ANUFACTURING PROCESSES LAB.

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The distance the tool travels during one revolution of the part in turning is known as:

Select one:

- a. Material removal rate
- b. Feed rate
- c. Cutting speed
- d. Depth of cut

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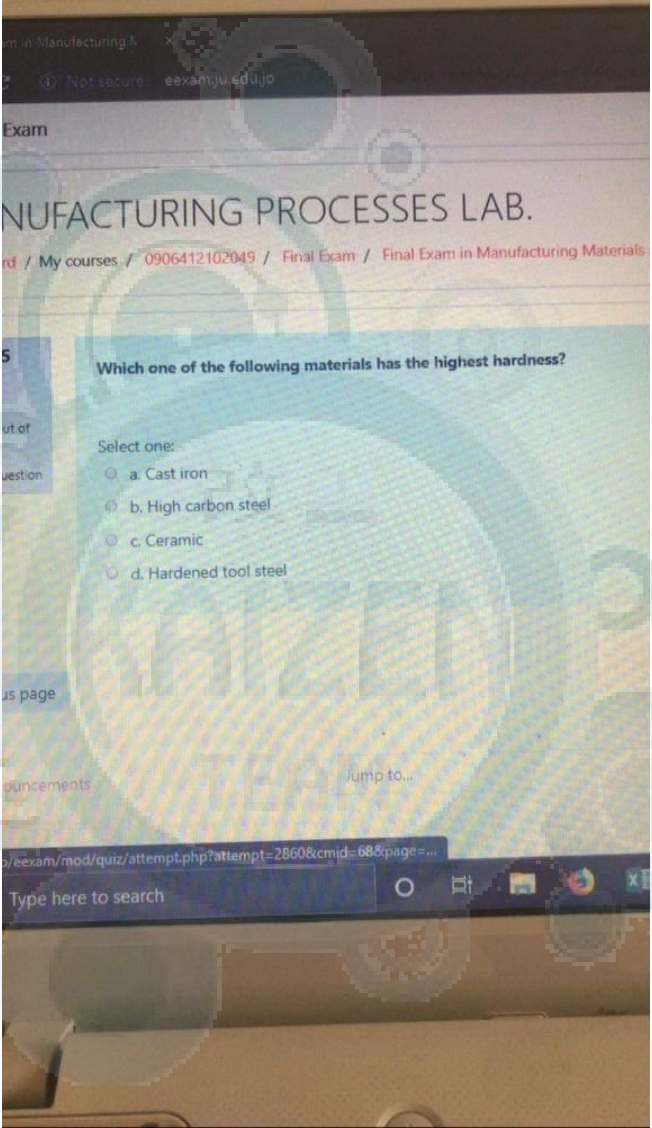
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Which one of the following materials has the highest hardness?
Select one:
a. Cast iron
b. High carbon steel
c. Ceramic
d. Hardened tool steel
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Flame cutting process produces a bad surface finish

Select one:

- True
- False

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A factory that performs casting operations is usually called

Select one:

- a. Factory
- b. Workshop
- c. Foundry
- d. Plant

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Which one of the following materials has the highest hardness?

Select one:

- a. High carbon steel
- b. Hardened tool steel
- c. Ceramic
- d. Cast iron

Clear my choice

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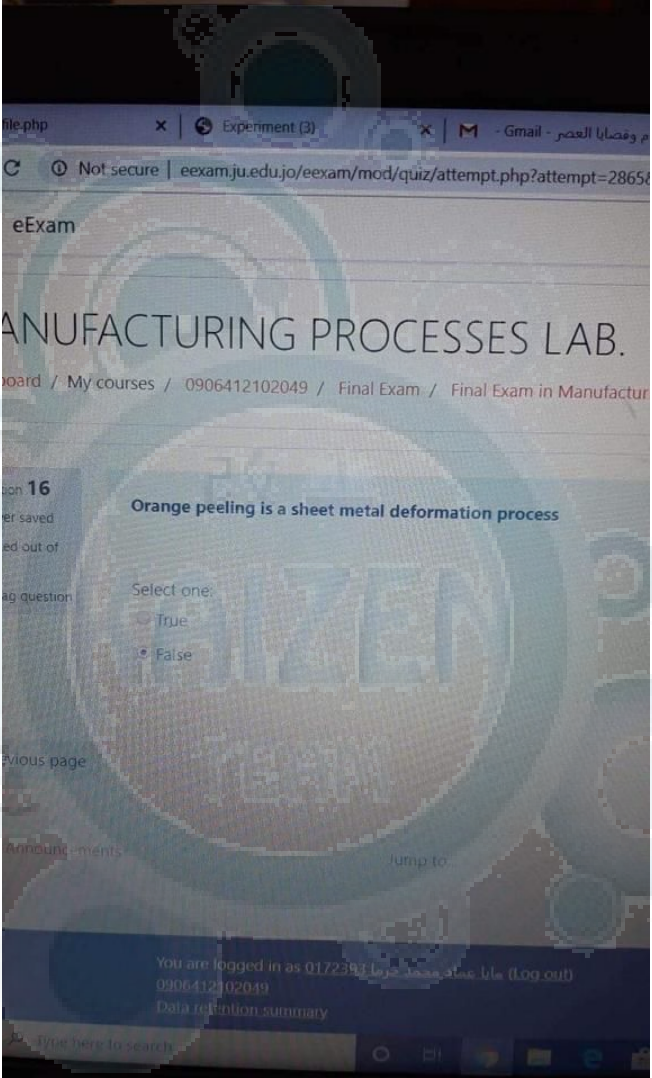
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Orange peeling is a sheet metal deformation process
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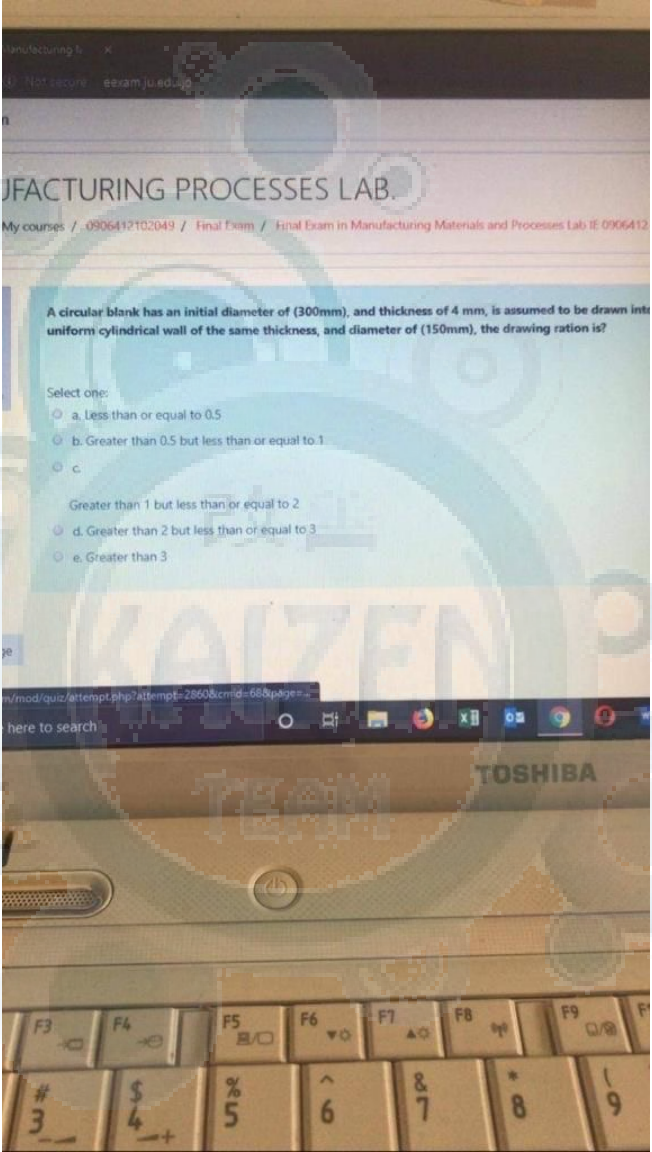
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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn int
uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?
Select one:
a. Less than or equal to 0.5
b. Greater than 0.5 but less than or equal to 1
c.
Greater than 1 but less than or equal to 2
d. Greater than 2 but less than or equal to 3
e. Greater than 3
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TOSHIBA

Roughness is expressed in terms of its height, its width, and the hardness on the surface along which it is measured

Select one:

- True
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uestion **16**
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Flag question

A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?

Select one:

- a. Less than or equal to 0.5
- b. Greater than 0.5 but less than or equal to 1
- c. Greater than 1 but less than or equal to 2
- d. Greater than 2 but less than or equal to 3
- e. Greater than 3

Quiz naviga

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Question **18**

Not yet answered

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During a Brinell hardness test of a specific material, a load (P = 3-kilogram force) is imposed through a spherical steel indenter of a diameter (D = 5 mm), the resultant depression diameter (d_i = 1.5 mm), the Brinell hardness number (BHN) is?

Select one:

