Assignment 8

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1. What type of pump uses the fluctuation of time to create a vacuum?
   - Ion Pump
   - Turbomolecular Pump
   - Rotary Pump
   - Dry pump

   No, the answer is incorrect. Scale: 1
   Accepted Answers: Dry Pump

2. Which of the following is a rough vacuum pump?
   - Diffusion Pump
   - Turbomolecular Pump
   - Rotary Pump
   - Dry pump

   No, the answer is incorrect. Scale: 1
   Accepted Answers: Dry pump

3. Which of the following is also known as thermal conductivity gauge?
   - Manometer
   - Pirani gauge
   - Rotameter
   - Diffusion gauge

   No, the answer is incorrect. Scale: 1
   Accepted Answers: Pirani gauge

4. In Cold cathode gauge magnetic field applied at right angles to the plane of the electrodes because
   - Electron can take a long horizontal path and can effectively ionize the gas by collision
   - For accelerating electrons in the medium
   - For creating electron hole pairs
   - For creating ions

   No, the answer is incorrect. Scale: 1
   Accepted Answers: Electron can take a long horizontal path and can effectively ionize the gas by collision

5. Find out the combustion for excess flow of nitrogen gas in a 1.0 L/min gas flow meter having diameter 1cm and the pressure at the two ends of the tube is 2 and 1 atm respectively?
   - 0.25 80 kPa
   - 11.17 1 bar
   - 403.8 bari
   - 803.4 bari

   No, the answer is incorrect. Scale: 1
   Accepted Answers: 0.25 80 kPa

6. Which of the following is used in electron microscopy?
   - electron beams
   - magnetic fields
   - light waves
   - electron beams and magnetic fields

   No, the answer is incorrect. Scale: 1
   Accepted Answers: electron beams and magnetic fields

7. Which of the following is used for electron microscopy?
   - specimen should be thin and dry
   - image is obtained on a phosphor screen
   - electron beam must pass through evacuated chamber
   - specimen should be thin and dry, image is obtained on a phosphor screen and electron beam must pass through evacuated chamber

   No, the answer is incorrect. Scale: 1
   Accepted Answers: specimen should be thin and dry, image is obtained on a phosphor screen and electron beam must pass through evacuated chamber

8. The secondary electrons emitted back in scanning microscope is collected by?
   - specimen
   - anode
   - vacuum chamber
   -substrate

   No, the answer is incorrect. Scale: 1
   Accepted Answers: substrate

9. The two important plots for mapping electrochemical impedance of the system is
   - Nyquist Plot and Bode Plot
   - Test Plot and Cadmium Plot
   - Nyquist Plot and Cadmium Plot
   - Nyquist Plot and Spice Plot

   No, the answer is incorrect. Scale: 1
   Accepted Answers: Nyquist Plot and Bode Plot

10. In electrochemical impedance spectroscopy the depressed semicircle on graph represents?
    - uncertainty of electrolyte
    - electrode interface
    - difference in impedance in the electrolyte or electrode
    - Electrolyte is not homogeneously and distributed microscopic properties of the electrolyte

    No, the answer is incorrect. Scale: 1
    Accepted Answers: Electrolyte is not homogeneously and distributed microscopic properties of the electrolyte