

MECHANICS (MASS, FORCE, ACCELERATION, WORK, ENERGY, MOMENTUM, VELOCITY) BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. For a given mass and size, moment of inertia of a solid disc is

- a) equal to that of a ring
 - b) less than that of a ring
 - c) more than that of a ring
 - d) depend on the material of ring and disc
-

Q2. Assertion (A):

A man standing on a completely frictionless surface can propel himself by whistling.

Reason (R):

If no external force acts on a system, its momentum cannot change.

Code

- a) (A) is true, but (R) is false
 - b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 - c) Both (A) and (R) are true and (R) is the correct explanation of (A)
 - d) (A) is false, but (R) is true
-

Q3. If a light body and a heavy body have equal momentum, then

- a) the kinetic energy of the lighter body is equal to the kinetic energy of the heavier body
 - b) the lighter body has lesser kinetic energy than the heavier body
 - c) the lighter body has greater energy than the heavier body
 - d) the kinetic energy of both the bodies are independent of momentum.
-

Q4. Consider the following statements :

- Copernicus discovered that the earth moves around the sun.
- An astronaut cannot use a straw to sip a drink on the surface of the moon.
- The S.I. unit of weight is kilogram.

Which of these statements is/are **correct**?

- a) 2 and 3
- b) 1 and 2
- c) 1 and 3
- d) 1, 2 and 3

5000+ FREE GENERAL SCIENCE MCQ QUESTION BANK FOR ALL SSC, UPSC, BANK, RAILWAY EXAMS

[Free Practice MCQs »](#)

[Download More PDF »](#)

[Free Online Quiz »](#)

Q5. In wind power, which form of energy is converted into electrical energy?

- a) Solar energy
- b) Potential energy
- c) Kinetic energy
- d) Radiant energy

Q6. A book is kept on the surface of a table. If the gravitational pull of the earth on the book is the force of action, then the force of reaction is exerted by

- a) the table on the book
- b) the book on the earth
- c) the book on the table
- d) the table on the earth

Q7. The potential energy of a freely falling object decreases progressively.

- a) Sum of Potential Energy and Kinetic Energy at any point during the free fall remains constant

- b) Potential energy gets converted into kinetic energy progressively
 - c) The law of conservation of energy is violated
 - d) Both (a) and (b)
-

Q8. An electrical appliance of 500 W is used for 5 hours per day. Energy consumed in 30 days will be

- a) 75 kW h
 - b) 25 kW h
 - c) 2.5 kW h
 - d) None of these
-

Q9. A car is moving on a road and rain is falling vertically. Select the correct answer.

- a) The rain will strike both the screens
 - b) The rain will strike the front screen only
 - c) The rain will strike the wind screen only
 - d) The rain will not strike any of the screens
-

Q10. The working principle of a washing machine is :

- a) reverse osmosis
 - b) dialysis
 - c) centrifugation
 - d) diffusion
-

Q11. It is difficult to walk on the ice than on the road because

- a) Ice does not offer any reaction when we push it with our foot
- b) Road is harder than the ice

- c) Ice is harder than the road
- d) Ice has a lesser friction than the road

Q12. A gymnast takes turns with her arms and legs stretched. When she pulls her arms and legs

- a) the angular velocity stays constant
- b) the moment of inertia decreases
- c) the angular velocity decreases
- d) the angular momentum increases

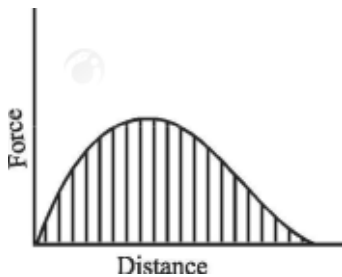
1000+ FREE MECHANICS (MASS, FORCE, ACCELERATION, WORK, ENERGY, MOMENTUM, VELOCITY) BASED QUESTIONS AND ANSWERS FOR ALL COMPETITIVE EXAMS

[Free Practice MCQs »](#)

[Download More PDF »](#)

[Free Online Quiz »](#)

Q13. Which one of the following physical quantities is represented by the shaded area in the given graph?