a.
Less than or equal to 0.5

b.
Greater than 0.5 but less than or equal to 2

c.
Greater than 2 but less than or equal to 2.5

d.
Greater than 3

e.
Greater than 2.5 but less than or equal to 3

Clear my choice

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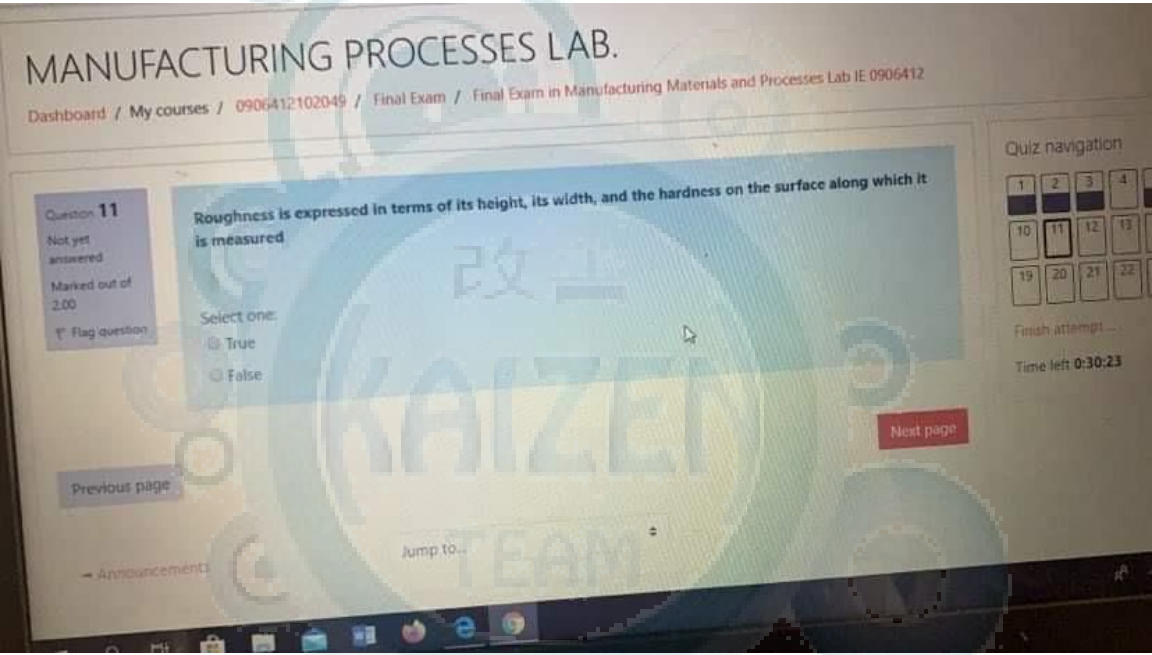
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Roughness is expressed in terms of its height, its width, and the hardness on the surface along which it is measured
Select one:
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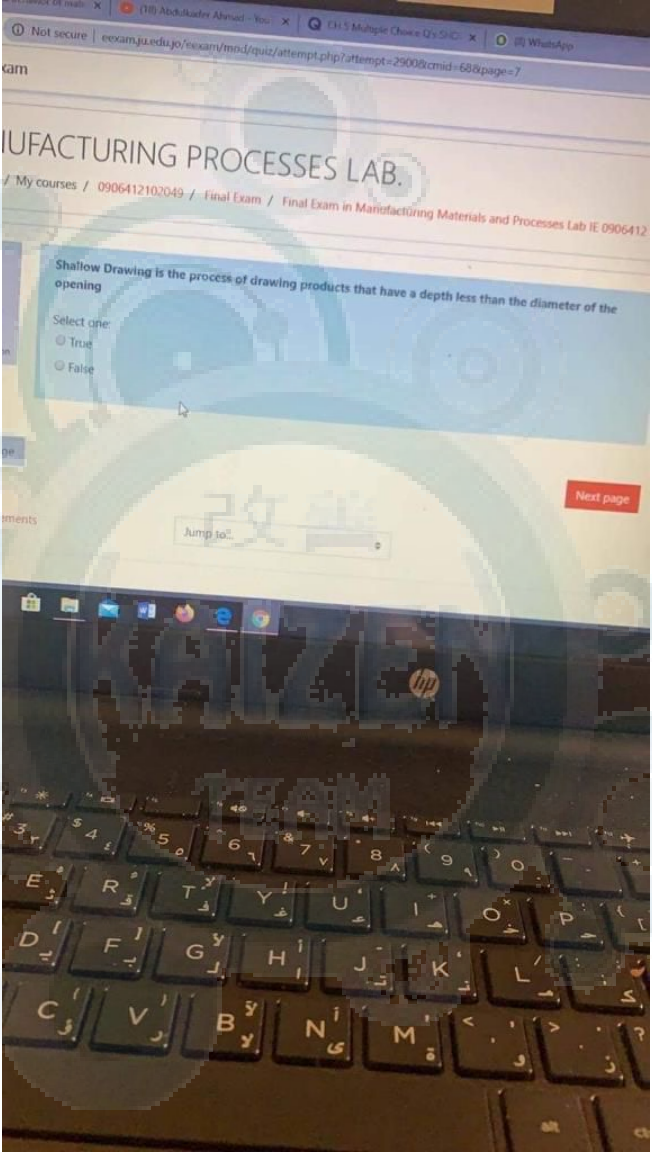
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Shallow Drawing is the process of drawing products that have a depth less than the diameter of the opening
Select one:
True
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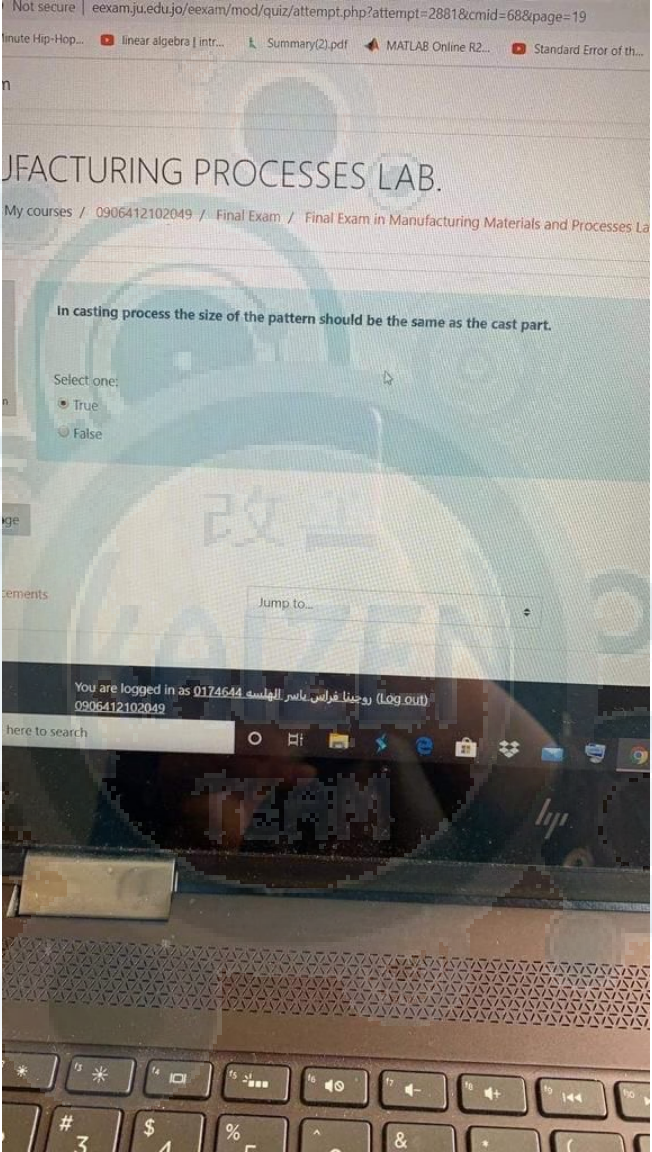
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In casting process the size of the pattern should be the same as the cast part.
Select one:
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Question 2

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Which one of the following materials has the highest hardness?

Select one:

- a. Hardened tool steel
- b. Ceramic
- c. High carbon steel
- d. Cast iron

Previous page

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Question **16**

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Hardness is inversely proportional with?

Select one:

- a. Toughness
- b. Elasticity
- c. Strain hardening
- d. Necking

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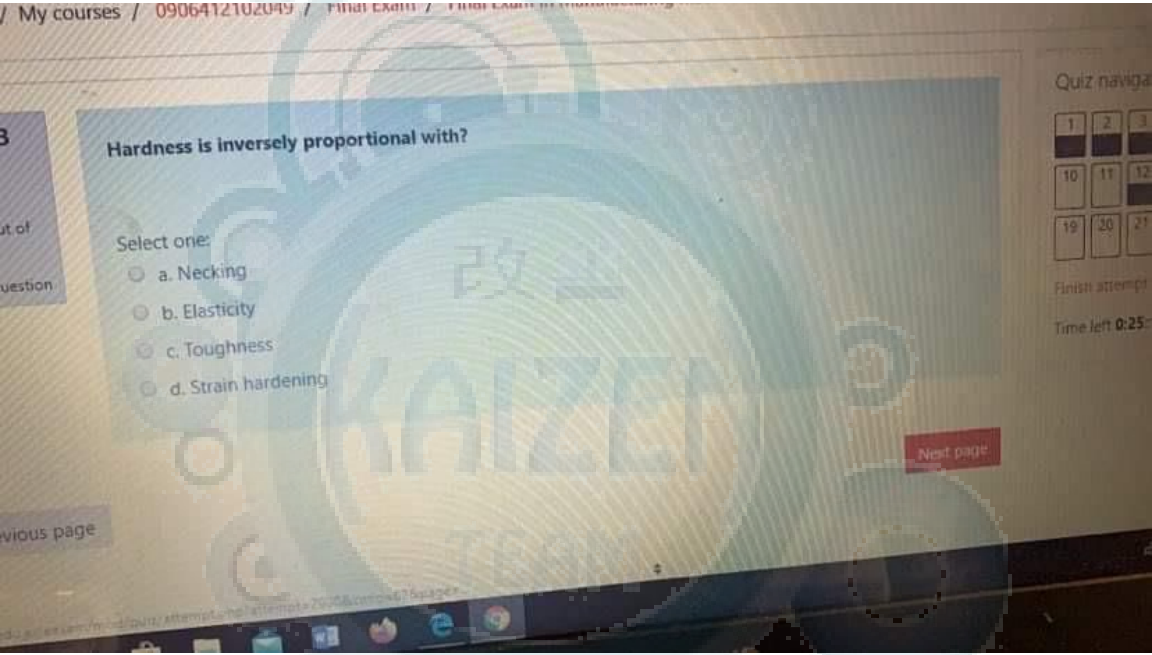
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Hardness is inversely proportional with?
Select one:
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b. Elasticity
c. Toughness
d. Strain hardening
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During a Brinell hardness test of a specific material, a load (P = 3-kilogram force) is imposed through a spherical steel indenter of a diameter (D = 5 mm), the resultant depression diameter (d_i = 1.5 mm), the Brinell hardness number (BHN) is?

Select one:

a.
Greater than 2.5 but less than or equal to 3

b.
Less than or equal to 0.5

c.
Greater than 3

d.
Greater than 2 but less than or equal to 2.5

e.
Greater than 0.5 but less than or equal to 2

Quiz navigation

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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?

