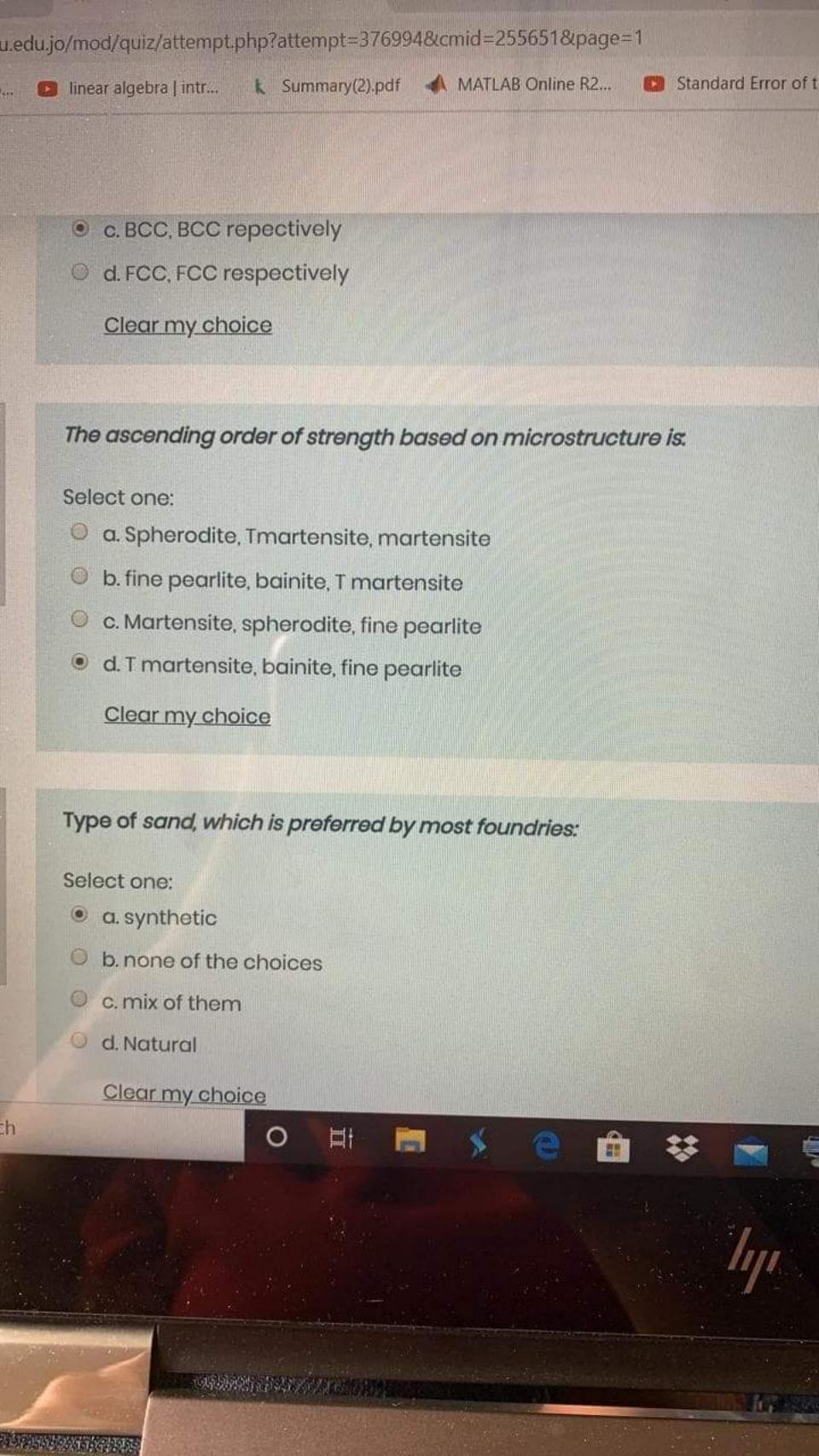
- a. Austenizing
- o b. annealing
- c. precipitation
- d. normalizing

Clear my choice

The slowest cooling rate is obtained when steel is quenched in

Select one

- a mixture of all and water
- b. fused solt
- D. C. OIL
 - d bring



starts line and soaking to a certain time, soaking to a certain time but not cross the transformation ends line, then quenching

Clear my choice

Question 15

Answer saved

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P Flag question No post heat treatment of the weld is recommended if the carbon equivalent (CE) is.

Select one:

- a. CE < 0.35
 </p>
- O b. 0.35 < CE < 0.55
- O c. 0.55 < CE
- Od. A and B

Not yet answered

Marked out of 3.00

P Flag question

Spherodite microstructure in eutectoid plain carbon steel can be formed by using isothermal transformation process if

Select one:

- a. cooled to lower the critical temperature only and left for 10⁴ seconds
- b. cooled to above the critical temperature or lower to it and left for 10⁴ seconds
- c. cooled to above the critical temperature only and left for 10⁴ seconds
- d. cooled to the critical temperature only and left for 104 seconds

