

Spardhaguru India Private Limited Physics

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Chapter-08 Work Energy & Power 1. Which of the following pair of physical quantity has same dimensions? (A) Work and Energy (B) Force and Power (C) Work and Power (D) Power and Motion 2. Energy stored in a spring in watch-(A) Kinetic Energy (B) Potential Energy (C) Heat Energy (D) Chemical Energy 3.A stone is dropped from the roof of a House towards ground. When will be the K.E. of stone maximum? (A) Just after it drops (B) Just before reaching the ground (C) Just after touching the ground (D) After covering the half distance 4. Which of the following is the cleanest source of energy? (A) Bio-fuel (B) Fossil fuel (C) Nuclear power (D) Wind energy 5. Which one of the following is not a non-conventional source of energy? (A) Solar Energy (B) Natural Gas (C) Wind Energy (D) Tidal Power 6.Kinetic energy depends on (A) The velocity or speed of the moving body (B) The mass of the moving body (C) The pressure of the moving body (D) Both mass and velocity of the moving body 7. Which of the following sources has the largest share in power generation in India? (A) Atomic power (B) Thermal power (D) Wind power (C) Hydro power

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|---|---|---|--|---------|
| | (A) Work (C) Intensity | (B) Power (D) Force | 1111 | |
| | 10.Rate of work done is (A) Energy (C) Momentum | (B) Power (D) Impulse | | |
| | 11.Which of the follows photo-voltaic cell? (A) It is another name as (B) It can be used as infr (C) It can store light energy (D) It converts electric e | s solar cell a-red detectonergy in the | ors e form of ele | |
| | 12.One Kilowatt hour is (A) 3.6 Mega Joule (C) 3.2 Mega Joule | equal to- (B) 3.8 Meş (D) 4.0 Meg | | |
| | 13.In which of the follow used in performing work (A) Paddling the bicycle (B) Driving a car to cove (C) Wind mill grinding w (D) Rowing a boat in the | t? to cover a di er a distance Theat grain | | s being |
| | 14.Which of the follow have the same dimension (A) Force and Power (C) Work and Energy | ns? (B) W | physical qua Ork and Power Omentum and | er |
| | 15.The energy stored in (A) Kinetic energy (C) Heat energy | a watch sprii (B) Potenti (D) Chemic | al energy | |
| | 16.Energy that is producalled (A) Light energy (C) Thermal energy | (B) Kinetic (D) Potentia | energy | coal is |
| | 17.In a photocell light en (A) Potential energy (C) Heat energy | ergy is convo (B) Chemic (D) Electric | al energy | |
| | 18.A kilowatt-hour is un(A) Energy(C) Electric charge | it of (B) Power (D) Electric | current | |

(C) Displacement

system or from a system by an external force on it.

8. Which of the following is not a vector quantity?

(B) Force

(D) Velocity

is the mechanical transfer of energy to a

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19. Solar energy is converted into chemical energy during

- (A) Transpiration
- (B) Photosynthesis
- (C) Diffusion
- (D) Osmosis

20.In a rechargeable cell what kind of energy is stored within the cell?

- (A) Electrical energy
- (B) Potential energy
- (C) Chemical energy
- (D) Kinetic energy
- 21. The energy emitted by the Sun is due to
- (A) Chemical reaction
- (B) Nuclear fission
- (C) Nuclear fusion
- (D) All of the above

22. How much mechanical work must be done to completely melt 1 gram of ice at 0°C?

- (A) 4.2 J
- (B) 80 J
- (C) 336 j
- (D) 2268 J

23.A bullet is fired from a rifle which recoils after firing. The ratio of kinetic energy of the rifle to that of the bullet

- (A) Zero
- (B) One
- (C) Less than one
- (D) More than one

24.Direct conversion of solar energy with the use of a photovoltaic cell results in the production of

- (A) Optical energy
- (B) Electrical energy
- (C) Thermal energy
- (D) Mechanical energy