Select one:

a. Less than or equal to 0.5

b. Greater than 0.5 but less than or equal to 1

c. Greater than 1 but less than or equal to 2

d. Greater than 2 but less than or equal to 3

e. Greater than 3

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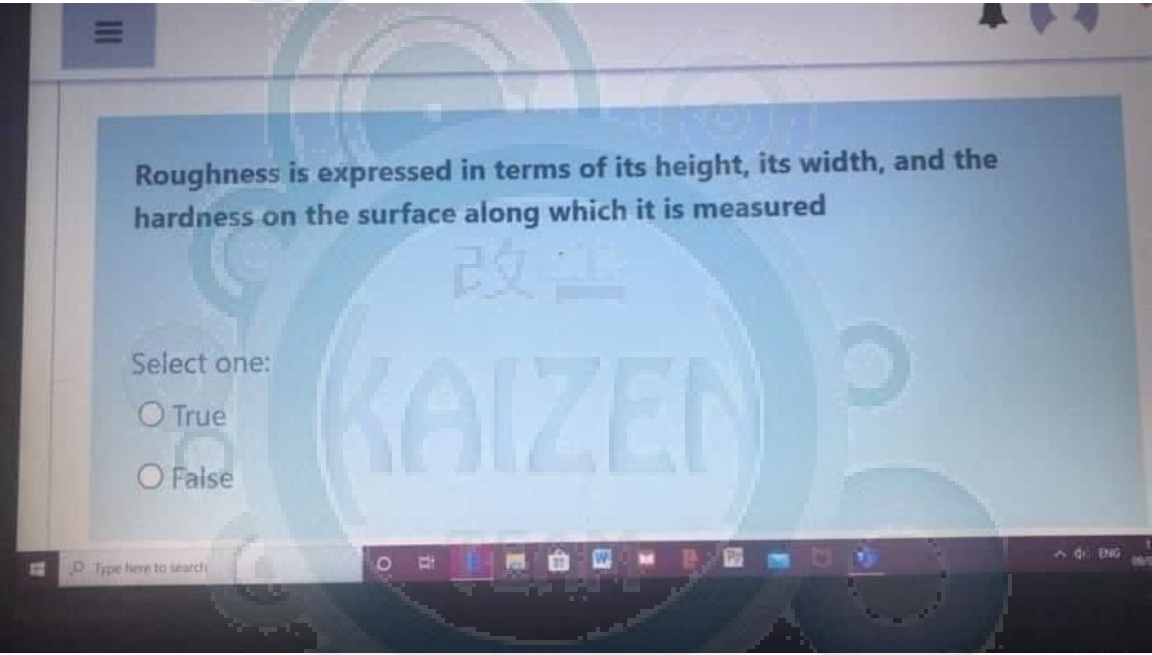
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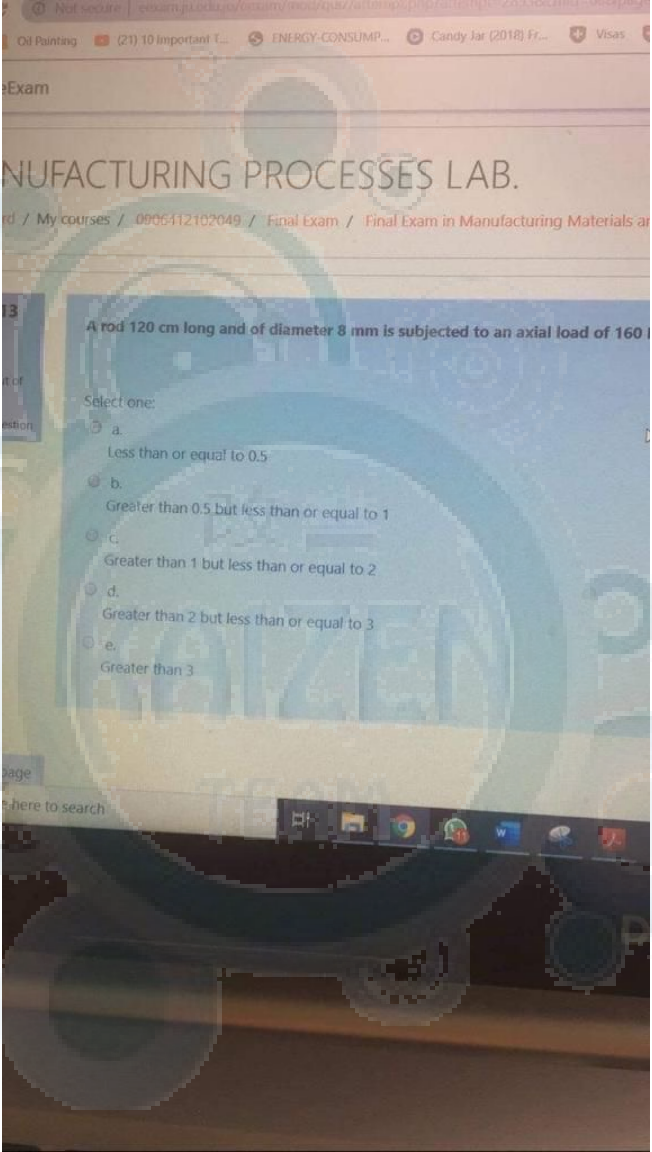
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A rod 120 cm long and of diameter 8 mm is subjected to an axial load of 160
Select one:
a.
Less than or equal to 0.5
b.
Greater than 0.5 but less than or equal to 1
c.
Greater than 1 but less than or equal to 2
d.
Greater than 2 but less than or equal to 3
e.
Greater than 3
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Question 24

Not yet answered

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A .....is a reservoir built into a metal casting mold to prevent cavities due to shrinkage

Select one:

a. Vent

b. Sprue

c. Runner

d. Riser

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Roughness is expressed in terms of its height, its width, and the hardness on the surface along which it is measured

Select one:

- True
- False

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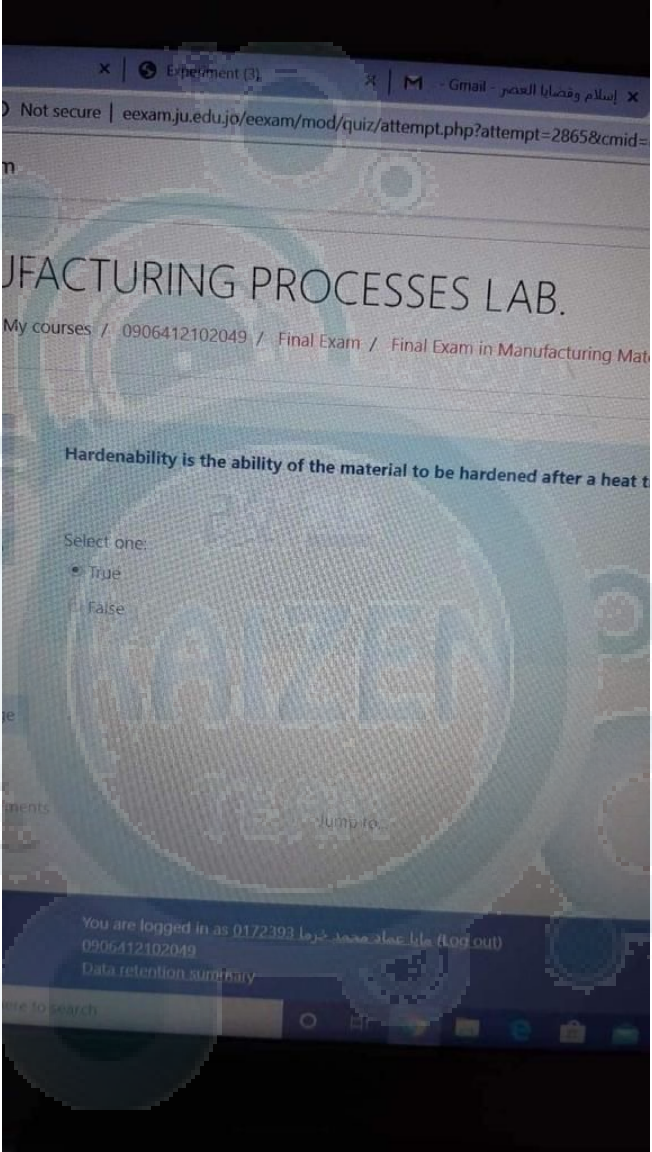
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Hardenability is the ability of the material to be hardened after a heat t
Select one:
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Hardenability is the ability of the material to be hardened after a heat treatment:

Select one:

- True
- False

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The yield strength is

Select one:

- a. The slope of the initial linear portion of the stress-strain curve
- b. Maximum stress on the engineering stress-strain curve
- c. The stress at the end of the stress strain curve
- d. The point on a stress–strain curve that indicates the limit of elastic behavior

Clear my choice

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In deep drawing, a low blank holder force can lead to

Select one:

- a. Ironing
- b. Wrinkling
- c. Stretching
- d. Pure Drawing

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Jominy test, is a hardness test

Select one:

- True
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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ratio is?

Select one:

- a. Less than or equal to 0.5
- b. Greater than 0.5 but less than or equal to 1
- c. Greater than 1 but less than or equal to 2
- d. Greater than 2 but less than or equal to 3
- e. Greater than 3

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Casting process is classified as a bulk deformation manufacturing process

Select one:

- (•) True
- ( ) False

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Question 22

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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?

Select one:

a. Less than or equal to 0.5

b. Greater than 0.5 but less than or equal to 1

c. Greater than 1 but less than or equal to 2

d. Greater than 2 but less than or equal to 3

e. Greater than 3

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Quiz (lab of manufacturing processes)

1-Which one of the following, is not a unit of ultimate tensile strength?

a) MPa
b) N/m2
c) Kg/m3
d) psi

2-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

3- Ductility is indicated by _____

a) Percentage elongation
b) Percentage reduction
c) Poisson's ratio
d) Elasticity

4-Which of the following is necessary for the complete study of surface roughness?

a) Measurement of all the components of elements

b) Analysis of all the component element

c) Assessment of the effects of combined texture

d) Measurement and analysis of all the components and assessment of combined texture

5-What is meant by roughness?

a) Minute succession of hills of different height
b) Minute succession of valleys and hills of different height and varied spacing
c) Minute succession of valleys and hills of same height and same gap
d) Minute succession of valleys of different depth

9- Which of the following is (are) used to estimate surface finish:
a- Rq and Ra only
b- Rq, Ra and Rz only
c- Ra only
d- Rq, Rz, Ra and Rs only

10- The shielding in the GMAW is provided by:

a- Weld shield
b- Inert gas
c- Arc shield
d- Shielding flux

11- The following is a test for welding application:

a- Weld immersion test
b- Bend test
c- Unbend test
d- Weld cavity test

12- The work principle of the device you used to test simulated weld q
based on:
a- Ultraviolet waves
b- Ultrasonic waves
c- Infrared rays
d- Ultra-high speed

1- When equal and opposite forces applied to a body, tend to elongate it, the stress so produced, is called _____
a) Shear stress
b) Compressive stress
c) Tensile stress
d) Transverse stress

2- . A rod 150cm long and of diameter 2cm is subjected to an axial pull of 20kN. What will be the stress?
a) 60 N/mm2
b) 65 N/mm2
c) 63.6 N/mm2
d) 71.2 N/mm2

3- The stress in a rod is 70 N/mm2 and the modulus of elasticity is 2 x 105 N/mm2. what will be the strain in the rod?
a) 0.00052
b) 0.00035
c) 0.00030
d) 0.00047

4- In a tensile test, near the elastic limit zone _____
a) Tensile stress increases in linear proportion to the stress
b) Tensile stress increases at a faster rate
c) Tensile stress decreases at a faster rate
d) None of the mentioned

5- Elastic limit is the point _____
a) up to which stress is proportional to strain
b) At which elongation takes place without application of additional load
c) Up to which if the load is removed, original volume and shapes are regained
d) None of the mentioned

11. Vickers hardness number is calculated using the equation

(a) $HV = 1.8\frac{F}{D^2}$ (b) $HV = 1.854\frac{F}{D^2}$ (c) $HV = 1.854\frac{F}{d^2}$ (d) $HV = 1.854\frac{F}{D^3}$

12. In the _____ test of hardness, a standard specimen is heated then water quenched from the end, and a series of Rockwell hardness tests are along the length of the specimen

(a) Jomery (b) Jomery (c) Jomery (d) Hardness

13. _____ must be made of a material that can withstand the heavy cutting forces and the generated heat during the cutting process

(a) Cutting tools (b) Metallic caliper

(c) Pumper (d) Electrical furnace

14. _____ is the layer adjacent to bulk metal this layer usually has been plastically deformed and work hardened during the manufacturing process

(a) Mould substrate (b) Work hardened layer (c) Surface structure (d) Contaminant

15. A _____ is the separation of an object or material into two or more pieces under the action of stress. The _____ of a solid usually occurs due to the development of certain discontinuity surfaces within the solid.