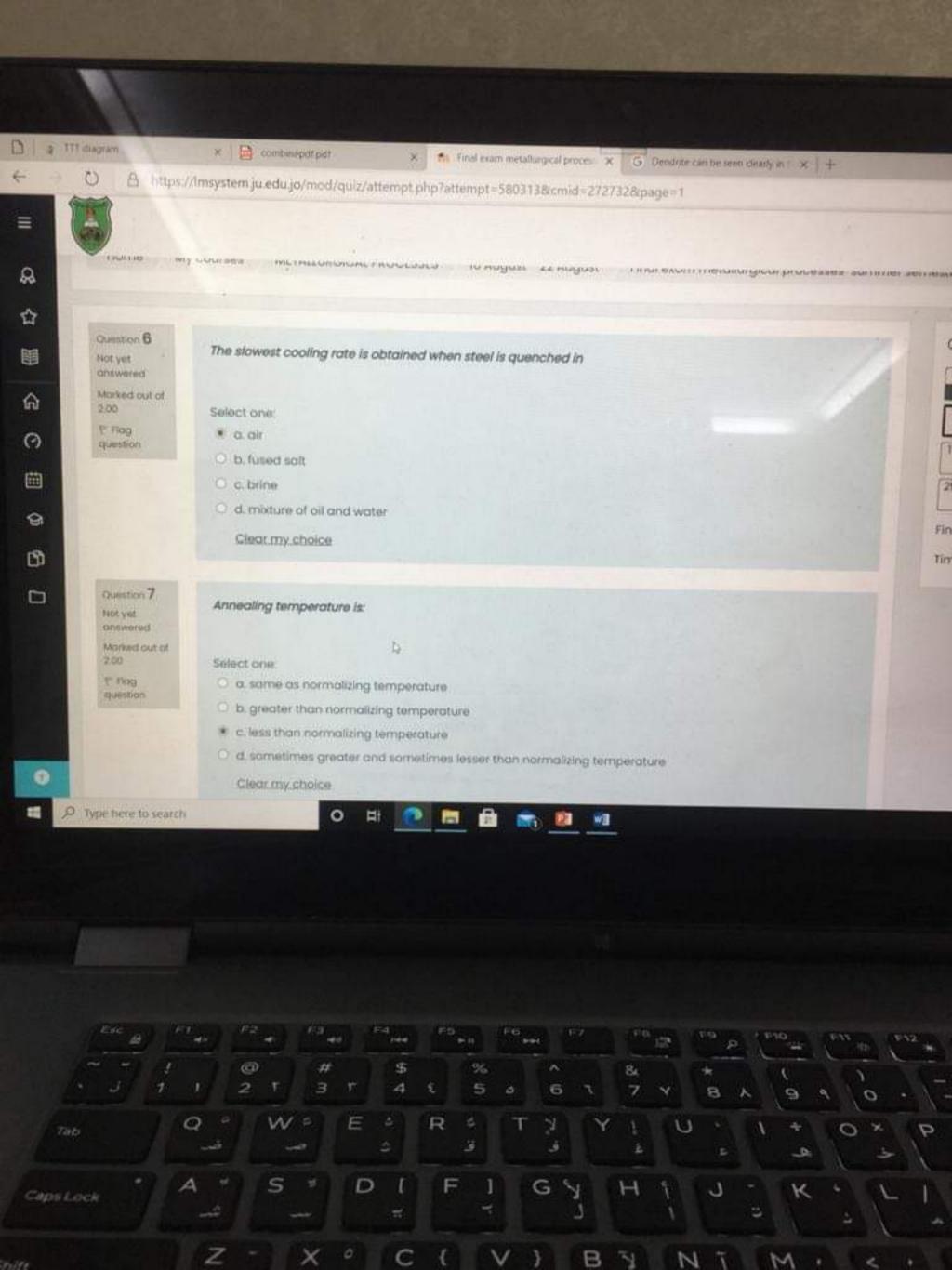


Question 12

Answer saved

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The cooling rate for the solution heat treatment process of Al-copper alloys is:



The ascending order of strength based on microstructure is.

Select one:

- a. fine pearlite, bainite, T martensite
- b. Martensite, spherodite, fine pearlite
- c. Spherodite, Tmartensite, martensite
- d. T martensite, bainite, fine pearlite

Bainitic microstructure in eutectoid plain carbon steel can be formed by using continuous cooling diagram if

Select one:

- a. the cooling rate passes through the critical point
- b. none of the choices
- o c. the cooling rate goes before the critical point
- O d. the cooling rate goes after the critical point

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Type of sand, which is preferred by most foundries:

Select one:

- a. synthetic
- b. mix of them
- c. none of the choices
- d. Natural

The ascending order of strength based on microstructure is:

Select one:

- a. fine pearlite, bainite, T martensite
- 6 b. Spherodite, Tmartensite, martensite
- c. Martensite, spherodite, fine pearlite
- d. T martensite, bainite, fine poarlite

Flush quenching is when:

Clear my choice

Question 2

Not yet answered

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Bainitic microstructure in eutectoid plain carbon steel can be formed by using continuous cooling diagram if

Select one:

- a. the cooling rate passes through the critical point
- b. none of the choices
- c. the cooling rate goes be re the critical point
- d. the cooling rate goes after the critical point

Clear my choice

Question 3

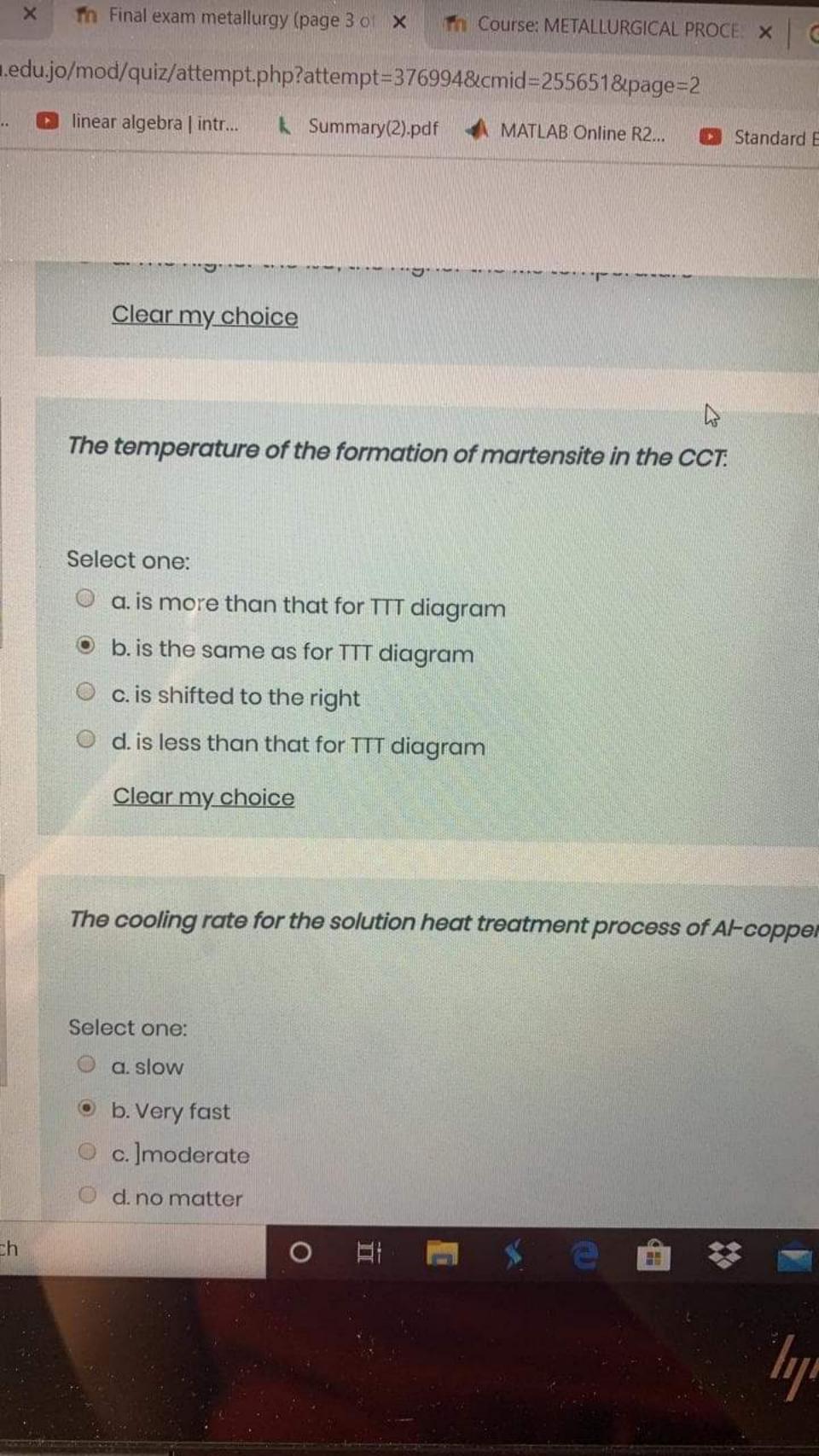
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If the nose of the TTT diagram is for an alloy at the zero time line

