

Clear my choice

Question 29

Not yet
answered

Marked out of
1.00

Flag
question

The error in measurement due to the deformation of a workpiece is an example on avoidable error.

Select one:

☐ True

☒ False

Question 30

Not yet
answered

When the basic size of a hole is equal to 35 mm, the upper deviation is equal to $(+0.01)$, and the lower deviation is equal to (-0.02 mm) , then the maximum metal limit for the hole is -----

Periodic calibration of the measuring device can eliminate or minimize the random error

Select one:

- ☐ True
- ☒ False

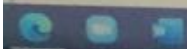
The sine bar by itself is not a complete measuring instrument. Accessories such as a surface plate, slip gauges, etc are needed to accomplish the measurement process.

Select one:

- ☒ True
- ☐ False

Next page

uch



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☐ False

the fundamental deviation for the hole (A) is equal to the negative value of the fundamental deviation for the shaft (a)

Select one:

☒ True

☐ False

In a shaft and hole system the upper deviation of the hole is always greater than the lower deviation of the shaft.

Select one:

☐ True

☐ False

Next page



Question 6

Not yet answered

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When the basic size of a shaft is equal to 35 mm, the upper deviation and the lower deviation for the shaft are $(+ 0.00 \text{ mm})$, $(- 0.02 \text{ mm})$ respectively. The type of tolerance for this shaft is called-----

- ☒ a. Unilateral tolerance
- ☐ b. Bilateral tolerance
- ☐ c. Both A and B are correct
- ☐ d. None of the above is correct

Clear my choice

Type here to search

ENG 4:03
US 11/25

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question

Select one:

- ☐ True
☒ False

Question 12

Not yet
answered

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1.00

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question

Accuracy is the degree of repetitiveness of the measuring process.

Select one:

- ☐ True
☒ False

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METROLOGY & ENG. MEASUREMENTS

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METROLOGY & ENG. MEASUREMENTS

General

Mid exam(0936441)

The vernier height gauge and the vernier depth gauge is used for the same purpose.

Select one:

☐ True☒ False

The accuracy of the vernier bevel protractor, (shown in the figure), is -----



DELL



- ☐ a. 1 minute
- ☐ b. 5 minutes
- ☐ c. 5 seconds
- ☐ d. 1 second

The systematic error is easier to detect when compared with the random error

Select one:

- ☐ True
- ☒ False

DELL

Question 7

Not yet answered

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Metric (103) pieces

	Increment
1 piece (1.005) mm	
49 pieces (1.01 to 1.49) mm	0.01
49 pieces (0.5 to 24.5) mm	0.5
4 pieces (25- 100) mm	25

use the set of blocks in the table above

what is the minimum number of blocks to produce an overall dimension of 76.575 mm?
(ignore the using of wear blocks)

- ☐ a. 3
- ☒ b. 4
- ☐ c. 5
- ☐ d. 6

[Clear my choice](#)

Quiz navigation

1	2	3	4
7	8	9	10
13	14	15	16
19	20	21	22
25	26	27	28

Finish attempt ...

Time left 0:30:14

☐ c. 5

☐ d. 6

[Clear my choice](#)

Question 8

Not yet
answered

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question](#)

When the basic size of a hole is equal to 35 mm, the upper deviation is equal to $(+ 0.10)$, and the lower deviation is equal to $(+ 0.01 \text{ mm})$. then the minimum metal limit for the hole is-----

☐ a. 34.90 mm

☐ b. 34.99 mm

☐ c. 35.01 mm

☒ d. 35.10 mm

[Clear my choice](#)

Question 9

Not yet
answered

For a shaft and a hole system, if the minimum diameter of the shaft is larger than the maximum diameter of the hole, then the type of fit between the shaft and the hole is called

Question 10

Not yet answered

Marked out of 1.00

Flag question

Inspection is defined as a procedure in which a part or product characteristic, such as a dimension, is examined to determine whether it conforms to the design specification.

Select one:

- ☒ True
☐ False

Question 11

Not yet answered

Marked out of 1.00

Flag question

Periodic calibration of the measuring device can eliminate or minimize the random error

Select one:

- ☐ True
☒ False

Question 12

Accuracy is the degree of repetitiveness of the measuring process.

