MODEL QUESTION PAPER – 2023

LESSON – 8

SUB: PHYSICS   (E/M) - CLASS : XI

DATE : 09.12.2023   TOTAL MARK : 20M

PART – A (5 X 1 = 5M)

Choose the best correct answer

1. A quasi static process is an infinity .... process

a) Slow   b) fast   c) very slow   d) very fast

2. The practical refrigerator is always   .... Than ideal refrigerator

a) <   b)   >   c)   =   d) 0

3. Which of the following is not a scalar?

a)   Viscosity   b) surface tension   c) pressure   d) none of the above

4. The Young's modulus unit is..........

a) N/M^2 b) NM^2 c)) N/M^1 d) none of the above

5. The efficiency of a heat engine working between the freezing point and boiling point of water

a) 6.25%   b)   26.8%   c)   20%   d) 12.5 %

PART – B (5 X 2 = 10M)

Answer any FIVE Questions

6. State Pascal's law in fluids

7. State Archimedes principle

8. Define coefficient of viscosity of a liquid

9. Obtain an ideal gas law from Boyle's law

10. Give the sign convention for Q and W

11. State the second law of thermodynamics in terms of entropy

12. During a cyclic process, a heat engine absorbs 500J of heat a hot reservoir , does work and ejects an amount of heat 300 J into the surroundings (cold reservoir) calculate the efficiency of the heat engine ?

PART – C (1 X 5 = 5M)

Answer ALL questions

12 a) Explain in detail the working of a refrigerator

        (or)

b) Explain the different types of modulus of elasticity .

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