Select one:

a Special furnace is peeded to barden it



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The recommended heat treatment process for the car body is:

select one:

- o a. normalizing + hardening
- O b. normalizing
- O c. annealing
- o d. Hardening

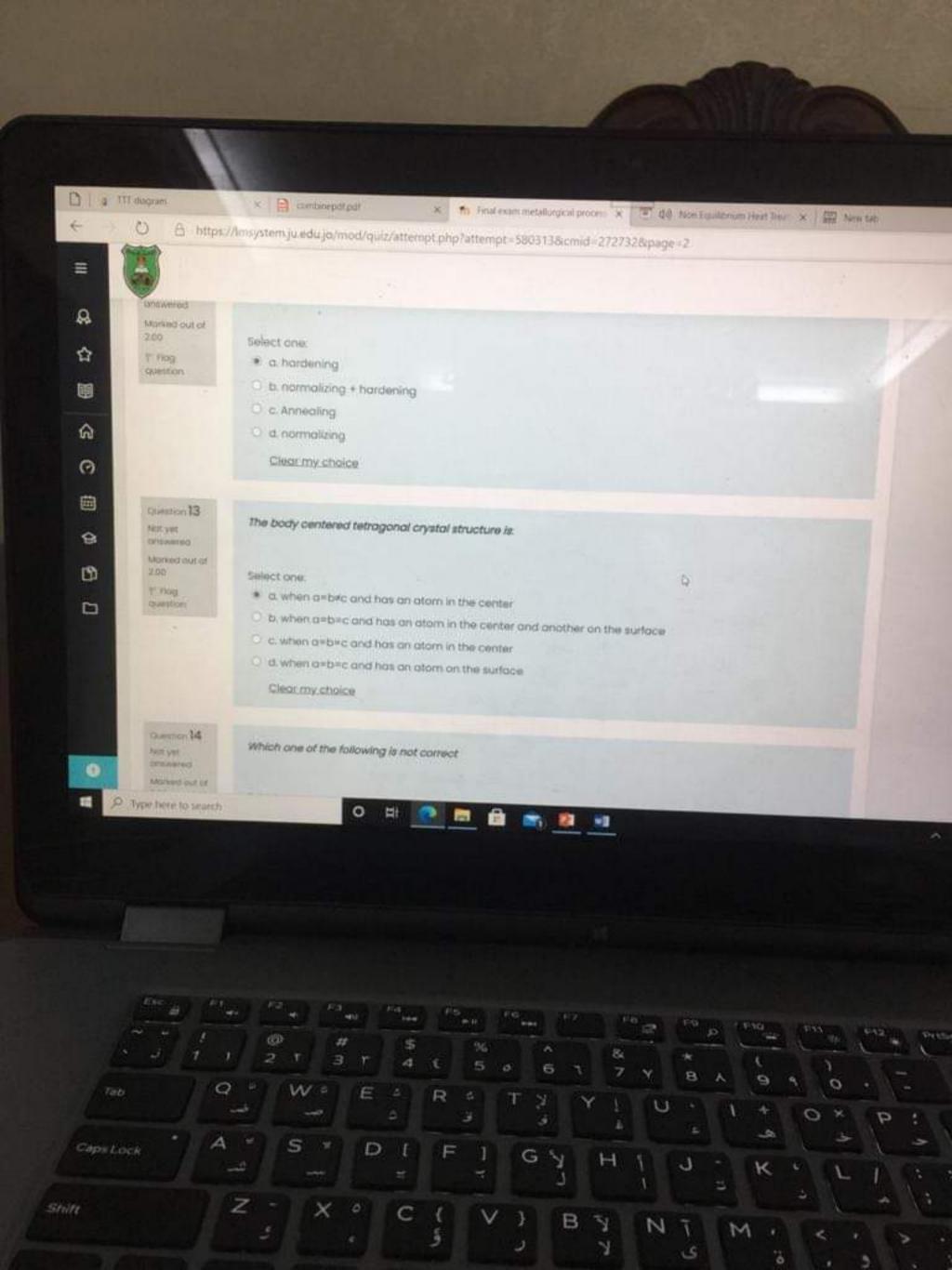
ut of Select one: a. Weld metal, and Knife effect in Base metal b. HAZ and Knife effect in Base metal c. Weld metal, HAZ, and Base metal d. Weld metal, HAZ, and Knife effect in Base metal Clear my choice 6 15 The hardenability is not affected by saved out of Select one: a. quenching medium and method of o b. air c. critical cooling rate d. chemical composition of steel Clear my choice

