## **Test Jot Series** Class: 9th **Student Name:** Chapter#5 Subject: Physics (SNC) Paper Type: **Paper Time:** 1 Hour **Maximum Marks:** 30 Q1. Choose the correct option. (6X1=6)1. Work done is maximum when the angle between the fore F and the displacement is: (A) 0° **(B)** 30° **(C)** 60° **(D)** 90° 2. A joule can also be written as: (A) Kg m s<sup>-2</sup> (C) Kg m<sup>2</sup>s<sup>-3</sup> **(D)** Kg m<sup>2</sup>s<sup>-2</sup> **(B)** Kg ms<sup>-1</sup> 3. SI unit of work done is: **(C)** NS (D) Joule (A) Weber **(B)** Newton 4. What is the work done by a force of 10N moving an object 5m? **(B)** 100J **(C)** 1200J **(A)** 50J **(D)** 1500J 5. The energy possessed by a body by a body by virtue of its position is: (A) kinetic energy (B) potential energy (C) chemical energy (D) solar energy 6. The kinetic energy of a body of mass 2kg is 25J. Its speed is: (A) 5ms<sup>-1</sup> **(B)** 12.5ms<sup>-1</sup> (C) 25ms<sup>-1</sup> **(D)** 150ms<sup>-1</sup> Q2. Write down short answers of following questions. (7X2=14)[i] Define work and its SI unit. [ii] Define kinetic energy. Write its formula. [iii] Define nuclear energy with example. [iv] Define energy with example. [v] How energy is produced by burning of fossil [vi] What is the main advantages of renewable fuel? energy sources? [vii] What is power? Define the unit used for it. Write detailed answers of the following questions.(Answer any 2) (2X5=10)1. A force of 20N acting at angle of 60° to the horizontal is used to pull a box through a distance of 3 m across a floor. How much works is done? (Numerical Problem)

2. Describe the energy transformation that occur in a solar panel explain how energy is converted

3. Describe the advantages and disadvantages of biomass-energy production. What are the

form one form to another.

different types of biomass energy sources.