(a) Yield (b) Fracture (c) Yield (d) Strength

16. The percent elongation %EL can be found by

(a) $\%EL = \left(\frac{L_f - L_o}{L_o}\right)\times 100$ (b) $\%EL = \left(\frac{A_o - A_f}{A_f}\right)$ (c) $\%EL = \left(\frac{1}{A_f}\right)\times 100$ (d) All

17. Which of the following is a forming operation?

(a) Deep drawing (b) casting, (c) quenching (d) turning

18. The term "Casting" is relevant with _____

(a) Deep drawing (b) casting, (c) quenching, (d) turning

19. A lathe is used to perform which of the following machining operations?

(a) Deep drawing (b) casting, (c) quenching (d) turning

20. Bed of lathe is generally made by _____

(a) Cat iron, (b) Cast steel, (c) Silica sand, (d) Composite.

21. A factory that performs casting operations is usually called _____

(a) Plant (b) Factory (c) workshop (d) Foundry

22. In casting, a flask is which one of the following?

(a) Beverage bottle for foundry men, (b) box which holds the cope and drag,

(c) Container for holding liquid metal (d) metal which extrudes between the mold halves

23. In sand casting, the willamette size of pattern is which of the following relative to the cast part?

(a) Bigger, (b) same size, (c) smaller (d) Double

24. A _____ is a reservoir built into a mold casting mold to prevent cavities due to shrinkage

(a) Runner, (b) core, (c) riser (d) vent

25. _____ are the steps through which raw materials are transformed into a final product.

(a) Casting design. (b) Tensile test. (c) Casting conditions (d) Manufacturing process.

An annealed bar of copper alloy is subjected to a deformation load has a stress - strain curve given by $\sigma = 206\varepsilon^{0.3}$ MPa. The diameter of the bar is 10 mm, and the length is 500 mm. At the onset of necking calculate the following:

24. The maximum load can be applied

a. Less than 16 KN

b. Greater than or equal to 6KN and less than 16.5 KN

c. Greater than or equal to 6.5KN and less than 17.0 KN

d. Greater than or equal to 17.0KN

29. Find the ultimate engineering tensile strength.

a. Less than 100 Mpa

b. Greater than or equal to 100 Mpa and less than 120 Mpa

c. Greater than or equal to 120 Mpa and less than 130 Mpa

d. Greater than or equal to 130 Mpa

30. The length of the bar

a. Less than 535 mm

b. Greater than or equal to 535 mm and less than 560 mm

c. Greater than or equal to 560 mm and less than 565 mm

d. Greater than or equal to 565 mm

Fill- in-The blank spaces (30 Points)

1. Depending on the applied forces, measurement of ..... can be classified into macro-, micro- or nano-scale measurement.
   (a) Yield stress (b) Castability (c) hardenability (d) hardness
2. The best process for producing cans, pots and pans is:
   (a) Deep drawing (b) casting (c) quenching (d) turning.
3. Engineering stress is the:
   a. Load (force) divided by the initial cross sectional area
   b. Load (force) divided by the true cross sectional area
   c. Change in length divided by the initial length
   d. Change in length divided by the true length
4. In deep drawing process, all of the following are significant independent variables, except:
   a. Sheet thickness.
   b. The punch force
   c. The clearance between the punch and the die
   d. Punch and die corner radii.
5. The yield strength is
   a. The slope of the initial linear portion of the stress-strain curve
   b. The point on a stress–strain curve that indicates the limit of elastic behavior and the beginning of plastic behavior.
   c. The stress at the end of the stress strain curve
   d. Maximum stress on the engineering stress-strain curve
6. The change in deformation of a material with respect to time is
   (a) Modulus of elasticity (b) Strain ratio (c) Strain rate (d) Strain
7. The quantity that measures an object or substance's resistance to being deformed elastically when a stress is applied to it
   (a) Modulus of elasticity (b) Strain ratio (c) Strain rate (d) Strain
8. The tertiary cutting motion that provides necessary depth of material that is required to remove by machining is
   (a) Feed and nose radius (b) Speed and feed (c) Depth of cut (d) All
9. Which one of the following machining processes will likely result in the best surface finish?
   (a) Sawing (b) Turning (c) Milling (d) Grinding
10. In deep drawing process, when there is a high clearance between the punch and the die the length of the unsupported wall is significant in that it can lead to ..... :
    (a) Ironing (b) Stretching (c) Wrinkling (d) Tearing
11. When the thickness of the sheet metal greater than the clearance between the punch and die, the thickness will be reduced. This effect is known as .....
    (a) Ironing (b) Stretching (c) Wrinkling (d) Tearing
12. Brinell hardness number is calculated using the equation:

(a) $BHN = \frac{F}{\frac{\pi}{2}D\left(D-\sqrt{D^2-D_i^2}\right)}$ (b) $BHN = \frac{F}{\frac{\pi}{2}D\left(D-\sqrt{D^2-D_i^2}\right)}$

(c) $BHN = \frac{F}{\frac{\pi}{2}D\left(D-\sqrt{D^2-D_i^2}\right)}$ (d) $BHN = \frac{F}{\frac{\pi}{2}D\left(D-\sqrt{D-D_i}\right)}$

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Khaled Lubbad
0166616

Quiz (lab of manufacturing processes)

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d) psi

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c) Compressive strength
d) Creep strength

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b) Percentage reduction
c) Poisson's ratio
d) Elasticity

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a) Measurement of all the components of elements

b) Analysis of all the component element

c) Assessment of the effects of combined texture

d) Measurement and analysis of all the components and assessment of combined texture

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b) Minute succession of valleys and hills of different height and varied spacing
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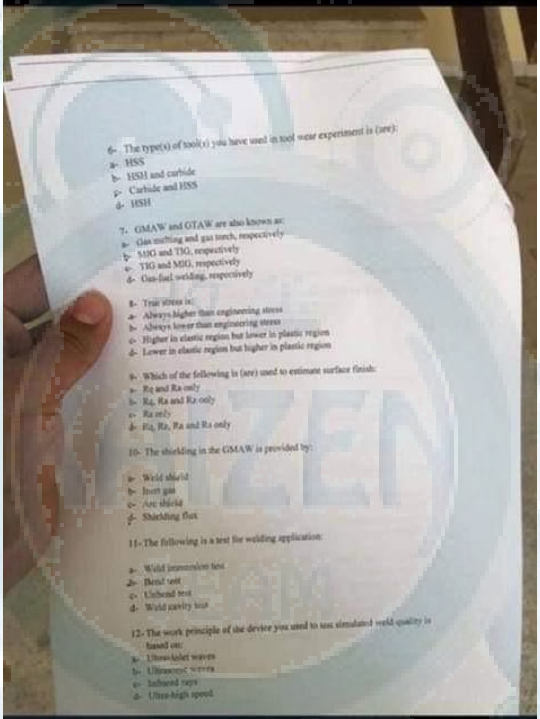
d) Minute succession of valleys of different depth



6- The type(s) of tool(s) you have used in tool wear experiment is (are):
a- HSS
b- HSH and carbide
c- Carbide and HSS
d- HSH

7- GMAW and GTAW are also known as:
a- Gas melting and gas torch, respectively
b- SMG and TIG, respectively
c- TIG and MIG, respectively
d- Gas-fuel welding, respectively

8- True stress is:
a- Always higher than engineering stress
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d- Lower in elastic region but higher in plastic region

9- Which of the following is (are) used to estimate surface finish:
a- Rz and Ra only
b- Rq, Ra and Rz only
c- Ra only
d- Rq, Rz, Ra and Rs only

10- The shielding in the GMAW is provided by:
a- Weld shield
b- Inert gas
c- Arc shield
d- Shielding flux

11- The following is a test for welding application:
a- Weld immersion test
b- Bend test
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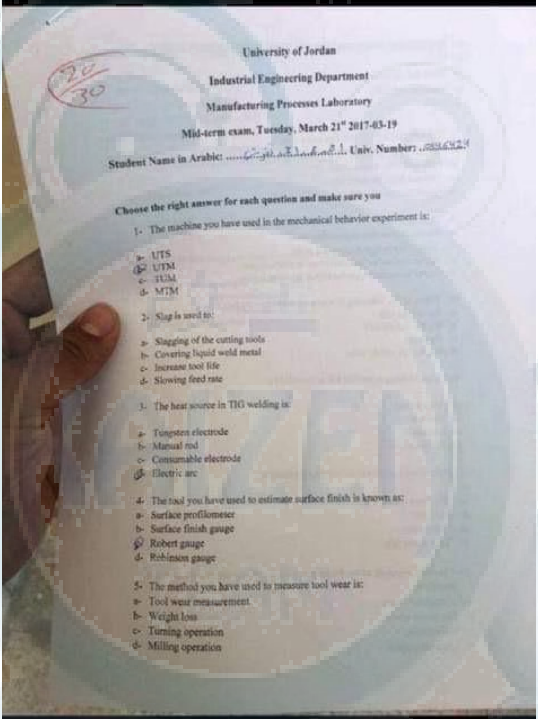
12- The work principle of the device you used to test simulated weld quality is based on:
a- Ultraviolet waves
b- Ultrasonic waves
c- Infrared rays
d- Ultra-high speed

More

Edit



University of Jordan

Industrial Engineering Department

Manufacturing Processes Laboratory

Mid-term exam, Tuesday, March 21st 2017-03-19

Student Name in Arabic: ..... Univ. Number: .....