The main distinct welding zones are:

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'n In In John Jule of Jule METALLURGICAL PROCESSES \$ Question 6 Answer saved Marked out of The recommended heat treatment process for the hocksow is: P Flog *Nuestion* Select one: 16 AUGUST - 22 AUG o. annealing O b. Normalizing + harehing © C. hHardening Od. Normalizing Clear my choice Dendrite can be seen clearly in the microstructure of the costings if the allow



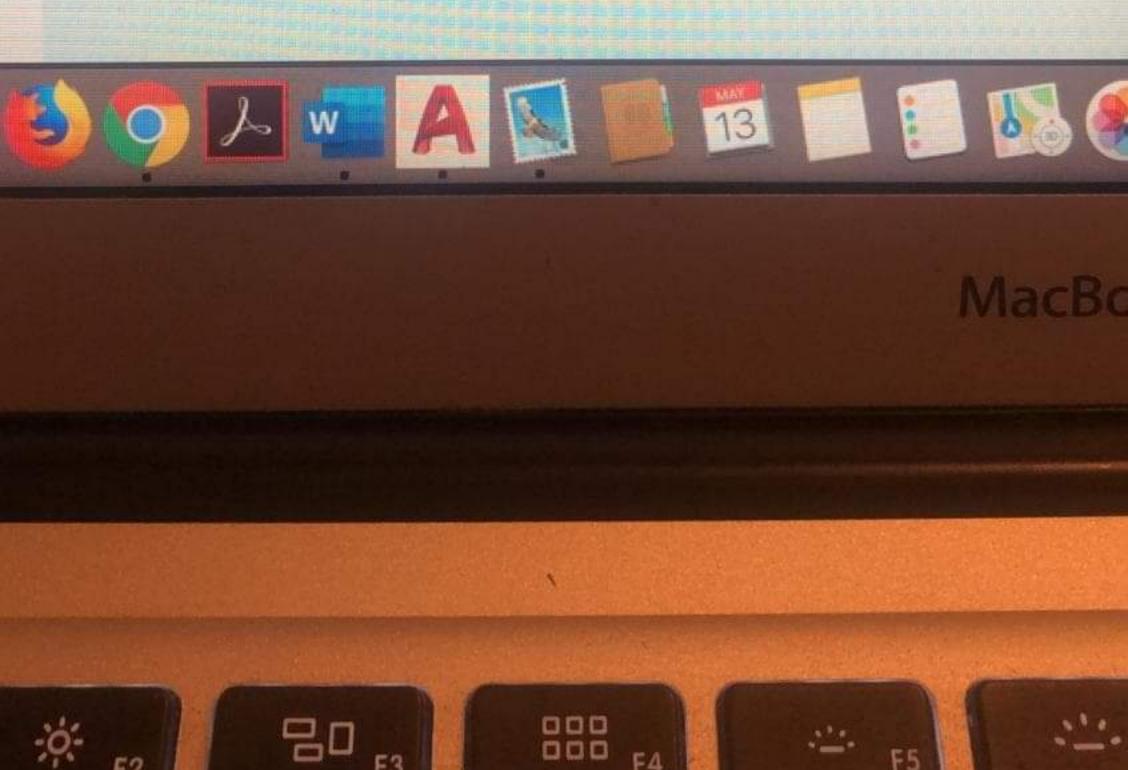
Type of sand, which is preferred by most foundries:

Select one:

- a. none of the choices
- o b. mix of them
- o c. synthetic
- od. Natural

Clear my choice

The cooling rate for the solution heat treatment proces



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The severity of quenching media from low to high can be ranked as follows:

- a. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, warm water, cold water,
 20% brine, 5% caustic soda
- b. 5% caustic soda, 20% brine, cold water, animal oil, warm water, animal oil, mineral oil, vegetable oil,
 air, insulating material or furnace
- c. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, cold water, warm water,
 20% brine, 5% caustic soda
- Od. 5% caustic soda, cold water ,20% brine, warm water, animal oil, mineral oil, vegetable oil, air, insulating material or furnace.

The hardenability is not affected by

Select one:

- a. quenching medium and method of
- O b, air
- O c. critical cooling rate
- O d. chemical composition of steel

The temperature of the formation of martensite in the CCT:

- O a. is the same as for TTT diagram
- O b. is shifted to the right
- O c. is less than that for TTT diagram
- O d. is more than that for TTT diagram

Clear my choice

Question 20

Answer saved

Marked out of 2.00

P Flag question Which one of the following is not correct

Select one:

- a. Martensite has a BCC structure
- b. Austenite has FCC structure
- c. The martensite which is formed during quenching is too brittle
- Od. Martensite is a solid solution of carbon in BCC iron

LURGICAL PROCESSES

My courses

METALLURGICAL PROCESSES

16 August -

Bainite is:

Select one:

- a. It is a solid solution of iron and carbon
- b. It is the mixture of ferrite and cementite
- c. It is Ferrite and Cementite! It's just acicular
- O d. It is very hard and brittle

Clear my choice

Which one of the following is not correct

- a. Martensite has a BCC structure
 - b. The mortensite which is formed during quenching is too

Clear my choice

Annealing temperature is:

Select one:

- a. greater than normalizing temperature
- b. same as normalizing temperature
- c. sometimes greater and sometimes lesser that
- Od. less than normalizing temperature

 Clear my choice

Which one of the following is not equilibrium heat trea

Select one

- a. Austenizing
- b. annealing
- e c precipitation
 - a normalizing
 - Clear my choice

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b. Normalizing+harening O c. hHardening d. Normalizing Clear my choice Question 7 Dendrite can be seen clearly in the microstructure of the castings if the alloy: Answer saved Marked out of 2.00 Select one: P Flag o. is pure question b. has impurity atoms c. is magnetized d. is radio active Clear my choice Question 8 The limitation of the phase diagram for heat treatment purposes is that. Not yet answered Marked out of

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Flag question

Not yet answered

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? Flag question

Flush quenching is when:

Select one:

- a. the liquid is poured onto the surface and into every cavity of the to ensure uniform cooling
- b. the liquid is sprayed onto the surface and into every cavity of the to ensure uniform cooling
- c. none of the choices
- d. you cool the metal in a tank of liquid

