Q.1 What is the SI unit of Work?

A: Joule
B: erg
C: g-cm
D: Watt

Q.2 1 joule = _____ erg.

A: 10^9
B: 10^5
C: 10^7
D: 10^{10}

Q.3 Which of the followings is an example of work done against force?

A: Getting up with the stairs
B: Get down with the stairs
C: Walking on the flat ground
D: Droping any object down from the top

Q.4 What happens to its potential energy when an object is taken to high altitude?

A: Its potential energy increases
B: Its potential energy decreases
C: Its potential energy remain same
D: None of the above

Q.5 What is the unit of energy in SI system?

A: Joule
B: erg
C: Watt
D: Newton

Q.6 What is the unit of energy in c.g.s system?

A: dyne
B: erg
C: newton-meter/second
D: dyne-cm/second

Q.7 What is energy?

A: energy is the rate of change of work done;
B: It is the ability to do work;
C: Both A and B;
D: none of the above;

Q.8 **The rate of change of work is _____ .**

A: Power
B: Force
C: Momentum
D: Energy

Q.9 **What is the unit of power?**

A: Watt
B: Newton
C: Joule
D: Newton-meter

Q.10 **Potential energy = mass × _____ × height.**

A: Displacement
B: Velocity
C: Density
D: Gravitational acceleration

Q.11 **1 Horse Power (HP) = _____ Watt.**

A: 446
B: 766
C: 746
D: 674

Q.12 **If a person walk on horizontal road with a suitcase on his hand then the work done is zero.**

A: This statement is true;
B: This statement is false;

Q.13 **What is the formula of work done?**

A: Work done = force × displacement;
B: Work done = force × velocity;

C: Work done = pressure × displacement
D: Work done = mass × acceleration;

Q.14 An object of mass 200 g moving with velocity 50 cm/s. What is its kinetic energy?

A: 2.1 × 105 erg
B: 2.0 × 105 erg
C: 2.8 × 105 erg
D: 2.5 × 10⁵ erg

Q.15 Which of the following is true?

A: Power = work done × time;
B: Power = work done/time;
C; Power = work done × velocity;
D: Power = work done/ velocity;

Q.16 A machine do a work of 100 joule in 20 second. What is its power?

A: 120 watt
B: 80 watt
C: 5 watt
D: 2000 watt

Q.17 Which of the following is equal with Newton-meter?

A: Joule
B: Horse Power
C: Watt
D: Pascal

Q.18 Erg is related to –

A: dyne-cm
B: dyne/secon
C: dyne-second
D: dyne/cm

Q.19 Due to application of 5 N force an object moves 10 meter along perpendicular direction of the force. What amount work is done?

A: 50 Joule
B: 15 Joule

C: 5 Joule
D: 0 Joule

Q.20 Joule/second is related to –

A: Watt
B: Newton
C: Pascal
B: Torr

Q.21 A particle is thrown upward with some kinetic energy. What happened to its kinetic energy at the highest point or height it reaches.

A: Its kinetic energy is lost;
B: It's all kinetic energy is absorbed by the air;
C: Its kinetic energy is converted to potential energy;
D: Its kinetic energy is remain same;

Q.22 What is the formula of potential energy?

A: mv^2
B: mgh
C: mgh^2
D: ρgh

Q.23 What is the formula of kinetic energy?

A: $(1/2)mv^2$
B: mv^2
C: mgh
D: $p\int dv$

Q.24 When a body falls from a height, its total mechanical energy remain same. The statement is –

A: True
B: False

Answer

1	a		**13**	a
2	c		**14**	d
3	a		**15**	b
4	a		**16**	c
5	a		**17**	a
6	b		**18**	a
7	b		**19**	d
8	a		**20**	a
9	a		**21**	c
10	d		**22**	b
11	c		**23**	a
12	a		**24**	a