Choose the right answer for each question and make sure you

1- The machine you have used in the mechanical behavior experiment is:

a- UTS
b- UTM
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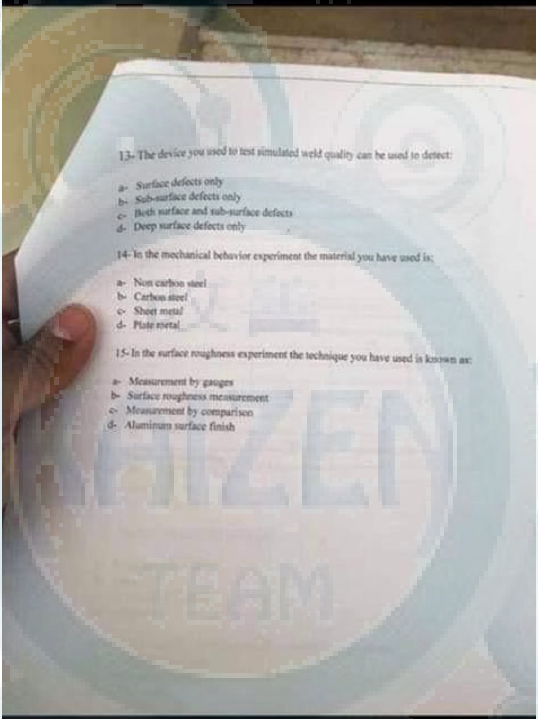

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14- In the mechanical behavior experiment the material you have used is:

a- Non carbon steel
b- Carbon steel
c- Sheet metal
d- Plate metal

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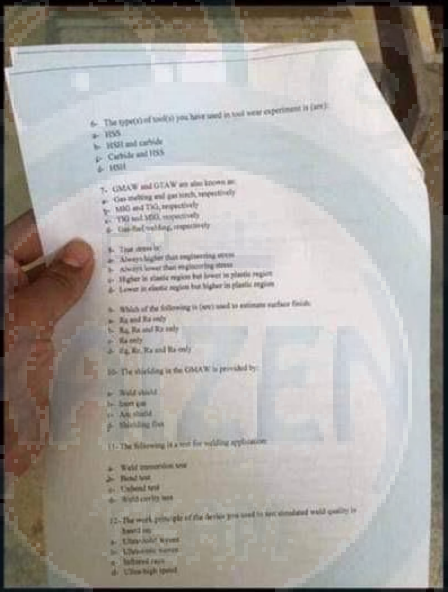
a- Measurement by gauges
b- Surface roughness measurement
c- Measurement by comparison
d- Aluminum surface finish



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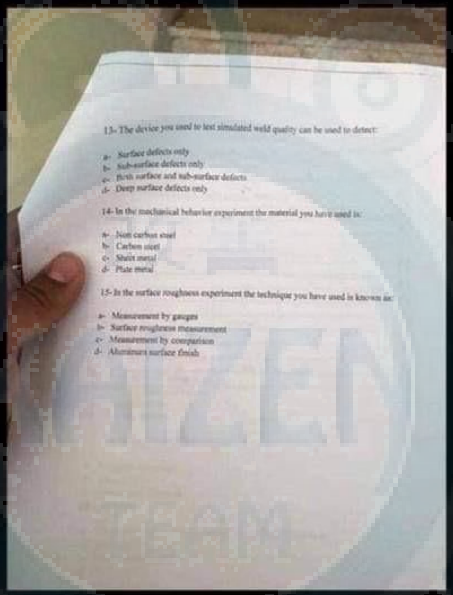
a- Ultra-violet layout
b- Ultra-sonic waves
c- Infrared rays
d- Ultra-high speed



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Cutting conditions: ① cutting speed(v) → speed which the workpiece with respect to the tool
② depth of cut → distance that the tool bit moves into the work piece
③ Feed Rate → distance that the tool travels during one Revolution of the part

Cutting conditions ① cutting speed(v) → speed which the workpiece with respect to the tool
② depth of cut → distance that the tool bit moves into the work piece
③ Feed Rate → distance that the tool travels during one Revolution of the part

Cutting operation: workpiece is brought to final product that has specified geometry by removing material and use machine tools. The Results are ① final product
② chips (Waste)

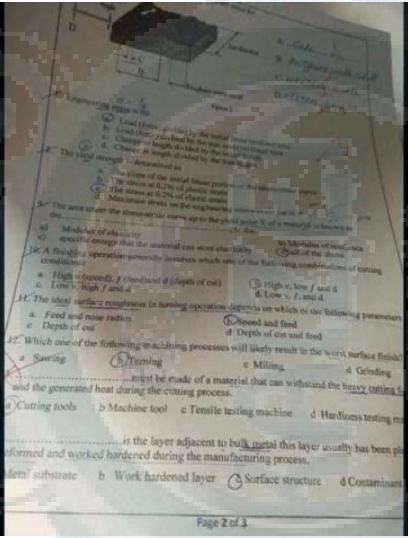
Types of cutting tools: ① Multipoints Tools → Milling/drilling
② single point → Turning/Planning

Factors influencing Surface integrity:
① Temp during process ② Residual Stresses ③ Phase Transformation
④ Plastic deformation ⑤ defects

caused by these factors

① Defects in original Material
② Method by which the surface is produced
③ Lack of control of process parameters

Conditions to have good surface finish:
① No build-up edge during processing
② No vibrations
③ " defects in the metal
④ the movements of the machine under control



Page 2 of 3

[redacted]

Q1: The blank spaces (30 Points)

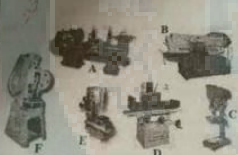
1. There are three principal ways in which forces may be applied during deformation processes, namely ... Tension, Force ... Compression, Force ... and shear

2. The degree of deformation to which the material is subjected is defined as ... Strain ...

3. The ... Stress - Strain ... test is used to ascertain several mechanical properties of materials that are important in design.

4. Engineering stress σ is defined by the relationship σ = F/A, in which F is the load applied, and A is ... Original area ...

5. Reference to figure 1, Letters A through F are stand for



A: Lath Machine

B: Screw Machine

C: Drilling Machine

D: Milling Machine

E: Shaping Machine

F: Hydrolic Pressure

Figure 1

13. The ..... is the stress at the maximum on the engineering stress-strain curve (A)

a Tensile strength b Fracture strength c Yield strength d Recrystallization strength

16. The percent elongation %EL can be found by (D)

a $\%EL = \left(\frac{l_f - l_o}{l_o}\right) \times 100$ b $\%EL = \left(\frac{A_o - A_f}{A_o}\right) \times 100$

c (a) or (b) d All of the above

17. In general the following sub-processes are involved in casting process:

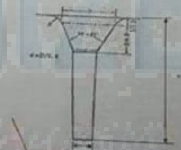
1. Casting design.
2. melt making ..above.. the Melting process.
3. Tapping and pouring techniques.
4. Mold cavity.
5. Cooling ..... Solidification process.
6. Shakeout process.
7. Shot blasting process
8. Grinding ..... Fettling and finishing
9. Heat treatment
10. Painting of final castings (products).

18. ..... is a mixture of sand, clay and water

a Cold-box molds b Green molding sand c. No-bake molds c. Permanent molds

19. Riser & Runner ..... are elements of the gating and feeding system, which are intended for displacing shrinkage cavity and porosity outside of the casting.

20. The below figure represents A.....



a. Sprue b. Runner c. gate d. Vent

Provide a short answer or select the best answer for the multiple choice questions:

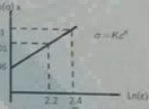
1. Figure-out the odd point in the following:
(a) Proportional limit (b) Elastic limit (c) Yield point (d) Fracture point

2. Toughness of a material is equal to area under _____ part of the stress-strain curve.
(a) Elastic (b) Plastic (c) Both (d) None

3. As compared with engineering stress-strain curve, the true stress-strain curve is
(a) Above (b) Below (c) left (d) right to the engineering curve

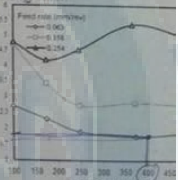
4. The metal sample used in the tensile test experiment had a _____ cross section.
(a) Circular (b) square (c) rectangular (d) thin rectangular (sheet metal)

5. The diagram shown is a logarithmic (ln) stress strain diagram for hardened steel. Based on the information on the diagram, what is the strain hardening coefficient



6. What do you expect the arithmetic mean value of surface roughness to be for the cutting operation shown below knowing that the feed rate is 0.063 mm/rev and curing speed is 400 m/min?

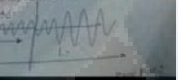
7. If you have a curing operation for to smooth the surface of a part on a drilling machine using a round curing tool and curing direction is from the center of the surface to the edge of the surface. Draw the direction of lay you recommend for the surface roughness measurement and put next to it the symbol you should use to present the surface roughness



8. In your experiment you used a rubbing gage to determine the roughness of the surface. You had two rubbing gages to use which one did you use for that experiment?
(a) Flat gage (b) curved gage (c) profilometer (d) both (a) and (b)

9. Show in clear drawing a surface having both surface roughness and waviness

10. For the following surface roughness lay how do you expect the (Ra) values to be for L_1 and L_2?
a. Ra-1<Ra-2
b. Ra-1=Ra-2
c. Ra-1>Ra-2
d. no relation between Ra-1 and Ra-2



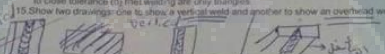
11. Choose the correct layout symbol for the following surface roughness picture:
a. C b. M c. X d. =

12. What type of welding experiment did we make in the welding workshop?
(a) Forge welding (b) friction stir welding (c) fusion welding (d) resistance welding

13. The following welding is of what type?
(a) Groove welding (b) Fillet welding (c) Plug welding (d) slot welding

14. Fillet welds is preferred over groove welding for one of the following reasons:
(a) Greater resistance to stress (b) Easy to make connections with Fillet welding (c) parts need to be cut to close tolerance (d) fillet welding are only triangles

15. Show two drawings: one to show a vertical weld and another to show an overhead weld:



16. What was the rule of thumb (standard method) used in the welding experiment to determine the amount of electric current based on the electrode diameter?