6. The overaging mechanism in Al-Cu alloys is.

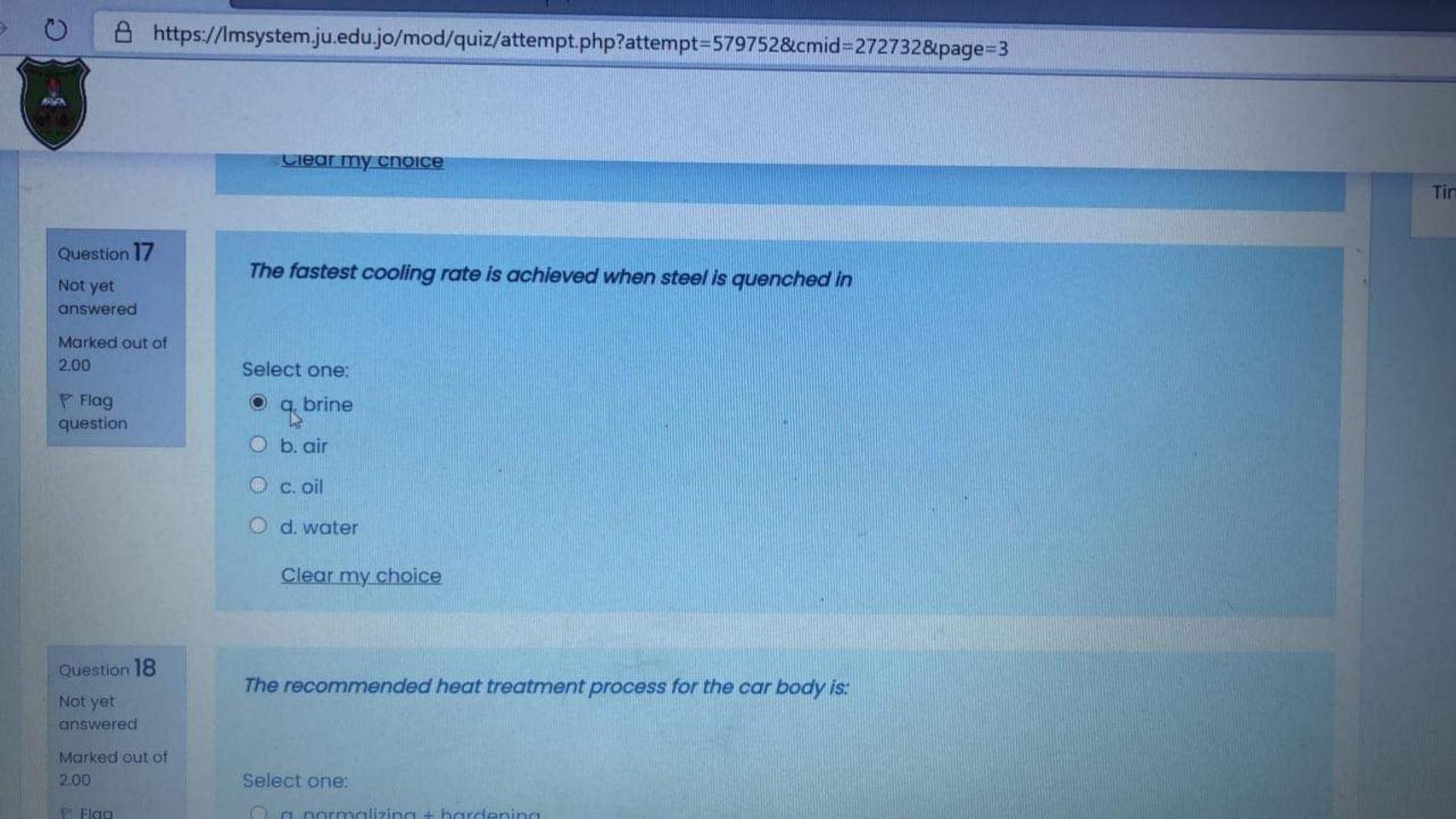
- a. A result of Alpha phase formation
- b. A result of the perfection in the lattice
 - c. A result of the formation of a Ms-like structure

d. is the same as for TTT diagram

The bonding energy for ionic, metallic, secondary types can be classified respectively as follows:

Select one:

- a. large, variable, small
- b. variable, variable, small
- c. small, large, variable
- d. variable, large, small



Question 8

Not yet answered

Marked out of 3.00

Flag question

The severity of quenching media from low to high can be ranked as follows:

Select one:

- a. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, warm water, cold
 20% brine, 5% caustic soda
- b. 5% caustic soda, 20% brine, cold water, animal oil, warm water, animal oil, mineral oil, vegetable oil, air, insulating material or furnace
- c. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, cold water, warm water,
 20% brine, 5% caustic soda
- d. 5% caustic soda, cold water ,20% brine, warm water, animal oil, mineral oil, vegetable oil, air, insulating material or furnace.

Question 9

Not yet answered

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Flush quenching is when:

Select one:

a. the liquid is sprayed onto the surface and into every cavity of the part at the same time