Quiz navigation

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19	20	21	22
25	26	27	28

Finish attempt ...

Time left 0:25:17

Type here to search

edujo/mod/quiz/attempt.php?attempt=

☐ e. all of the above are correct

Clear my choice

The difference between the true value of the quantity being measured and the indicated value is called -----

☐ a. Datum error

☒ b. Reading error

☐ c. parallax error

☐ d. zero error

Clear my choice

Question 2

Not yet answered

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9:01 AM
1/25/2020

Not yet
answered
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1.00
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question



The reading of the vernier bevel protractor is -----

- ☐ a. 50 degree and 15 minutes
- ☐ b. 49 degree and 20 minutes
- ☒ c. 50 degree and 20 minutes
- ☐ d. 51 degree and 20 minutes

[Clear my choice](#)

Search for anything





Question 9

Not yet answered

Marked out of 1.00

Flag question

For a shaft and a hole system, if the minimum diameter of the shaft is larger than the maximum diameter of the hole, then the type of fit between the shaft and the hole is called

- ☐ a. clearance
- ☒ b. interference
- ☐ c. transition
- ☐ d. both A and B are correct
- ☐ e. all of the above are correct

[Clear my choice](#)



Question 3

Not yet
answered

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1.00

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question

Which of the following statements is true

- ☒ a. The micrometer conforms to Abbe's principle of alignment, while the vernier caliper doesn't conform.
- ☐ b. The vernier caliper conforms to Abbe's principle of alignment, while the micrometer doesn't conform.
- ☐ c. Both the vernier caliper and the micrometer conform to Abbe's principle
- ☐ d. none of the above is correct

Clear my choice

Question 4

Not yet answered

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Flag question

The inside micrometer is an example on the indirect measuring devices.

Select one:

☐ True

☐ False

Question 5

Not yet answered

Marked out of 1.00

Flag question

The random error can't be eliminated by repeated measurements

Select one:

☐ True

☐ False

Question 6

When the basic size of a hole is 10 mm and the tolerance is 0.05 mm, the upper limit of the hole is 10.05 mm.



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METROLOGY & ENG.MEASUREMENTS

General

Mid exam(0936441)

Question 13

Not yet answered

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In a shaft and hole system the upper deviation of the hole is always greater than the lower deviation of the shaft.

Select one:

- ☐ True
☐ False

Question 14

Not yet answered

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Flag question





jo/mod/quiz/attempt.php?attempt=133135&cmid=275472

When the basic size of a hole is equal to 35 mm, the upper deviation is equal to $(+0.01)$, deviation is equal to (-0.02 mm) . then the maximum metal limit for the hole is -----

- ☐ a. 35.01 mm
- ☐ b. 35.00 mm
- ☐ c. 34.99 mm
- ☒ d. 34.98 mm

Clear my choice

The error in measurement due to the deformation of a workpiece is an example on avoidable error

Select one:

