

# UNIT

## **WORK AND ENERGY**

	MULTIPLE	CHOICE QUESTION	5				
1.	Product of force and distance cov	vered in the direction of force i	s:				
	(a) Acceleration	(b) Resistance					
	(c) Work	(d) Specific heat					
2.	For work conditions should be fulfilled:						
	(a) 1	<b>(b)</b> 2					
	(c) 3	(d) 4					
3.	Work is quantity:						
	(a) Scalar	(b) Vector					
	(c) Base	(d) None of above					
4.	Unit of work is:	•					
	(a) N	(b) Nm					
	(c) J (d) Both b & c	الكواريا ا					
5.	Work done will be if no force act on the body:						
	(a) Maximum	(b) Minimum					
	(c) Zero	(d) All of above					
6.	Work done will be maximum if d	lisplacement is to force	ee:				
	(a) Parallel	(b) Perpendicular					
	(c) Tangent	(d) Normal					
7.	Work done will be zero if displacement is to force: (LHR 2016)						
	(a) Parallel	(b) Perpendicular	g ⊆g2				
	(c) Tangent	(d) Normal					
8.	Work done will be onei	f a force of one Newton acts o	n the body and it covers				
	the distance of 1 meter in the direction of force:						
	(a) Watt	(b) Joule					
	(c) Newton	(d) Coulomb					
9.	One Mega joule is equal to:		(LHR 2011)				
	(a) $10^6  \text{J}$	<b>(b)</b> $10^3$ J					
	(c) 10 <sup>9</sup> J	(d) $10^2  \text{J}$					
10.	What will be the magnitude of work if a force of 25 N pulls a stone through a distance						
	of 5 m in its direction:						
	(a) 25 J	<b>(b)</b> 50 J					
	(c) 75 J	(d) 125 J					
11.	Which unit is equal to kgm2s-2 in	the units given below:					
	(a) Joule	(b) Newton					
	(c) Watt	(d) Meter					
12.	Rate of doing work with respect	to time is known as:	(LHR 2016)				
	(a) Energy	(b) Power	40 STV				
	(c) Momentum	(d) None of above					

13.	Unit of power is:	
15.	(a) Watt	(b) Joule
	(c) Newton	(d) Coulomb
14.	How much power is used by a 40 kg athl	
****	(a) 4 W	(b) 40 W
	(c) 400 W	(d) 4000 W
15.	What will be the power of a machine doi	
10.	(a) 2 W	(b) 10 W
	(c) 25 W	(d) 50 W
16.	Ability of a body to do work is known as	
550-574	(a) Force	(b) Momentum
	(c) Power	(d) Energy
17.	There are basic kinds of energy:	Control of the Contro
	(a) 1	<b>(b)</b> 2
	(c) 3	(d) 4
18.	Energy is quantity:	7.000
	(a) Vector	(b) Scalar
	(c) Base	(d) None of above
19.	Unit of Energy in System International is	s:
	(a) Watt	(b) Joule
	(c) Newton	(d) Coulomb
20.	Energy possessed by a body due to its mo	The state of the s
	(a) Kinetic	(b) Potential
	(c) Mechanical	(d) All of above
21.		a ball of mass 200 g with a velocity of 20 ms <sup>-1</sup> .
	Its kinetic energy will be:	(1) 40 I
	(a) 4 J	(b) 40 J
22	(c) 400 J	(d) 4000 J
22.	What will be the kinetic energy of a body (a) Doubled	y if its velocity is doubled? (GRW 2011) (b) Four times
	(c) Eight times	(d) Half
23.	What will be the kinetic energy of a body	
20.	(a) Doubled	(b) Four times
	(c) Eight times	(d) Half
24.		nass 1000 kg moving with a velocity of 20 ms <sup>-1</sup> ?
	(a) $2 \times 10^2 \text{ J}$	<b>(b)</b> 2 x 10 <sup>3</sup> J
	(c) $2 \times 10^5 \text{ J}$	(d) $2 \times 10^7 \text{ J}$
25.		osition is called energy: (LHR 2011)
	(a) Kinetic	(b) Potential
	(c) Mechanical	(d) All of above
26.	Ability of a body to do work due to	its height from the surface of earth is called
	energy:	
	(a) Gravitational Potential	(b) Elastic Potential
	(c) Chemical Potential	(d) Attraction
27.	When a ball is lifted to a height 'h' from	
	(a) Kinetic	(b) Gravitational potential
	(c) Elastic potential	(d) Mechanical
28.	Total energy of the system:	
	(a) Increases	(b) Decreases
	(c) Remains same	(d) All of above

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(GRW 2015)

(a) Elastic potential energy

(b) Gravitational potential energy

(c) Kinetic energy

(d) Mechanical energy

39. How many types of mechanical energy are?

(a) 1

**(b)** 2

(c) 3

(d) 4

### ANSWER KEY

Q.	Ans	Q.	Ans	Q.	Ans	Q.	Ans
1	c	11	а	21	b	31	b
2	b	12	b	22	b	32	a
3	a	13	а	23	a	33	b

4	d	14	c	24	c	34	b
5	c	15	a	25	b	35	a
6	a	16	d	26	а	36	a
7	b	17	b	27	b	37	a
8	b	18	b	28	c	38	b
9	a	19	b	29	d	39	b
10	d	20	a	30	c		

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