

MODEL QUESTION PAPER - 1

I.P.U.C. PHYSICS (33)

Time: 3 hours 15 min.

Max. Marks: 70

General instructions:

- a) All parts are compulsory.
- b) Answers without relevant diagram/ figure/circuit wherever necessary will not carry any marks.
- c) Direct answers to the Numerical problems without detailed solutions will not carry any marks.

PART - A

I. Answer the following

10 x 1 = 1

1. Write the S.I. of momentum.
2. Is scalar multiplied by a vector, a vector or a scalar?
3. Write an expression for position vector of centre mass of system of two particles lie on x - axis.
4. Mention the expression for work done by a force in vector form.
5. What is the height of the geostationary orbit from the surface of the earth?
6. Among rubber and steel which one has more elasticity?
7. What is ideal gas?
8. Define angle of contact.
9. State the first law of thermodynamics.
10. Mention any one applications of beats.

PART - B

II. Answer any FIVE of the following questions.

5x2=10

11. Mention any two basic forces in nature.
12. Mention two uses of dimensional analysis.
13. Distinguish between distance (path length) and displacement.
14. What is centripetal acceleration? Give the expression for it.
15. Mention any two methods of reducing friction.
16. Determine the volume contraction of the solid copper cube, 10cm on its edge, when subjected to hydraulic pressure of 7.0×10^6 Pa. (Given bulk modulus of copper = 140×10^9 Nm $^{-2}$).
17. What is specific heat capacity of a substance? Write the relation between specific heat capacities of gases.
18. On an average the human heart is found to beat 75 times in minute. Calculate its frequency.

PART - C

III. Answer any FIVE of the following questions. 5x3=15

19. State and explain Law of triangle of vectors. When will be the resultant of two given vectors is maximum?
20. State Newton's second law of motion and hence derive $F = ma$.
21. Prove work- energy theorem for a constant force.
22. Derive an expression for orbital speed of the earth's satellite.
23. State and explain Bernoulli's theorem.
24. Write any three properties of heat radiation.
25. State the law of equipartition of energy. Write an expression for the energy associated with diatomic molecule.
26. Discuss the modes of vibrations in closed path.

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