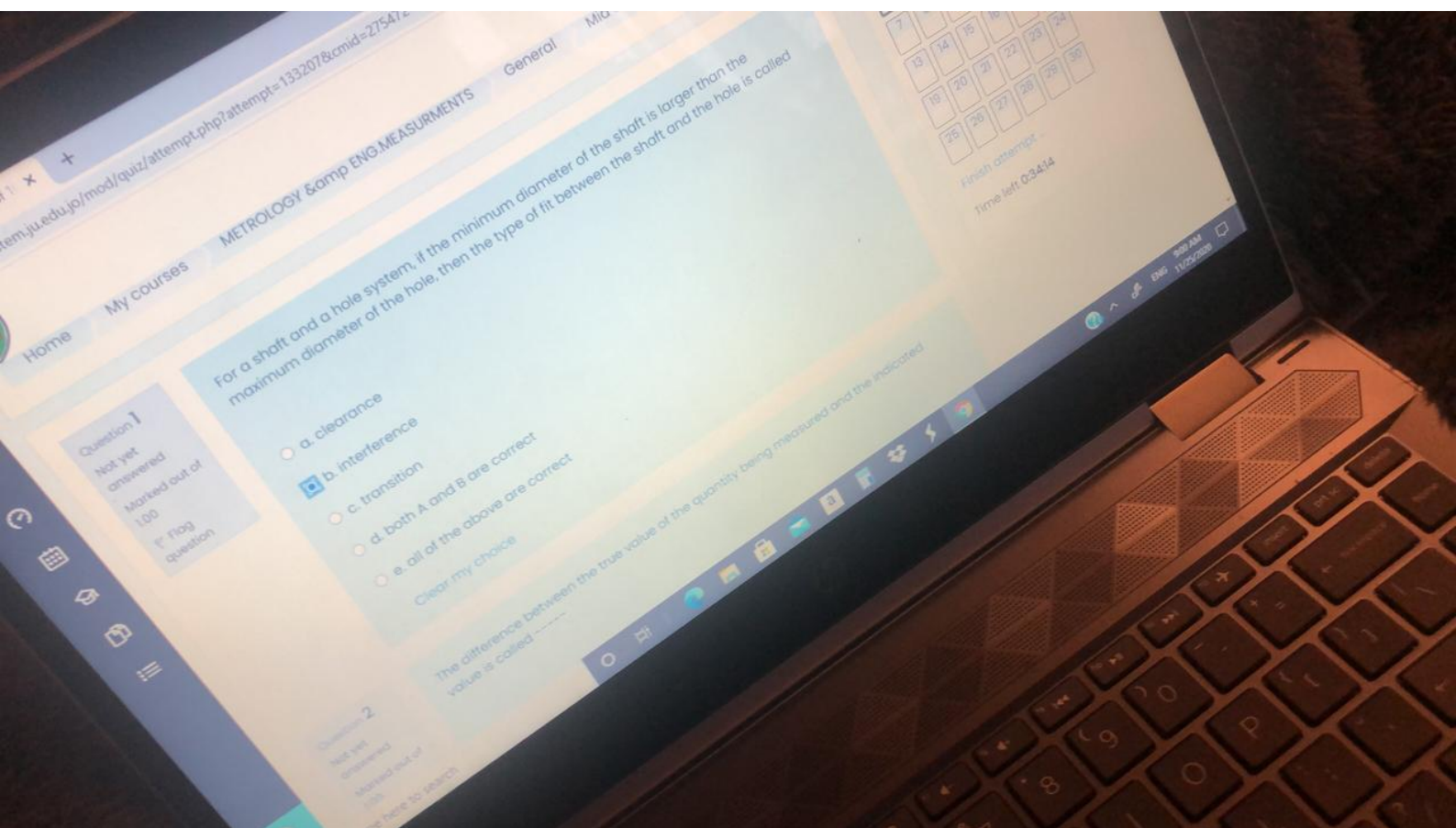
True

False

The difference between the true value of the quantity being measured and the indicated value is called

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quiz #1 section 1 - Microsoft Word

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Font Paragraph Styles

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AaBbCcDd E Normal E No Spad... AaBbCc Heading 1 AaBbCc Heading 2 AaB Title AaBbCc Subtitle

Quiz #1

A shaft of $50^{+0.02}_{-0.02}$ is to be assembled with a hole of $50^{+0.05}_{-0.03}$

1. The maximum diameter for the shaft is -----
2. The minimum diameter for the shaft is -----
3. The maximum diameter for the hole is -----
4. The minimum diameter for the hole is -----
5. The type of fit in this system is called -----
6. The tolerance of the shaft is equal to -----
7. The tolerance of the hole is equal to -----
8. The upper deviation for the shaft is -----
9. The lower deviation of the shaft is -----
10. The fundamental deviation of the shaft is -----

ch (United States)

LAmeees A.





quiz _2 section 1



Given the following for a shaft and a hole system:

1. The upper deviation of the shaft is equal to (-0.10 mm)
2. The basic size of the system is equal to 30.00 mm.
3. The lower deviation of the hole is equal to 0.30 mm.
4. The maximum clearance between the shaft and the hole is equal to 0.80 mm.
5. The tolerance of the shaft is equal to 0.10 mm

The required is

1. Draw a simple sketch for this system
2. Calculate the following for the shaft
The lower limit , the higher limit , upper deviation, the lower deviation, the fundamental deviation, the tolerance, the Maximum metal limit, and the minimum metal limit.
3. Calculate the following for the hole
The lower limit , the higher limit , upper deviation, the fundamental deviation, the tolerance, the Maximum metal limit, and the minimum metal limit.
4. Calculate the minimum clearance between the shaft and the hole.