- a) Power
- b) Impulse
- c) Torque
- d) Work done

Q14. In cricket match, while catching a fast moving ball, a fielder in the ground gradually pulls his hands backwards with the moving ball to reduce the velocity to zero. The act represents

- a) Newton's third law of motion

- b) Newton's second law of motion
- c) Newton's first law of motion
- d) Law of conservation of energy

Q15. Watt-hour meter measures

- a) power
- b) voltage
- c) current
- d) electric energy

[Read More mechanics work and energy Question and Answers »](#)

Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (b)

Q3. Answer: (a)

5000+ GENERAL SCIENCE MCQ TOPIC WISE MCQ QUESTION BANK WITH SOLVED ANSWERS & FREE PDF

[MEASUREMENT AND SI UNITS](#)

[MEASURING DEVICES AND SCALES](#)

[MECHANICS \(MASS, FORCE, ACCELERATION, WORK, ENERGY, MOMENTUM, VELOCITY\)](#)

[FORCE OF GRAVITY, SOLIDS AND FLUIDS](#)

[MOTION UNDER GRAVITY](#)

[PHYSICAL PROPERTIES OF MATERIALS](#)

LIGHT, HEAT, THERMODYNAMICS, WAVE MOTION, SOUND, OPTICS & OSCILLATIONS

ELECTRIC CURRENT AND MAGNETISM

NUCLEAR PHYSICS AND CONDUCTIVITY

MODERN AND SPACE PHYSICS, SOURCES OF ENERGY

GENERAL CONCEPTS OF CHEMISTRY

NATURE OF MATTER AND COMPOSITION

ATOMIC STRUCTURE MOLECULES AND NUCLEAR CHEMISTRY

CLASSIFICATION OF ELEMENTS, CHEMICAL BONDING, PERIODICITY IN PROPERTIES &
PHYSICAL TRANSFORMATION

METALS, NON METALS, MINERALS, ORES, PROPERTIES, USES

ALLOYS, CARBON & ITS VARIOUS FORMS, HYDROGEN & COMPOUNDS, SULPHUR,
NITROGEN, HALOGEN & INERT GASES

ACIDS, BASES, SALTS AND METALS

HYDROCARBON, ALCOHOL, POLYMER, ORGANIC ACID AND EXPLOSIVE SUBSTANCE

FUEL, FOOD PRESERVATION, NUTRITION, MEDICINE, DETERGENTS AND FERTILIZERS

INORGANIC CHEMISTRY

ORGANIC CHEMISTRY

ENVIRONMENTAL CHEMISTRY

SOME IMPORTANT MAN MADE MATERIALS

SUB DIVISIONS OF BIOLOGY

GENETICS, EVOLUTION OF LIFE & ECOLOGICAL BIODIVERSITY

TAXONOMY

HEREDITY

BIOFERTILIZER

BIOLOGICAL CLASSIFICATION CELL TISSUES AND DIVISION

HUMAN ANATOMY

BLOOD TRANSPORT SYSTEM

DIGESTION AND EXCRETION

PHOTOSYNTHESIS

VITAMINS, NUTRITION, HEALTH, DISEASE AND TREATMENT

ENDOCRINE GLANDS, HORMONES

PHYSIOLOGY OF PLANTS, HUMANS AND ANIMALS

REPRODUCTION

FOOD PRODUCTION

BIOLOGY IN HUMAN WELFARE

ECOLOGY AND ENVIRONMENT AWARENESS

GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (b)

The weight of an object is the force on the object due to gravity.

The unit of measurement for weight is that of force, which in the International System of Units (SI) is the newton.

Q5. Answer: (c)

Q6. Answer: (a)

Q7. Answer: (d)

Q8. Answer: (a)

Q9. Answer: (b)

Q10. Answer: (c)

Q11. Answer: (d)

Q12. Answer: (b)

Since no external torque act on the gymnast, so angular momentum ($L = lw$) is conserved.

After pulling her arms & legs, the angular velocity increases but the moment of inertia of gymnasts, decreases in, such a way that angular momentum remains constant.

Q13. Answer: (d)

Q14. Answer: (b)

Q15. Answer: (d)

W – hr is a unit of energy.

On our site **Careerions.com**, You can find all the content you need to prepare for any kind of exam like. **Verbal Reasoning, Non-Verbal Reasoning, Aptitude, English, Computer, History, Polity, Economy, Geography, General Science, General Awareness & So on.** Make use of our expert-curated content to get an edge over your competition and prepare for your exams effectively.

Practice with our **Free Practice MCQs, Mock Tests Series, Online Quiz** and get an idea of the real exam environment. Keep track of your progress with our detailed performance reports. They are perfect for competitive exam preparation, as well as for brushing up on basic & fundamental knowledge. The questions are updated regularly to keep up with the changing syllabuses.