17. Sand casting is which of the following types: (a) expendable mold or (b) permanent mold?
18. The upper part of a sand casting mold is called which of the following: (a) cope or (b) drag?
19. In casting, a riser is which one of the following: (a) beverage bottle for foundry men, (b) box which holds the cope and drag, (c) container for holding liquid metal, or (d) metal which extrudes between the mold halves?
20. In foundry work, a runner is which one of the following: (a) channel in the mold leading from the downsprue to the main mold cavity, (b) foundryman who moves the molten metal to the mold, or (c) vertical channel into which molten metal is poured into the mold?
21. In sand casting, the pattern is (a) bigger than, (b) the same size as, or (c) smaller than the cast part?
22. Which of the following are advantages of sand casting over sand casting (four best answers): (a) better surface finish, (b) cored can be reused, (c) higher melting temperature metals, (d) higher production rates, (e) larger parts can be cast, and (f) closer tolerances?

The University of Jordan
Faculty for Engineering
Department of Industrial Engineering
(Manufactering Processes Lab) quiz1

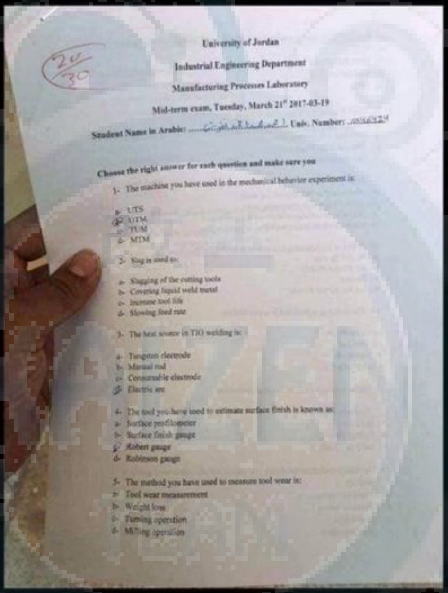
1- What is the stress-strain curve?
a) It is the percentage of stress and stain
b) It is the relationship between stress and strain
c) It is the difference between stress and strain
d) None of the mentioned

2- . A rod 150cm long and of diameter 2cm is subjected to an axial pull of 20kN. What will be the stress?
a) 60 N/mm2
b) 65 N/mm2
c) 63.6 N/mm2
d) 71.2 N/mm2

3- A tensile test was conducted on mild steel bar. The load at elastic limit was 250kN and the diameter of the steel bar was 3cm. What will be the value of stress?
a) 35368 x 104 N/m2
b) 32463 x 104 N/m2
c) 35625 x 104 N/m2
d) 37562 x 104 N/m2

4- The slope of the stress-strain curve in the elastic deformation region is _____
a) Elastic modulus
b) Plastic modulus
c) Poisson's ratio
d) None of the mentioned

5- Elastic limit is the point_____
a) up to which stress is proportional to strain
b) At which elongation takes place without application of additional load
c) Up to which if the load is removed, original volume and shapes are regained
d) None of the mentioned



University of Jordan

Industrial Engineering Department

Manufacturing Processes Laboratory

Mid-term exam, Tuesday, March 21st 2017-03-19

Student Name in Arabic: ..... Univ. Number: .....

Choose the right answer for each question and make sure you

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More

Edit

... the exam. All phones must be turned off ... phone calculator.
... Arabic language in all assigned place(s)
... this exam are (3) pages.
... Submitting all the pages of the exam is necessary.
6 Place and time: [redacted]

[redacted] الرقم الج... [redacted] ...اسم ال

3 (10/10)

Fill in the blank spaces (30 Points)

1. There are three principal ways in which forces may be applied during deformation processing: namely ...Tension force......... Compression force.... and shear
2. The degree of deformation to which the material is subjected is defined as ..Strain.........
3. The ....Stress - strain.............. test is used to ascertain several mechanical proper... of materials that are important in design.
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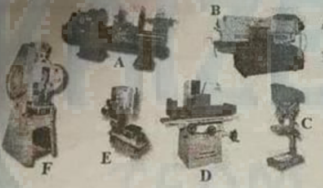
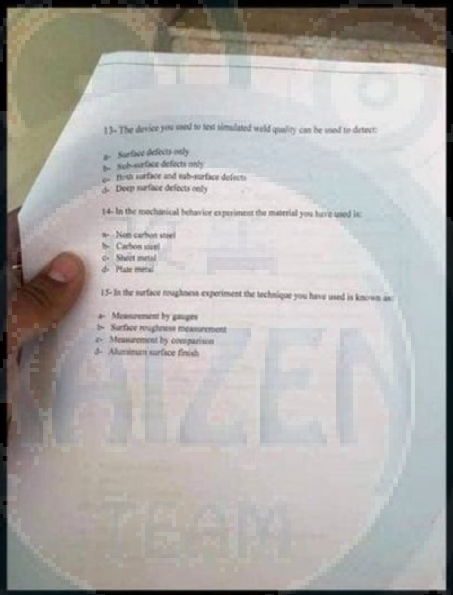


A: Lath Machine.........
B: ...Bandsaw.... Machin...
C: .....Drilling Machin...
D: ...milling.... Machin....
E: ...Slotering.... Machin....
F: ...Hydrolic.... Pressure...

Figure 1



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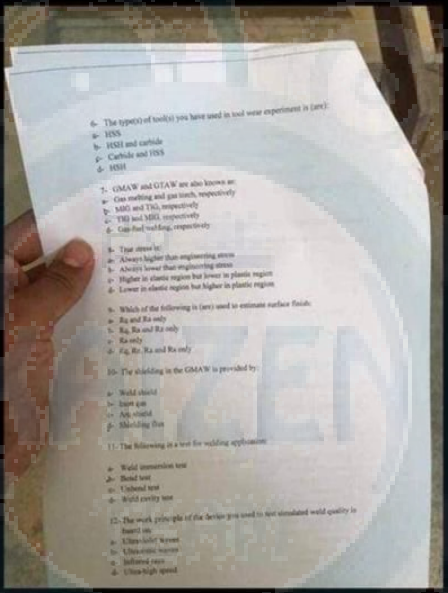

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Read Carefully the Following Important Notes

Page 1 of 2

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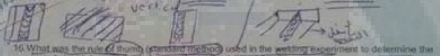

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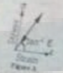
Part No. 3 CLO?: Understand mechanical behavior of materials, and testing for their properties (9 points) SO: e

1. The slope of the stress-strain curve in the elastic deformation region is [illegible]
2. The slope of the stress-strain curve in the elastic deformation region is [illegible]
3. There are three principal ways in which forces may be applied during deformation processing namely: [illegible]
4. The degree of deformation to which the material is subjected is defined as [illegible]
5. Shear and elastic moduli are related to each other and to Poisson's ratio according to the equation [illegible]
6. [illegible] may be expressed quantitatively as either percent elongation or percent area reduction.
7. At the onset of necking, [illegible] is equal to the strain hardening exponent (n).



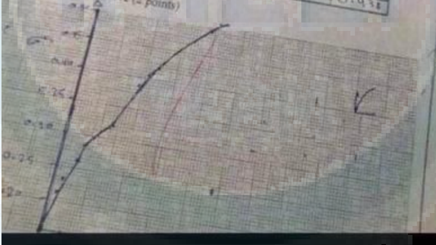
8. Figure A represents an idealized stress-strain curves for [illegible] material
9. The formula that best describe the idealized stress-strain curves in figure B is [illegible]

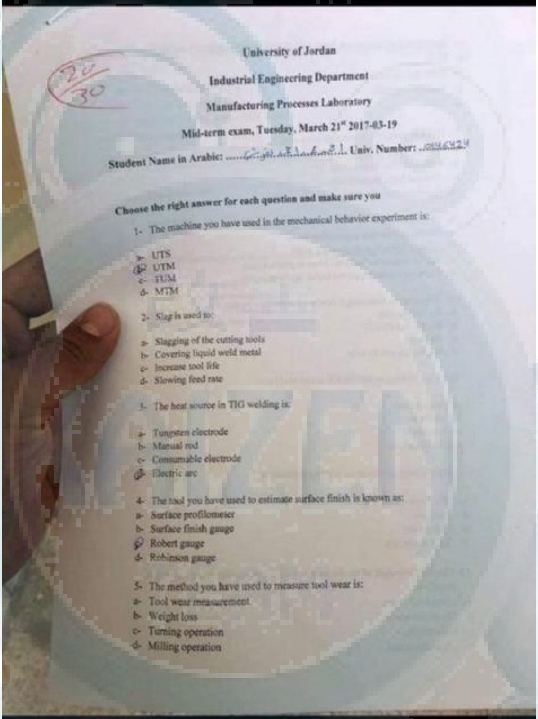
Part No.4 CLO?: Understand mechanical behavior of materials, and testing for their properties (6 points) SO: e

A metallic bar is subjected to a deformation load as shown in the table below. The diameter of the bar is 12.7 mm and the length is 50.8 mm.

Load (KN)	Elongation (mm)	Engineering Stress (KN/mm²)	Engineering Strain (e)	True Stress (KN/mm²)	True Strain (ε)
0.0	0.0	0	0	0	[illegible]
[illegible]	1.1	0.233	0.02	0.237	[illegible]
[illegible]	3.4	0.258	0.066	0.275	0.063
[illegible]	5.6	0.291	0.11	0.323	0.104
[illegible]	10.1	0.322	0.193	0.385	0.18
[illegible]	12.4	0.329	0.244	0.41	0.213
[illegible]	14.6	0.334	0.287	0.429	0.252
[illegible]	22.6	0.340	0.464	0.497	0.381
[illegible]	25.8	0.339	0.507	0.5109	0.41
[illegible]	28.0	0.330	0.55	0.511	0.438

[illegible] the above table (4 points)
[illegible] the true stress-strain curve (2 points)





University of Jordan

Industrial Engineering Department

Manufacturing Processes Laboratory

Mid-term exam, Tuesday, March 21st 2017-03-19

Student Name in Arabic: ..... Univ. Number: .....

