Το	pic	: Fo	rces

Revision Quiz

Name :	_ Grade/Year :	_ Subject :	Physics
School's Name :	_ Date :	_ Marks obtaine	ed :

Choose the correct answer from 4 options and circle the correct one.

- 1. Newton's second law of motion can be defined as.
 - A. Relationships between mass and gravity.
 - B. Relationships between force, mass, and acceleration.
 - C. To every action, there is an equal and opposite reaction
 - D. Law of Inertia is called Newton's second law
- 2. A tow car pulls a 1500 kg jeep, giving it an acceleration 2.0m/s^c. What force does the tow car exert on the jeep?
 - A. 1500 N
 - B. 18,000 N
 - C. 20,000
 - D. 30,000
- 3. A force of 18 N is applied to the toy car of a mass of 2.0 kg which is placed on a frictionless table. What will be the acceleration of the car?
 - A. 10.0 m/s²
 - B. 8.8 m/s²
 - C. 9.0 m/s²
 - D. 6.5 m/s²
- 4. If you pull on a door, the door pulls you with equal.
 - A. Energy
 - B. Friction
 - C. Force
 - D. Push

- 5. What is the Upthrust acting on a wooden plank of weight 2200 N if it is floating on the water?
 - A. 220N
 - B. 22N
 - C. 2200N
 - D. 22000N
- 6. The magnitude of the acceleration is directly proportional to the magnitude of the resultant force and inversely proportional to the mass of the body. This statement refers to
 - A. Newton's first and second law of motion
 - B. Newton's first law of motion
 - C. Newton's third law of motion
 - D. Newton's second law of motion
- 7. In which situation is the acceleration on an object equal to zero?
 - A. An object is at rest or moving with constant velocity
 - B. An object is falling freely on earth.
 - C. A car accelerating on a straight road.
 - D. An object is moving along a circle at a constant speed.
- 8. Which of the following effects cannot occur when a force is applied to an object.
 - A. the mass of the object remains the same
 - B. the speed of the object increases or decreases.
 - C. the direction of motion might change.
 - D. the size of the object will not change.

Topic: Forces

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- 9. When two objects push on each other and none of them move, the forces acting on each other are
 - A. add up
 - B. equal and opposite
 - C. balanced and different
 - D. unbalanced and same
- 10. What is the relation between force, mass, and acceleration?
 - $A. \ F=m \div a$
 - B. $m = F \times a$
 - C. $F = m \times a$
 - D. $a = F \times m$
- 11. To perform Hooke's law which of the following list of the apparatus needed
 - A. measuring cylinder, pan balance
 - B. spring, ruler, loads, retort stand
 - C. newton-meter, mass
 - D. pivot, metre rule, stopwatch
- 12. Which force is responsible for the circular motion of planets orbiting the Sun?
 - A. Electromagnetic force
 - B. Gravitational force
 - C. Tensional force
 - D. Nuclear force
- 13. Which force causes the centripetal force responsible for a car travelling around a bend?
 - A. Friction between tyres and roads
 - B. Electrostatic force
 - C. Gravitational pull
 - D. Contact force

- 14. An object moving in a circle with constant speed always accelerates towards
 - A. Normal to the ground
 - B. The centre of the circle
 - C. Away from the centre
 - D. The force of engine
- 15. If the gravitational force acting on the Earth by the Sun stops suddenly, what would happen to the Earth?
 - A. It would continue to rotate in the orbit
 - B. It would fall on the Sun
 - C. It would go away from the Sun tangentially
 - D. It would move with centripetal force
- 16. What happens to the magnitude of the centripetal force needed to keep the car going around the bend if a person drives around a bend faster than normal?
 - A. Centripetal force decreases
 - B. Centripetal force remains the same
 - C. Centripetal force increases
 - D. The car will go tangentially
- 17. Which of the following is an example of uniform circular motion?
 - A. The motion of space station
 - B. Rotation of the moon
 - C. The motion of bus on the road
 - D. None of the above