

Time: to

**Subject: - Physics
20**

Marks:

Note: Each Question carry 4 marks. Solve any 5 questions.

- Q1) I) Which list contains only SI base units?
a) ampere, kelvin, gram
b) kilogram, metre, newton
c) newton, second, ampere
d) second, kelvin, kilogram
- II) The speed v of a wave travelling a wire is given by the equation where T is the tension in the wire that has mass m and length l . In order for the equation to be homogenous, what is the value of n ?
a) $1/2$
b) 1
c) 2
d) 4
- Q2. A cyclist of mass 50 kg rides a bicycle of mass 10 kg. When starting off, the cyclist provides a force of 200 N. Calculate the initial acceleration.
- Q3. Describe one 'Newton's third law pair' of forces involved in the following situations. In each case, state the object that each force acts on, the type of force and the direction of the force.
a) You step on someone's toe.
b) A car hits a brick wall and comes to rest.
c) A car slows down by applying the brakes.
d) You throw a ball upwards into the air.
- Q4. Explain what is meant by the mass of a body and the weight of a body.
- Q5. At high speeds the resistive frictional force F produced by air on a body moving with velocity v is given by the equation $F = bv^2$, where b is a constant.
a) Derive the base units of force in the SI system.
b) Determine the base units of b in the SI system.
c) The car continues with the same forward driving force and accelerates until it reaches a top speed of 50 m s^{-1} . At this speed the resistive force is given by the equation $F = bv^2$. Determine the value of b for the car.
- Q6. When a golfer hits a ball, his club is in contact with the ball for about 0.000 50 s and the ball leaves the club with a speed of 70 m s^{-1} . The mass of the ball is 46 g. Determine the mean accelerating force.

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Chao Zhang



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