Choose the right answer for each question and make sure you

1- The machine you have used in the mechanical behavior experiment is:

a- UTS
b- UTM
c- TUM
d- MTM

2- Slag is used to:

a- Slagging of the cutting tools
b- Covering liquid weld metal
c- Increase tool life
d- Slowing feed rate

3- The heat source in TIG welding is:

a- Tungsten electrode
b- Manual rod
c- Consumable electrode
d- Electric arc

4- The tool you have used to estimate surface finish is known as:

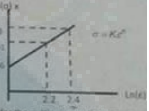
a- Surface profilometer
b- Surface finish gauge
c- Robert gauge
d- Robinson gauge

5- The method you have used to measure tool wear is:

a- Tool wear measurement
b- Weight loss
c- Turning operation
d- Milling operation

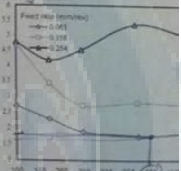
Provide a short answer or select the best answer for the multiple choice questions:

1. Figure-out the odd plant in the following
   Proportional limit (b) Elastic limit (c) Yield point (d) Fracture point
2. Toughness of a material is equal to area under _____ part of the stress-strain curve.
   (a) Elastic (b) Plastic (c) Both (d) None
3. As compared with engineering stress-strain curve, the true stress-strain curve is
   (a) Above (b) Below (c) left (d) right to the engineering curve
4. The metal sample used in the tensile test experiment had a _____ cross section
   (a) circular (b) square (c) rectangular (d) thin rectangular (sheet metal)
5. The diagram shown is a logarithmic (ln) stress strain diagram for hardened steel. Based on the information on the diagram, what is the strain hardening coefficient



6. What do you expect the arithmetic mean value of surface roughness to be for the cutting operation shown below knowing that the feed rate is 0.063 mm/rev and cutting speed is 400 m/min?

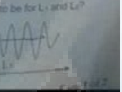
7. If you have a cutting operation for to smooth the surface of a part on a milling machine using a round cutting tool and cutting direction is from the center of the surface to the edges of the surface. Draw the direction of lay you recommend for the surface roughness measurement and put next to it the symbols you should use to present the surface roughness

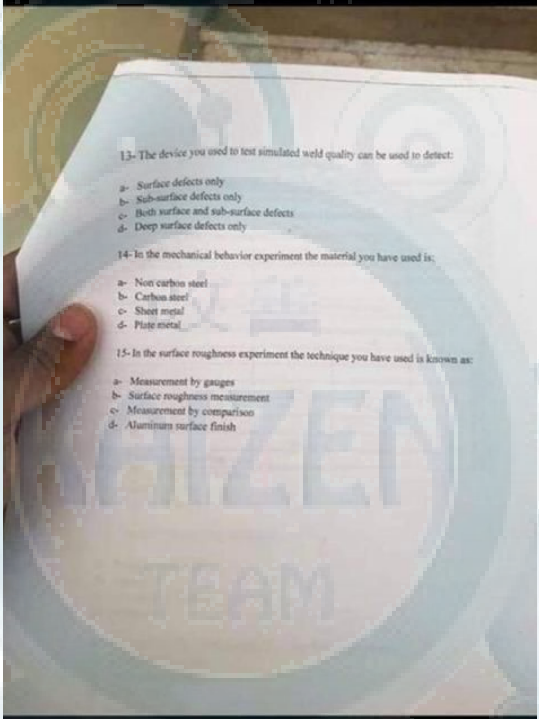


8. In your experiment you used a rubbing gage to determine the roughness of the surface. You had two rubbing gages to use which one did you use for that experiment?
   (a) Flat gage (b) curved gage (c) profilometer (d) both (a) and (b)

9. Show in clear drawing a surface having both surface roughness and waviness

10. For the following surface roughness lay how do you expect the (Ra) values to be for L_1 and L_2?
    a. Ra-1<Ra-2
    b. Ra-1=Ra-2
    c. Ra-1 > Ra-2
    d. no relation between Ra-1 and Ra-2





13- The device you used to test simulated weld quality can be used to detect:

a- Surface defects only
b- Sub-surface defects only
c- Both surface and sub-surface defects
d- Deep surface defects only

14- In the mechanical behavior experiment the material you have used is:

a- Non carbon steel
b- Carbon steel
c- Sheet metal
d- Plate metal

15- In the surface roughness experiment the technique you have used is known as:

a- Measurement by gauges
b- Surface roughness measurement
c- Measurement by comparison
d- Aluminum surface finish

During a Brinell hardness test of a specific material, a load (P = 3-kilogram force) is imposed through a spherical steel indent of a diameter (D = 5 mm), the resultant depression diameter (d_i = 1.5 mm), the Brinell hardness number (BHN) is?

Select one:

- a. Less than or equal to 0.5
- b. Greater than 0.5 but less than or equal to 2
- c. Greater than 2.5 but less than or equal to 3
- d. Greater than 2 but less than or equal to 2.5
- e. Greater than 3

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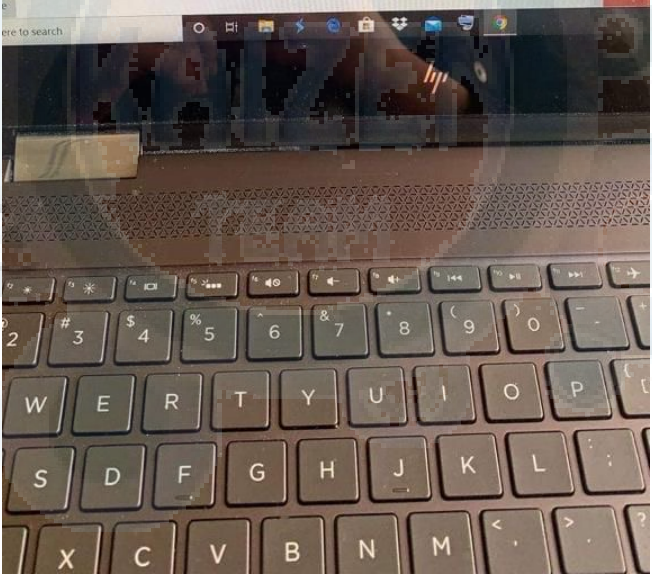

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In deep drawing, a low blank holder force can lead to

Select one:

- a. Ironing
- b. Wrinkling
- c. Stretching
- d. Pure Drawing

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11.2 In sand casting, the volumetric size of the pattern is (a) bigger than, (b) same size as, or (c) smallerthan the cast part?

Answer. (a).

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For a casting of modulus (2), the modulus of riser that should be selected is?

Select one:

- a. Less than or equal to 0.5
- b. Greater than 0.5 but less than or equal to 1
- c. Greater than 1 but less than or equal to 2
- d. Greater than 2 but less than or equal to 3
- e. Greater than 3

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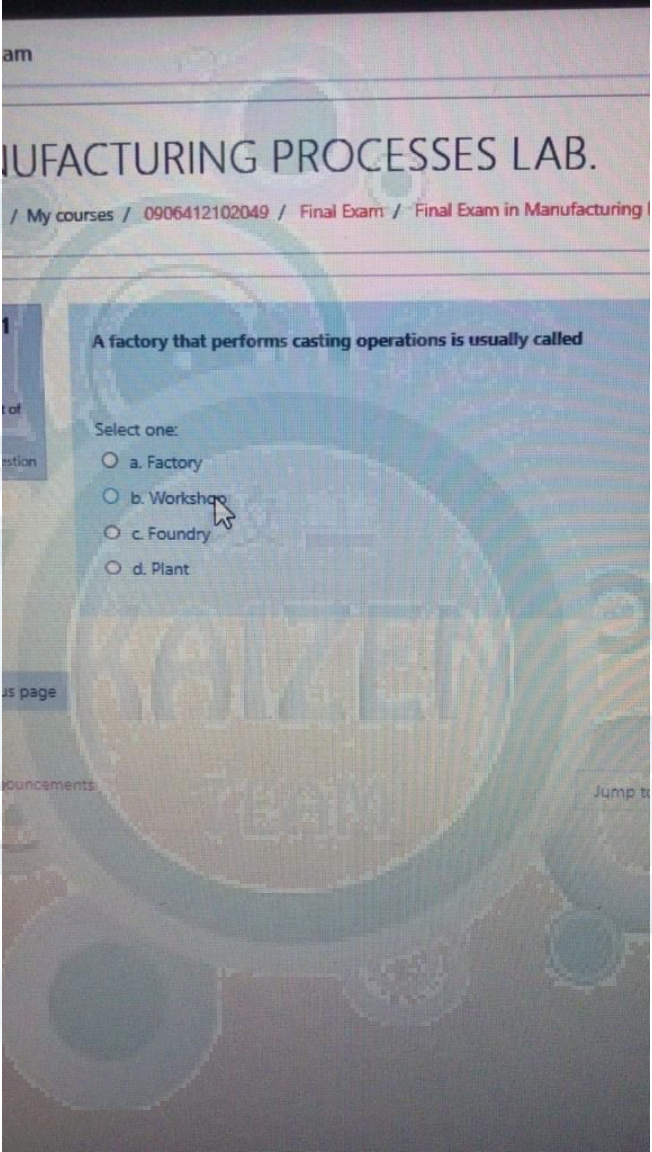
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UFACTURING PROCESSES LAB.
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A factory that performs casting operations is usually called
Select one:
a. Factory
b. Workshop
c. Foundry
d. Plant
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Experiment (3)

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The yield strength is

Select one:

- a. The slope of the initial linear portion of the stress-strain curve
- b. Maximum stress on the engineering stress-strain curve
- c. The stress at the end of the stress strain curve
- d. The point on a stress-strain curve that indicates the limit of elastic behavior

Clear my choice

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Roughness is expressed in terms of its height, its width, and the hardness on the surface along which it is measured

Select one:

- True
- False

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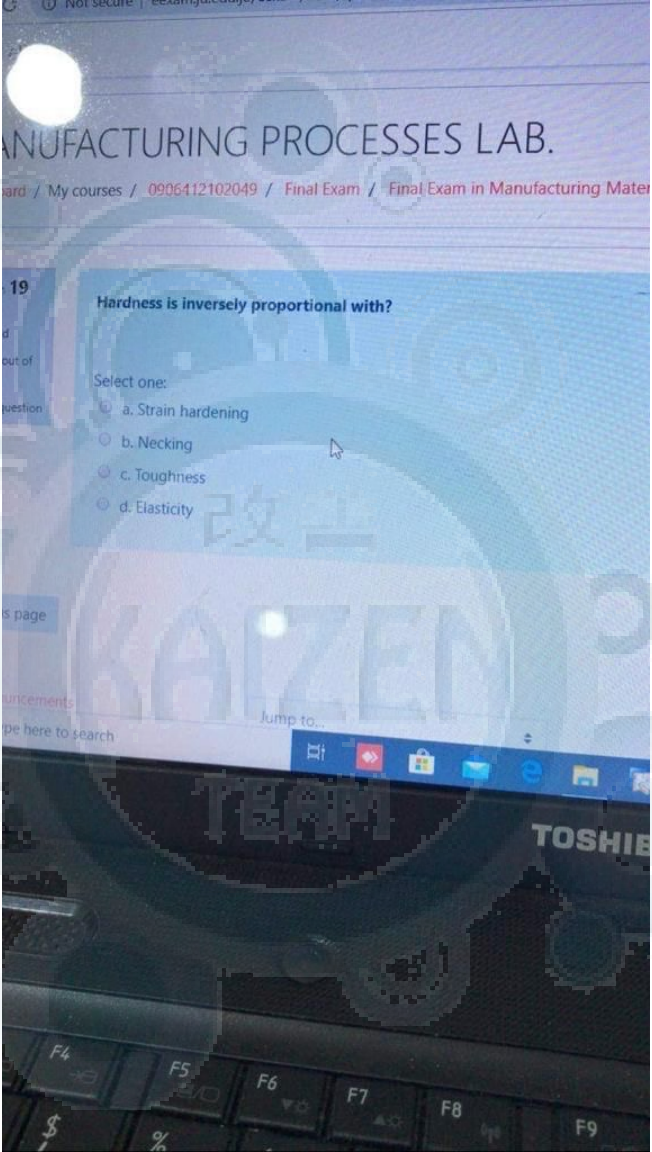
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19
Hardness is inversely proportional with?
Select one:
a. Strain hardening
b. Necking
c. Toughness
d. Elasticity
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Flame cutting process produces a bad surface finish

