2 year B.S.C (Semester III) → Physics (IMP)

M O S T I M P QUESTIONS

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UNIT – 1 ()

Long Questions

1. EXPLAIN MAXWELL LAW OF DISTRIBUTION OF MOLECULAR VELOCITIES?
2. WRITE ABOUT TRANSPORT PHENOMENON ? (VISCOSITY, THERMAL CONDUCTIVITY AND DIFFUSION OF GASES)

Shot Questions

1. DEFINE MEAN FREE PATH AND ITS EQUATION?
2. WRITE ABOUT EXPERIMENTAL VERIFICATION OF MAXWELL DISTRIBUTION OF MOLECULAR SPEEDS?

UNIT – 2 ()

Long Questions

1. EXPLAIN WORKING OF CARNOT ENGINE AND DERIVE EQUATION OF ITS EFFICIANCY?
2. DEFINE ENTROPHY AND DERIVE CHANGE IN ENTROPHY IN REVERSIBLE AND IRREVERSIBLE PROCESS?

Shot Questions

1.DEFINE THERMODYNAMIC SECOND LAW AND EXPLAIN CARNOTS THEROM?

2.EXPLAIN ABOUT THERMODYNAMIC (KELVIN) SCALE OF TEMPERATURE?

3.WRITE ABOUT CHANGE OF ENTROPHY WHEN ICE CHANGES INTO STEAM?

UNIT – 3 ()

Long Questions

1. DEFINE THERMODYNAMIC POTENTIALS AND DERIVE MAXWELL EQUATIONS FROM THERMODYNAMIC POTENTIALS?
2. WRITE ABOUT JOULE KELVIN COEFFICIANT OF IDEAL AND VANDER WALL GASES?

Shot Questions

1. EXPLAIN CLASSIUS CLAYPERON EQUATION?
2. DERIVE $C_P / C_V = R$?
3. DERIVE $C_P - C_V = R$?

UNIT – 4()

Long Questions

1. EXPLAIN PRODUCTION OF LOW TEMPERATURES BY USING ADIABATIC DEMAGNETISATION? WRITE PRACTICAL APPLICATIONS OF LOW TEMPERATURE PHYSICS?
2. DEFINE JOULE THOMSON EFFECT AND WRITE ABOUT PORUS PLUG EXPERIMENT ABOUT JOULE THOMSON COOLING

Shot Questions

1. EXPLAIN LIQUIFICATION OF AIR BY USING LINDE METHOD?
2. DISTINGUISH BETWEEN ADIABATIC, JOULE THOMSON EXPANSION AND JOULE EXPANSION?

UNIT – 5 ()

Long Questions

1. EXPLAIN PLANKS LAW OF BLACK BODY RADIATION?
2. DEFINE SOLAR CONSTANT AND DETERMINE SOLAR CONSTANT BY USING ANGSTROM PYROHELIO METER?

Shot Questions

1. ESTIMATE THE SURFACE TEMPERATURE ON SUN?

2. DEFINE BLACK BODY AND ITS SPECTRAL ENERGYB DISTRIBUTION OF BLACKBODY RADIATION?

3. DEDUCE WEINS LAW AND RAYLEIGH JEANS LAW FROM PLANK LAW?