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Not yet answered

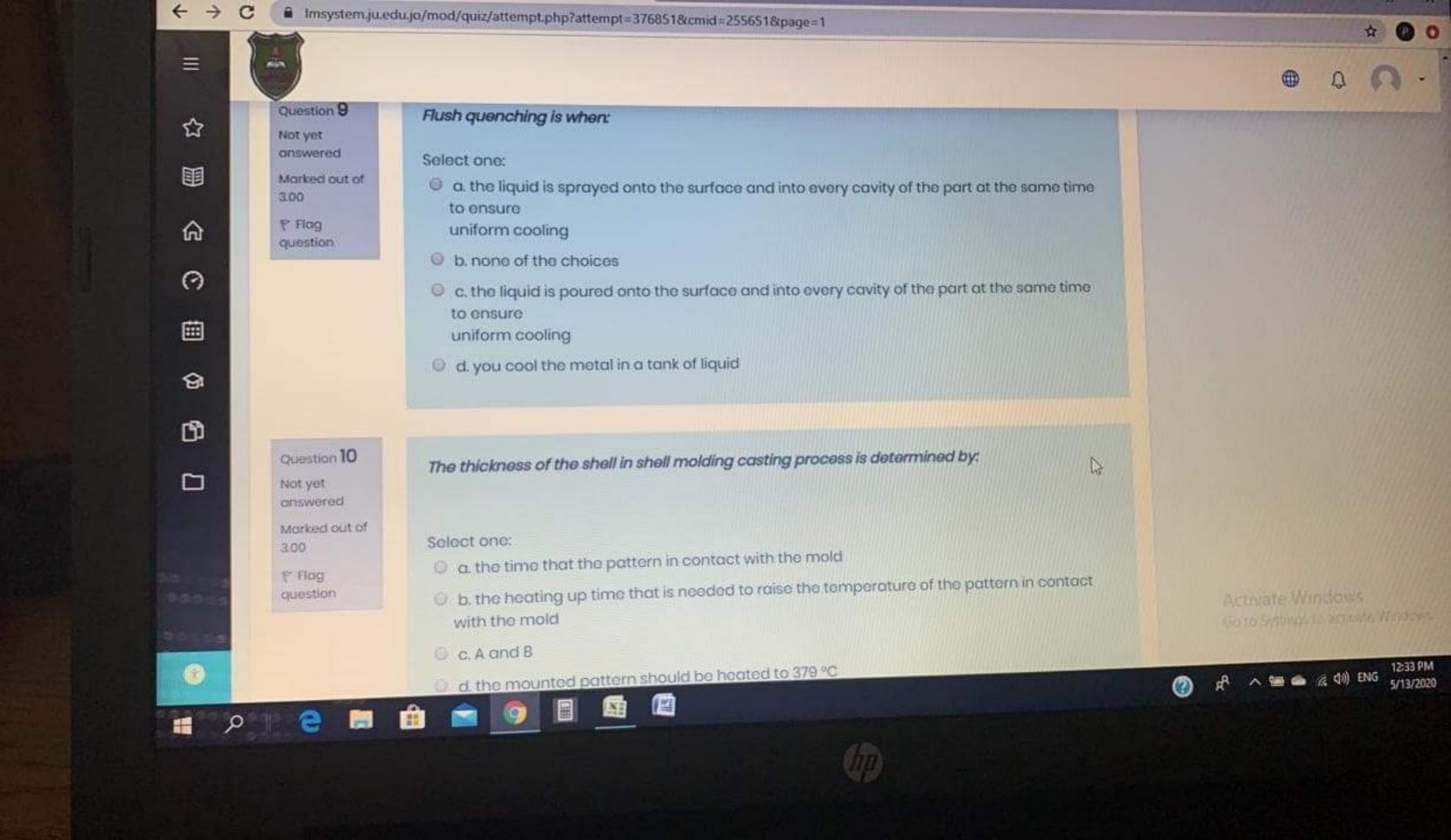
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question

The severity of quenching media from low to high can be ranked as follows:

- a. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, warm water, cold water,
 - 20% brine, 5% caustic soda
- b. insulating material or furnace, air, vegetable oil, animal oil, mineral oil, cold water, warm water,
 - 20% brine, 5% caustic soda
- c. 5% caustic soda, 20% brine, cold water, animal oil, warm water, animal oil, mineral oil, vegetable oil, air, insulating material or furnace
 - d. 5% caustic soda, cold water ,20% brine, warm water, animal oil, mineral oil, vegetable oil, air,
 - insulating material or furnace.



Not yet answered

Marked out of 3.00

P Flag question

The temperature of the formation of martensite in the CCT:

Select one:

- a. is more than that for TTT diagram
- b. is shifted to the right
- c. is less than that for TTT diagram
- Od. is the same as for TTT diagram

Question 5

Answer saved

Type of sand, which is preferred by most foundries:

Not yet answered

Marked out of 2.00

P Flag

The slowest cooling rate is obtained when steel is quenched in

6

Select one:

- o a. air
- b. fused salt
- O c. brine
- O d. mixture of oil and water





















Not yet answered

Marked out of 2.00

* Flag question The tensile strength (TS) of steel can be predicted for the steel with a composition till eutectoid composition by the following formula:

Select one:

Clear my choice

3

Clear my choice

Question 7

Answer saved

Marked out of 2.00

P Flag

The recommended heat treatment process for the car body is:

Select one:

- a. annealing
- b. normalizing
- c. Hardening
- Od. normalizing + hardening

Clear my choice

1

Question 8

Austenite is:



METALLURGICAL PROCESSES

Home

My courses

METALLURGICAL PROCESSES

16 August - 22 August

Final exam metallurgical processes-summer semester

Question 11

Not yet answered

Marked out of 2.00

P Flag

The overaging mechanism in Al-Cu alloys is.

Select one:

- a. A result of the perfection in the lattice
- b. A result of the distortion in the lattice
- c. A result of Alpha phase formation
- O d. A result of the formation of a Ms-like structure

Clear my choice

Finish attempt ..

25

Time left 0:34:42

Quiz navigat

Question 12

Answer saved

Marked out of

F Flag

The tensile strength (TS) of steel can be predicted for the steel with a composition till eutectoid composition by the following formula:

Select one:

O a TS = 750x%carbon+350

Question 13

Not yet answered

Marked out of 2.00

F Flag question

Question 14

Not yet answered

Marked out of 2.00

F Flag

The formation of the graphite into a ball form in ductile cast iron is accomplished by.

Select one:

- a. Mg and Cerium
- O b. Adding Mn and Cerium
- O c. Mo and Cerium

Clear my choice

The overaging mechanism in Al-Cu alloys is:

Select one:

- O a. A result of the perfection in the lattice
- b. A result of the distortion in the lattice
- O c. A result of the formation of a Ms-like structure
- O d. A result of Alpha phase formation

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Clear my choice



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Dendrite can be seen clearly in the microstructure of the castings if the alloy:

Select one:

- a. is radio active
- b. has impurity atoms
- O c. is pure
- O d. is magnetized

Clear my choice

swer saved

irked out of

The recommended heat treatment process for the car body is:

- O c. oil
- O d. water

Question 18

Not yet answered

Marked out of 2.00

P Flag question

The recommended heat treatment process for the car body is:

Select one:

- a. normalizing + hardening
- b. annealing
- O c. normalizing
- O d. Hardening

Question 19

Not yet answered

Marked out of 2.00

No post heat treatment of the weld is recommended if the carbon equivalent (CE) is.