Show your calculations



For a shaft and a hole system, if the maximum metal limit of the shaft is less than the maximum metal limit of the hole, then the type of fit between the shaft and the hole is called

- ☐ a. clearance
- ☐ b. interference
- ☐ c. transition
- ☐ d. both A and B are correct
- ☐ e. all of the above are correct

Next page

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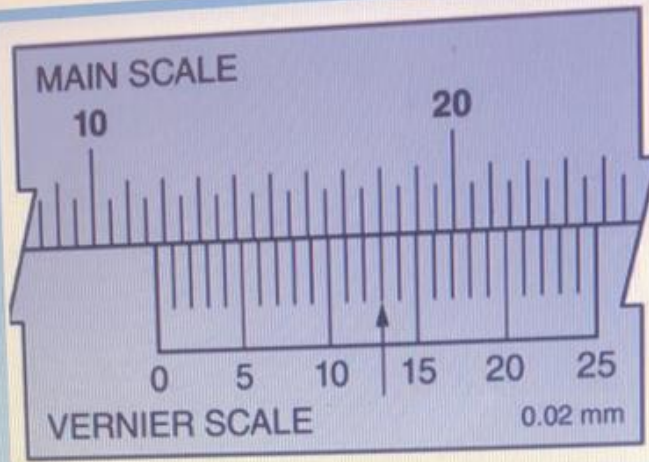
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DELL





☐ a. 13.13 mm

☐ b. 13.18 mm

☐ c. 11.26 mm

☒ d. 11.76 mm

Clear my choice

Question 21

The accuracy of the vernier bevel protractor, (shown in the figure), is -----



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question

Select one:

- ☒ True
- ☐ False

Question 21

Not yet
answered

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1.00

Flag
question

For a shaft and a hole system, if the maximum metal limit of the shaft is less than the maximum metal limit of the hole, then the type of fit between the shaft and the hole is called

- ☒ a. clearance
- ☐ b. interference
- ☐ c. transition
- ☐ d. both A and B are correct
- ☐ e. all of the above are correct

Clear my choice



+

jo/mod/quiz/attempt.php?attempt=133135&cmid=275472&page=8

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METROLOGY & ENG. MEASUREMENTS

General

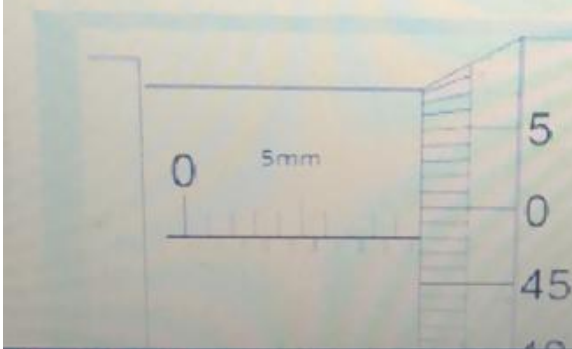
Mid exam(0936441)

The upper deviation of any part, (either shaft or hole), is always greater than its lower deviation.