Select one:

- True
- False

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Casting process is classified as a bulk deformation manufacturing process

Select one:

- (•) True
- ( ) False

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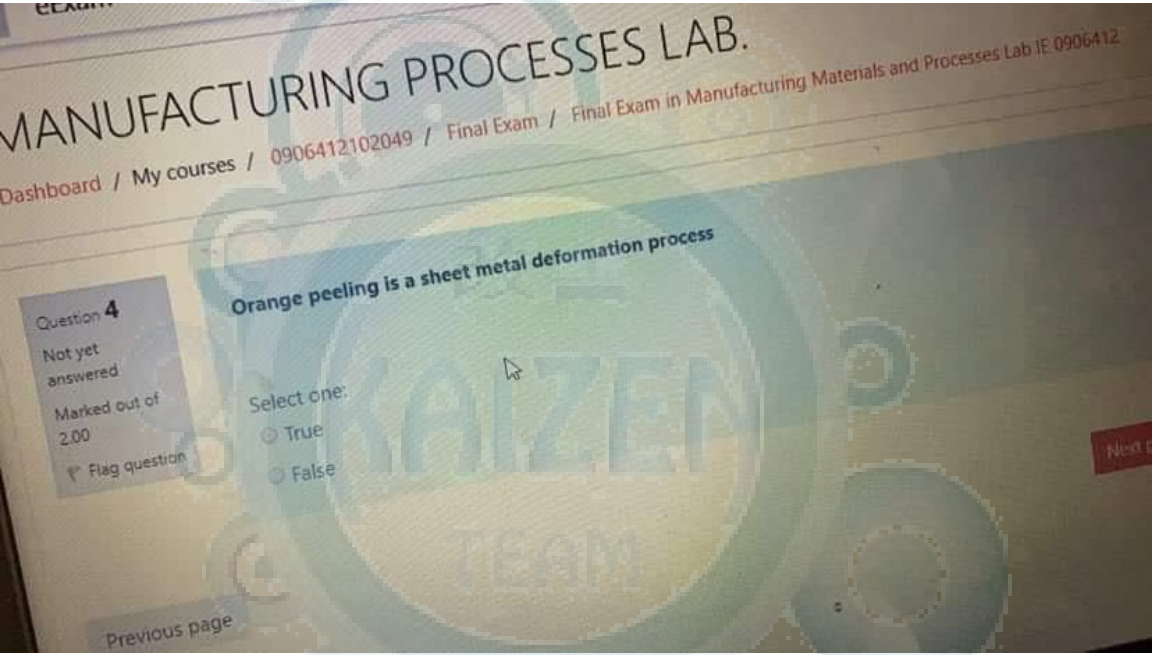
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Question 4
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Flag question
Orange peeling is a sheet metal deformation process
Select one:
True
False
Previous page

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Question 22

Not yet answered

Marked out of 2.00

Flag question

A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?

Select one:

a. Less than or equal to 0.5

b. Greater than 0.5 but less than or equal to 1

c. Greater than 1 but less than or equal to 2

d. Greater than 2 but less than or equal to 3

e. Greater than 3

Roughness is expressed in terms of its height, its width, and the hardness on the surface along which it is measured

Select one:

- True
- False

Next page

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Hardenability is the ability of the material to be hardened after a heat treatment:

Select one:

- True
- False

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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?

Select one:

- a. Less than or equal to 0.5
- b. Greater than 0.5 but less than or equal to 1
- c. Greater than 1 but less than or equal to 2
- d. Greater than 2 but less than or equal to 3
- e. Greater than 3

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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn into a cup having a uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ratio is?

Select one:

- a. Less than or equal to 0.5
- b. Greater than 0.5 but less than or equal to 1
- c. Greater than 1 but less than or equal to 2
- d. Greater than 2 but less than or equal to 3
- e. Greater than 3

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Question 24

Not yet answered

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A .....is a reservoir built into a metal casting mold to prevent cavities due to shrinkage

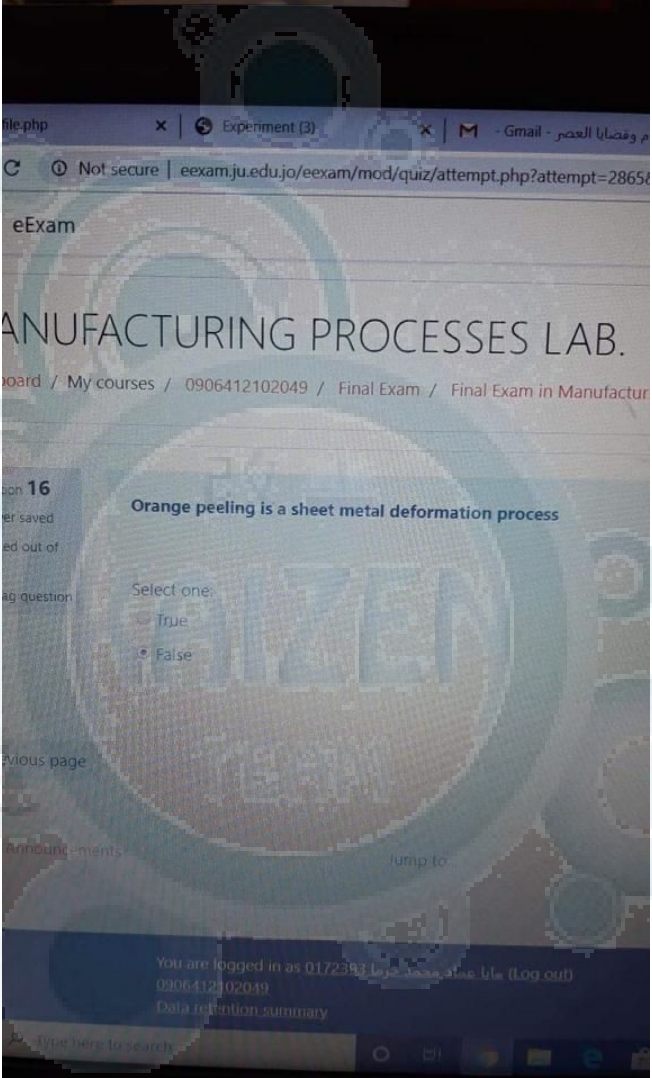
Select one:

a. Vent

b. Sprue

c. Runner

d. Riser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8

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The distance the tool travels during one revolution of the part in turning is known as:

Select one:

- a. Material removal rate
- b. Feed rate
- c. Cutting speed
- d. Depth of cut

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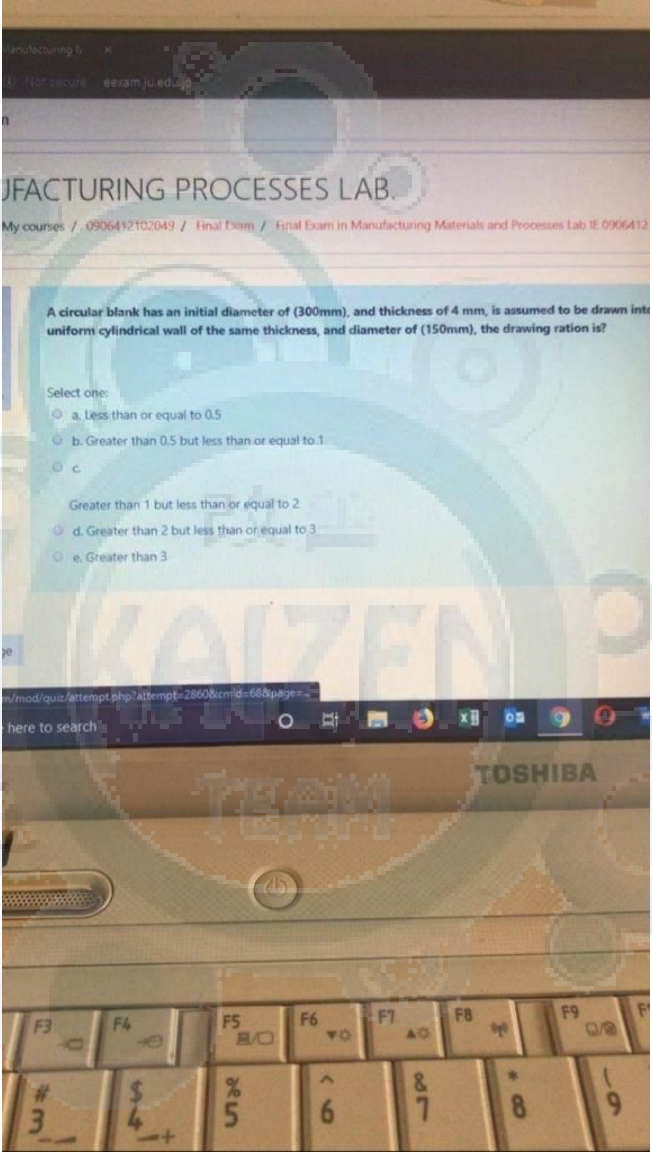
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A circular blank has an initial diameter of (300mm), and thickness of 4 mm, is assumed to be drawn int
uniform cylindrical wall of the same thickness, and diameter of (150mm), the drawing ration is?
Select one:
a. Less than or equal to 0.5
b. Greater than 0.5 but less than or equal to 1
c.
Greater than 1 but less than or equal to 2
d. Greater than 2 but less than or equal to 3
e. Greater than 3
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Which one of the following materials has the highest hardness?

Select one:

- a. Cast iron
- b. High carbon steel
- c. Ceramic
- d. Hardened tool steel

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