

KANCHI KALVI'S CREATIVE QUESTIONS TEAM

CHAPTER- 15 (LAWS OF MOTION AND GRAVITATION)

Class: X STD Subject: SCIENCE Marks: 40 Time: 1:15hrs.

SECTION – A (10 x 1 = 10)

I. Choose and write the correct answer;

1. ___ deduced the objects move with a constant speed when no force acts on them (Newton ,Galileo,Edison,all)
2. Inertia of body mainly depends on its ___ (mass, kg, all, none)
3. The impact produced by an object depends on its___ and ___ (mass, velocity, both, none)
4. ___ used to measure the force acting on an object as a product of its mass and acceleration (Newton's I law , Newton's II law, Newton's III law, none)
5. Another name of zero friction is___ (+ve error, _ve error, Ideal frictionless, all)
6. ___ has both direction and magnitude (Newton , Momentum, all, none)
7. 1 unit of force = ___ (1 kg x 2 ms⁻² , 1 kg x1 ms⁻² , 2 kg x1 ms⁻² , 1 kg x1 ms⁻²)
8. Cryogenics is the study of the production of very low temperature materials (below 120K ,below 127K, below 120K, below 123K)
9. Dewar flasks are generally about ___feet in height and ___ feet in diameter (2&6, 6&2, 6&3, 3&6,)
10. China launched its space station named Tiangong 1, in the first half of ___ (2008, 2009, 2010, 2011)

SECTION – B (10 x 2 = 20)

II. Answer (any ten)questions.

- 11.State Newton's III Law of motion.
12. what is called inertia?
13. Write the Abbreviations of CIXS and LLRI.
- 14 . What do you mean by the moment of force?Give its unit

- 15 . What do you mean by the term couple?
- 16 . what is called the gravitational force.?
- 17..Give the conclusion of Galileo that he studied about the motion of a body.
18. Write about MRI.
19. Mention the names of some space stations.
20. Write about Power Transmission in big cities
- 21..what do you mean by 'g'? Give its value
22. Calculate the Mass of Earth using the expression $g = GM/R^2$

SECTION – C (2 x 5 = 10)

III.Answer (any two)questions

23. Explain about BALANCED AND UNBALANCED FORCES
24. Differ between Mass and Weight
25. Explain about Chandrayaan-1

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