OLEE
ONLINE LEARNING ENGINEERING ENVIRONMENT

Self-assessment
Vernier caliper

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PR3/A2: Self-training material for enriching current online experiments

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1. What is the main function of a Vernier caliper?
    a) To measure only external dimensions of objects
    b) To measure both internal and external dimensions of objects
    c) To measure only the depth of objects
    d) To measure the weight of objects
2. Who invented the Vernier caliper?
    a) Blaise Pascal
    b) Pierre Vernier
    c) Isaac Newton
    d) Albert Einstein
3. Which part of the Vernier caliper is used to measure the internal dimensions of objects?
    a) Lower jaws
    b) Depth rod
    c) Upper jaws
    d) Main scale
4. What is the least count of a digital Vernier caliper typically?
    a) 0.1mm
    b) 0.01mm
    c) 0.001mm
    d) 1mm
5. How is the least count of a Vernier caliper calculated?
    a) MSD + VSD
    b) MSD / VSD
    c) MSD - (VSD/n)
    d) MSD * VSD
6. If the Vernier scale has 50 divisions which are equivalent to 2.45 cm, what is the least count of the Vernier caliper?
    a) 0.01cm
    b) 0.02cm
    c) 0.001cm
    d) 0.05cm
7. What is a positive zero error in a Vernier caliper?
    a) When the reading is negative and away from 0.00 mm
    b) When the reading is positive and away from 0.00 mm
    c) When the Vernier scale reads exactly 0.00 mm
    d) When the jaws are misaligned
8. What should you do if you detect a zero error in a Vernier caliper?
    a) Ignore it
    b) Compensate for it in the final reading
    c) Replace the caliper immediately
    d) Adjust the zero adjustment screw
9. Which of the following is NOT a common mistake when reading Vernier caliper measurements?

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a) Looking at the caliper from an angle
b) Using the caliper on sharp objects
c) Ensuring the jaws meet perfectly at the zero mark
d) Misreading the decimal point on the Vernier scale

10. Which application does NOT typically use Vernier calipers?
    a) Engineering
    b) Manufacturing
    c) Scientific research
    d) Cooking

Right answer:

1. B
2. B
3. C
4. B
5. C
6. C
7. B
8. B
9. C
10. D

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