Select one:

d. it is impossible to harden it

Question 15

Not yet answered

Marked out of

P Flag

No post heat treatment of the weld is recommended if the carbon equivalent (CE) is:

Select one:

- O a. CE < 0.35
- b. 0.35 < CE < 0.55</p>
- O c. 0.55 < CE
- Od. A and B

Clear my choice

Previous page





















Question 4

Not yet answered

Marked out of 3.00

P Flag

The temperature of the formation of martensite in the CCT.

Select one:

- a. is more than that for TTT diagram
- b. is shifted to the right
- c. is less than that for TTT diagram
- d. is the same as for TTT diagram



Question 5

Answer saved

Marked out of

Type of sand, which is preferred by most foundries:

Select one:

Spherodite microstructure in eutectoid plain carbon steel can be formed by using isothermal transformation process if

Select one:

- Decooled to above the critical temperature or lower to it and left for 104 seconds
- b cooled to lower the critical temperature only and left for 104 seconds
- c cooled to the critical temperature only and left for 104 seconds
- d copied to above the critical temperature only and left for 104 seconds

Type of sand which is preferred by most foundries:

The recommended heat treatment process for the Drive half-shaft for a small car is:

Select one:

- a. normalizing
- b. normalizing + hardening
- c. Annealing
- O d. hardening

Clear my choice

The Ms temperature on the TTT diagram is a function of carbon content as follows:

Question 3 If the nose of the TTT diagram is for an alloy at the zero time line Not yet answered Select one: Marked out of a. Special furnace is needed to harden it 3.00 b. It would be easy to harden it P Flag question c. It is difficult to harden it d. it is impossible to harden it B Question 4 The temperature of the formation of martensite in the CCT: Not yet answered Marked out of Select one: 3.00 a. is more than that for TTT diagram P Flag question b. is shifted to the right O c. is less than that for TTT diagram O d. is the same as for TTT diagram

Which one of the following is not equilibrium heat treatment

Select one:

- a. annealing
- b. precipitation
- c. Austenizing
- O d. normalizing

Clear my choice

The limitation of the phase diagram for heat treatment purposes is that YUIL HUVIYULIU Not yet answered Marked out of 2.00 Select one: a. it is used only for plain carbon steel P Flag question b. it does not show the bainite c. it does not show the effect of cooling rate O d. Austenite does not exist at room temperature Finish attempt ... Question 22 The cooling rate for the precipitation heat treatment process of Al-copper alloys is: Time left 0:15:06 Not yet answered Marked out of Select one: 2.00 O a. very fast F Flag question O b. slow O c. no matter O d. moderate ^ D 벍 O Type here to search

O d. moderate

Which one of the following is not correct

Select one:

- a. Martensite has a BCC structure
- O b. Austenite has FCC structure
- Oc. The martensite which is formed during quenching is too brittle
- Od. Martensite is a solid solution of carbon in BCC iron

Clear my choice

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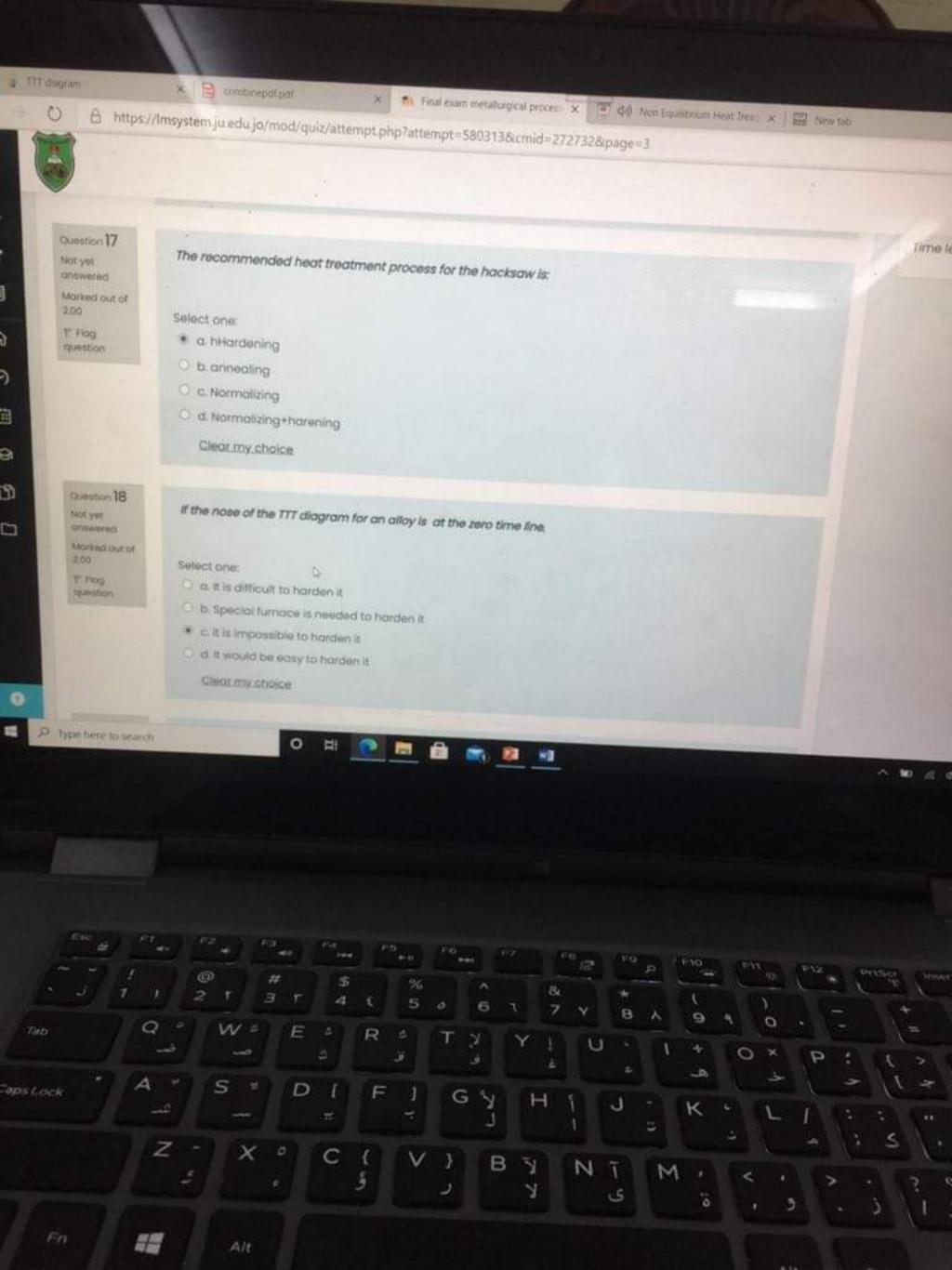
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ion