25.A photo-electric cell converts

- (A) Mechanical energy to Electric energy
- (B) Heat energy to Mechanical energy
- (C) Light energy to Chemical energy
- (D) Light energy to Electrical energy

26.A stone is dropped from the roof of a house towards the ground. The Kinetic Energy of the stone will be maximum:

- (A) Just after it is dropped
- (B) When it is just on the half-way
- (C) Just before it touches the ground
- (D) When it touches the ground

27.A dynamo is used to convert

- (A) Mechanical energy into Electrical energy
- (B) Electrical energy into Mechanical energy
- (C) Electrical energy into Magnetic energy
- (D) Magnetic energy into Mechanical energy

- 28. When a body falls from an aeroplane, there is increase
- (A) Kinetic energy
- (B) Mass
- (C) Acceleration
- (D) Potential energy

29.In a water lifting electric pump, we convert

- (A) Electrical energy into Potential energy
- (B) Kinetic energy into Electrical energy
- (C) Kinetic energy into Potential energy
- (D) Electrical energy into Kinetic energy

30. The device used to convert solar energy into electricity

- (A) Photovoltaic cell
- (B) Daniell cell
- (C) Electrochemical cell
- (D) Galvanic cell

31.A moving neutron collides with a stationary a-particle. The fraction of the kinetic energy lost by the neutron is

- (A) Nuclear
- (B) Joul
- (C) Calo
- (D) Noneof these

32. Which of the following have the same unit?

- (A) Work and Power
- (B) Torque and Moment of Inertia
- (C) Work and Torque
- (D) Torque and Angular momentum

33. Which of the follwing is the second largest source of global energy?

- (A) Fossil fuel
- (B) Nuclear Energy
- (C) Renewable Energy
- (D) None of these

34. The inexhaustible source of energy of stars is due to

- (A) Conversion of hydrogen to helium
- (B) Conversion of helium to hydrogen
- (C) Decay of radioactive elements
- (D) Excess of oxygen

35. Which of the following reaction is the main cause of energy radiated from Sun?

- (A) Nuclear fission
- (B) Nuclear fusion

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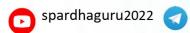
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| (C) Chemical reaction | on |
|-------------------------|--|
| (D) Diffusion reaction | on |
| 26 5 | January Language Africa Michael Company |
| (A) Kelvin | ods can be measured in which units? |
| (C) Calorie | (B) Joule (D) Celsius |
| (C) Calorie | (D) Ceisius |
| 37.A flying jet posse | sses |
| (A) Potential energy | |
| (B) Kinetic energy | |
| (C) Wind energy | |
| (D) Both kinetic and | l potential energy |
| 20 When the speed | of a moving object is halved, its |
| - | pecomes 1/4 of the original |
| | secomes 4 times the original |
| (C) No change in th | |
| (D) Acceleration is (| G. |
| (b) Acceleration is t | adubled |
| 39 Ry the use of nh | otovoltaic cell while converting solar |
| - | following is produced? |
| (A) Light energy | (B) Electric energy |
| (C) Chemical energy | |
| (a) diretificat effergy | |
| 40.When a ball is th | rown vertically upwards, which of the |
| | remains constant during its motion? |
| (A) Energy | (R) Displacement |
| (C) Velocity | (D) Acceleration dhaguru India Private Limited |
| | oparation and a second |
| 41.What is the SI un | |
| (A) Joule (B) | Newton |
| (C) Calorie (D) |) Kelvin |
| 42. What is the unit | of calorific value? |
| | or caroffic value: |
| , , , , |) kCal/sec |
| (C) KW/sec (D) | , real sec |
| 43.Energy in the for | rm of heat is wasted when a machine |
| 0, | at is generated due to |
| (A) Burning | (B) Friction |
| (C) Combustion | (D) Lubrication |
| (-) | (-) |
| | |



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