B.Sc 5th Semester Unit Test 2024

Paper: PHY-HE-5016

Time: 60 minutes Date: 25-09-2024 Total marks: 20

A. Answer the following questions: 2 x 5 = 10
   1. What is vacuum? What are the different ranges of vacuum?
   2. State and write the equation of Boyle's law.
   3. Define mean free path, molecular density and time to form a monolayer.
   4. Write the difference between a transducer and a sensor.
   5. What is a transducer? Give examples

B. Answer the following questions: (**any two**) 5 x 2 = 10
   1. What is the purpose of a vacuum pump in a vacuum system, and name two common types of vacuum pumps used in laboratory applications?
   2. Give some applications of vacuum systems.
   3. Mention the different parts of a transducer. Give examples of thermal, electrical and mechanical transducer.

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B. Answer the following questions: (**any two**) 5 x 2 = 10
   1. What is the purpose of a vacuum pump in a vacuum system, and name two common types of vacuum pumps used in laboratory applications?
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C. Answer the following questions: (**any two**) 5 x 2 = 10
   1. What is the purpose of a vacuum pump in a vacuum system, and name two common types of vacuum pumps used in laboratory applications?
   2. Give some applications of vacuum systems.
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