

Question Paper Set 1

Standard: 6th | **Subject:** Science | **Marks:** 20 | **Duration:** 45 Mins

Q.1. Objective Section (Any 4) [4 Marks]

1. **Fill in the blank:** The motion of an object in a straight line is called _____ motion.
2. **True or False:** Gravitational force operates only between the earth and objects on it.
3. **Find the odd man out:** Diesel, Crude Oil, Natural Gas, Wind.
4. **Complete the analogy:** Sunlight : Solar Energy :: Uranium : _____.

Q.2. Answer the following (Solve Any 4) [8 Marks]

1. **Distinguish between:** Oscillatory motion and Linear motion.
2. **Give reasons:** Machines are oiled from time to time.
3. **Answer in brief:** In which specific type of motion do the hands of a clock move?
4. **Explain:** Why does a ball rolling on a flat ground stop after covering a certain distance?
5. **Classify:** Name the type of force used: A horse pulling a cart.

Q.3. Answer in detail (Solve Any 2) [8 Marks]

1. **Answer in your own words:** Explain the various types of force with examples.
2. **Answer in your own words:** What are the types of motion? Explain with examples.
3. **Give reasons:** Ramps at railway stations have a rough surface.

Question Paper Set 2

Standard: 6th | **Subject:** Science | **Marks:** 20 | **Duration:** 45 Mins

Q.1. Objective Section (Any 4) [4 Marks]

1. **Find the odd man out:** Loudspeaker, Microphone, Electric Bulb, Magnet.
2. **Fill in the blank:** If an object traverses unequal distances in equal time intervals, it is called _____ linear motion.
3. **True or False:** Potential energy is the energy obtained from motion.
4. **Name the following:** The force applied by means of a machine.

Q.2. Answer the following (Solve Any 4) [8 Marks]

1. **Distinguish between:** Linear motion and Random motion.
2. **Answer in brief:** When can we say that work is done?
3. **Classify:** What type of force is used to lift a heavy iron object with a crane?
4. **Identify the motion:** A butterfly flying from flower to flower.
5. **Answer in brief:** What are the various forms of energy? (List any 4).

Q.3. Answer in detail (Solve Any 2) [8 Marks]

1. **Answer in your own words:** Why is the displacement of an object necessary for work?
2. **Give reasons:** Weightlessness is felt in space.
3. **Answer in your own words:** Explain the difference between Potential Energy and Kinetic Energy.

Question Paper Set 3

Standard: 6th | **Subject:** Science | **Marks:** 20 | **Duration:** 45 Mins

Q.1. Objective Section (Any 4) [4 Marks]

1. **Complete the analogy:** Stretched rubber band : Potential Energy :: Flowing water : _____.
2. **Fill in the blank:** _____ force is used to weigh an object using a spring balance.
3. **True or False:** The speed of sound is greater than the speed of light.
4. **Find the odd man out:** Speed, Direction, Velocity, Mass.

Q.2. Answer the following (Solve Any 4) [8 Marks]

1. **Classify Force:** Weighing an object with a spring balance.
2. **Give reasons:** An object thrown upwards comes down after reaching a point.
3. **Answer in brief:** What is meant by potential energy?
4. **Distinguish between:** Random motion and Oscillatory motion.
5. **Answer in brief:** Why should we save energy?

Q.3. Answer in detail (Solve Any 2) [8 Marks]

1. **Answer in your own words:** What are the various types of force?
2. **Give reasons:** We get tired after running for a long time.
3. **Answer in your own words:** How is work calculated? Explain with the formula.

Question Paper Set 4

Standard: 6th | **Subject:** Science | **Marks:** 20 | **Duration:** 45 Mins

Q.1. Objective Section (Any 4) [4 Marks]

1. **Fill in the blank:** The unit of work is _____.
2. **True or False:** Frictional force always acts in the direction of motion.
3. **Find the odd man out:** Fan, Clock hands, Merry-go-round, Butterfly.
4. **Name the following:** The energy stored in plant food.

Q.2. Answer the following (Solve Any 4) [8 Marks]

1. **Classify Force:** Applying brakes to a bicycle.
2. **Distinguish between:** Uniform linear motion and Non-uniform linear motion.
3. **Answer in brief:** What are non-conventional energy resources?
4. **Identify the motion:** A merry-go-round.
5. **Give reasons:** Powder is sprinkled on a carrom board.

Q.3. Answer in detail (Solve Any 2) [8 Marks]

1. **Answer in your own words:** Write about the transformation of energy with an example.
2. **Answer in your own words:** Explain the characteristics of Gravitational force.
3. **Answer in your own words:** What is 'Speed'? How is it calculated?

Question Paper Set 5 (Marathi Medium)

इयत्ता: ६ वी | विषय: सामान्य विज्ञान | गुण: २० | वेळ: ४५ मिनिटे

प्र. १. रिकाम्या जागी योग्य शब्द भरा / थोडक्यात उत्तरे (कोणतेही ४) [४ गुण]

१. रिकामी जागा भरा: कार्य करण्याची क्षमता म्हणजे _____ होय.
२. चूक की बरोबर: घर्षण बल नेहमी गतीच्या विरोधात कार्य करते.
३. गटात न बसणारा शब्द ओळखा: डिझेल, वारा, नैसर्गिक वायू, दगडी कोळसा.
४. सहसंबंध पूर्ण करा: सूर्यप्रकाश : सौर ऊर्जा :: युरेनियम : _____.

प्र. २. खालील प्रश्नांची उत्तरे लिहा (कोणतेही ४) [८ गुण]

१. फरक स्पष्ट करा: रेषीय गती आणि आंदोलित गती.
२. शास्त्रीय कारणे द्या: यंत्रांना वेळोवेळी तेल दिले जाते.
३. थोडक्यात उत्तरे द्या: कार्य झाले असे केव्हा म्हणता येईल?
४. ओळखा पाहू: सायकलला ब्रेक लावणे - हे कोणत्या बलाचे उदाहरण आहे?
५. थोडक्यात उत्तरे द्या: ऊर्जेची रूपे कोणती आहेत? (कोणतीही ४).

प्र. ३. सविस्तर उत्तरे लिहा (कोणतेही २) [८ गुण]

१. तुमच्या शब्दांत सांगा: बलाचे विविध प्रकार उदाहरणासह स्पष्ट करा.
२. तुमच्या शब्दांत सांगा: स्थितिज ऊर्जा व गतिज ऊर्जा यांतील फरक उदाहरणासह स्पष्ट करा.
३. शास्त्रीय कारणे द्या: कॅरम बोर्डवर पावडर टाकली जाते.