Select one:

☐ True

☐ False

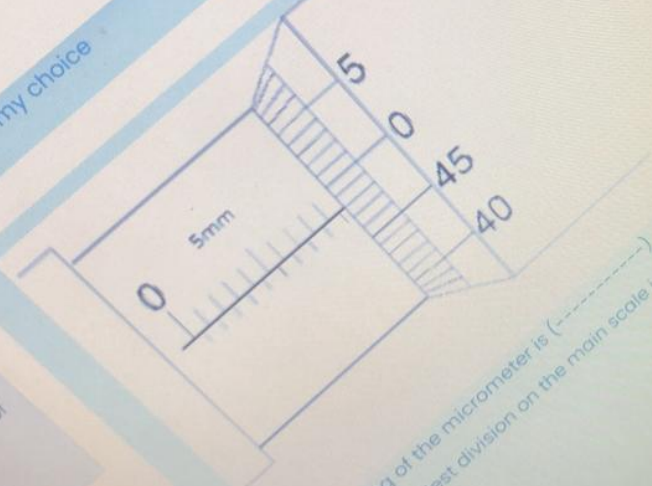


DELL



Clear my choice

Question 20
Not yet answered
Marked out of 1.00
Flag question



The reading of the micrometer is (-----)
hint: the smallest division on the main scale is 0.5 mm

- ☐ a. 9.48 mm
- ☐ b. 9.98 mm
- ☐ c. 9.02 mm
- ☐ d. 9.0 mm

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General

Mid exam(0936441)

For a shaft and a hole system, if the minimum diameter of the shaft is larger than the maximum diameter of the hole, then the type of fit between the shaft and the hole is called

- ☐ a. clearance
- ☒ b. interference
- ☐ c. transition
- ☐ d. both A and B are correct
- ☐ e. all of the above are correct

[Clear my choice](#)

Metric (103) pieces	
	Increment
1 piece (1.005) mm	
49 pieces (1.01 to 1.49) mm	0.01
49 pieces (0.5 to 21.5) mm	0.5

Select one:

- ☐ True
☐ False

The vernier height gauge and the vernier depth gauge is used for the same purpose.

Select one:

- ☐ True
☒ False

The upper deviation of any part, (either shaft or hole), is always greater than its lower deviation.

Select one:

- ☐ True
☒ False

25	26	27	28	29	30

Finish attempt ...

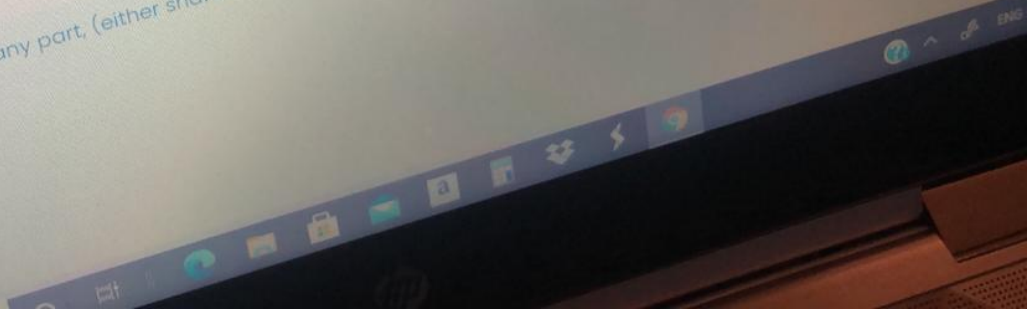
Time left 0:21:30

Question 11
Not yet answered
Marked out of 1.00

Flag question

Question 12

Not yet answered
Marked out of 1.00



16

The error which occurs when the line of sight is not perpendicular to the instrument scale or the observer reads the instrument from an angle is called -----

- ☐ a. Datum error
- ☒ b. Reading error
- ☐ c. zero error
- ☐ d. parallax error

Clear my choice

on 17

In a shaft and hole system the upper deviation of the hole is always greater than the lower deviation of the shaft.

Select one:

- ☐ True
- ☐ False



Accuracy is the degree of repetitiveness of the measuring process.

Select one:

- ☐ True
☒ False

Question 12

Not yet answered

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The tolerance of a shaft is equal to the difference between its upper deviation and its lower deviation.

Select one:

- ☒ True
☐ False

Next page

Search for anything



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Question 24

Not yet answered

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Flag question

The **accuracy** of the vernier bevel protractor, (shown in the figure), is -----



- ☐ a. 1 minute
- ☒ b. 5 minutes
- ☐ c. 5 seconds
- ☐ d. 1 second

Clear my choice