Austenite is:



The recommended heat treatment process for the hacksaw is:

Select one:

- O a. annealing
- O b. Normalizing
- c. Normalizing+harening
- O d. hHardening

Clear my choice



Question 13

Not yet answered

Marked out of 3.00

F Flag question The Ms temperature on the TTT diagram is a function of carbon content as follows:

Select one:

- a. There is a slight change in Ms temperature
- b. The higher the %C, the higher the Ms temperature
- c. There is no change in Ms temperature
- d. The higher the %C, the higher the Ms temperature

Question 14

Answer saved

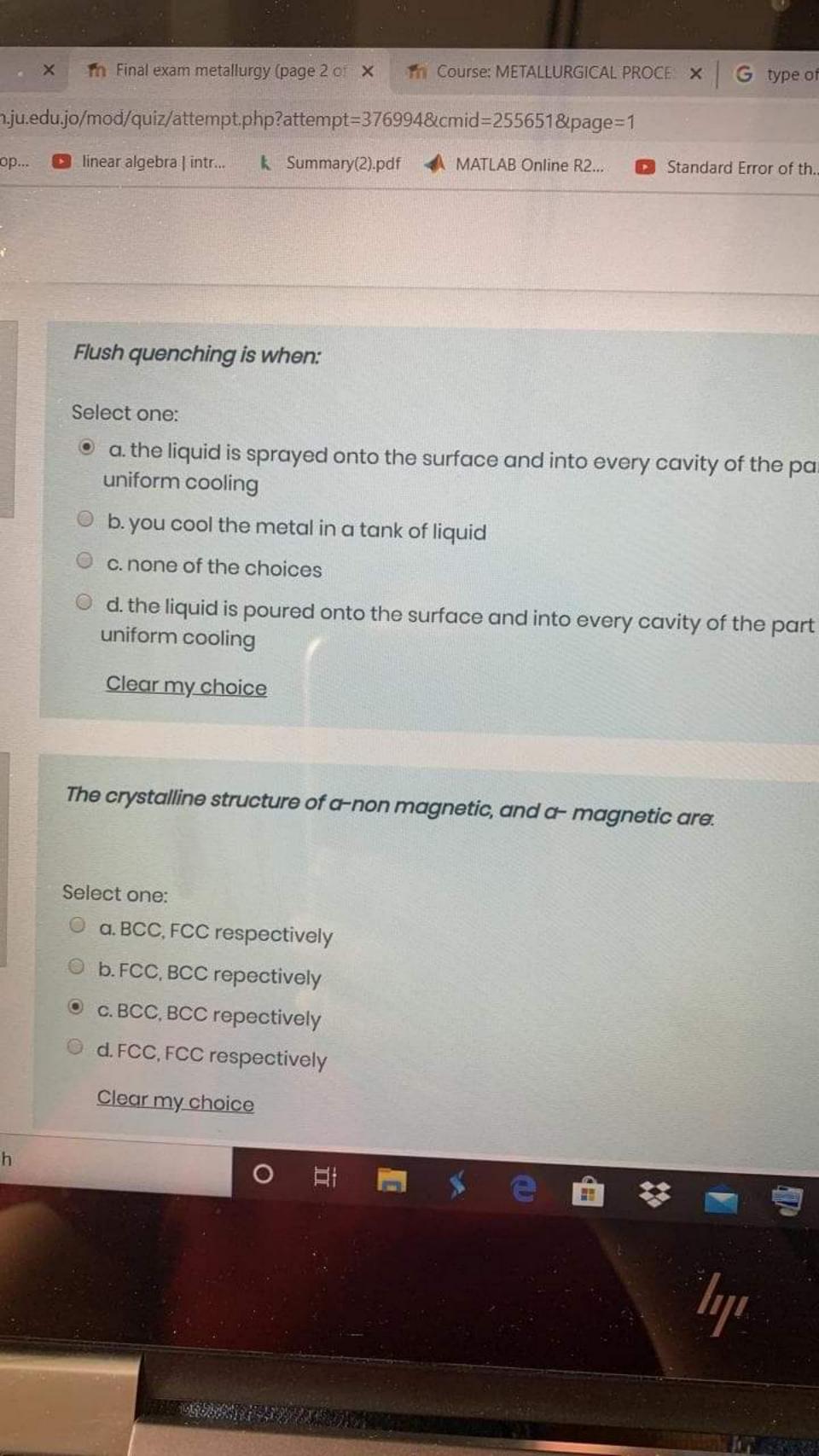
Marked out of 3.00

P Flag

The cooling rate for the solution heat treatment process of Al-copper alloys is:

Select one:

a lanadarata



The Ms temperature on the TTT diagram is a function of carbon content as follows.

Select one:

- a. There is no change in Ms temperature
- b. There is a slight change in Ms temperature
- O c. The higher the %C, the higher the Ms temperature
- O d. The higher the %C, the lower the Ms temperature

Clear my choice

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The overaging mechanism in Al-Cu alloys is:

Appropriate Country Co

Bainitic microstructure in eutectoid plain carbon steel can be formed by using continuous cooling diagram. If

Select one:

- a the cooling rate goes after the critical point
- b. the cooling rate passes through the critical point
- c. the cooling rate goes before the critical point
- o d none of the choices

Spherodite microstructure in eutectoid plain carbon steel can be formed by using isothermal transformation process if

Select one:

- a cooled to above the critical temperature or lower to it and left for 10⁴ seconds
- b. cooled to lower the critical temperature only and left for 10⁴ seconds
- c cooled to the critical temperature only and left for 104 seconds
- d cooled to above the critical temperature only and left for 104 seconds

Spenster 3

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