TERM 3 PHYSICS HOLIDAY PACKAGE

ATTEMP ALL THE QUESTIONS

* Inc	licates required question		
1.	NAME: *		
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2.	CLASS *		
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3.	Parent's Phone nuber *		
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4.	1. Which of the following is a fundamental	quantity in the SI system? *	2 points
	Mark only one oval.		
	A, Energy		
	B. Volume		
	C.Temperature		
	D. Area		

5.	2.A vehicle travels 540 km in 6 hours. If it rests for 30 minutes during the journey, what is its average speed excluding rest time?	* 2 points
	Mark only one oval.	
	A) 90 km/h	
	B) 108 km/h	
	C) 80 km/h	
	D) 85km/h	
6.	3. The power rating of a machine that lifts 1500 N to a height of 4 m in 5	* 2 points
	seconds is:	_ points
	Mark only one oval.	
	A) 120 W	
	B) 1000 W	
	C) 900 W	
	D) 1200 W	
7.	4. Which of the following is a derived SI unit *	2 points
	Mark only one oval.	
	A) Second	
	B) Kilogram	
	C) Pascal	
	D) Metre	

5. An object of mass 2 kg is pushed with a force of 10 N. What is its acceleration?	* 2 points
Mark only one oval.	
A) 20 m/s²	
B) 25 m/s ²	
C) 2 m/s ²	
D) 0.2 m/s ²	
6. When a body is lifted vertically upwards, the work done against gravity depends on:	* 2 points
Mark only one oval.	
A) Mass and height	
B) Mass and acceleration	
C) Time taken	
D) Displacement only	
7. The unit of energy used in electricity billing is: *	2 points
Mark only one oval.	
A. Joule	
B. Watt	
C. Kilowatt-hour	
D. Newton-meter	
	acceleration? Mark only one oval. A) 20 m/s² B) 25 m/s² C) 2 m/s² D) 0.2 m/s² 6. When a body is lifted vertically upwards, the work done against gravity depends on: Mark only one oval. A) Mass and height B) Mass and acceleration C) Time taken D) Displacement only 7. The unit of energy used in electricity billing is: * Mark only one oval. A. Joule B. Watt C. Kilowatt-hour

11.	8. A force acts on a 3 kg object and changes its velocity from 2 m/s to 8 m/s in 3 s. What is the magnitude of the force?	* 2 points
	Mark only one oval.	
	A. 6 N	
	B. 12 N	
	C. 15 N	
	D. 18 N	
12.	9. The instrument that best measures the internal diameter of a narrow test tube is:	* 0 points
	Mark only one oval.	
	A. Meter rule	
	B. Ruler	
	B. Micrometer screw gauge	
	C. Vernier caliper	
13.	10. What is the kinetic energy of a body of mass 10 kg moving at 15 m/s * Mark only one oval.	2 points
	A. 1125 J	
	B. 750 J	
	C. 1500 J	
	D. 2250 J	

14.	11. Which of the following is true about scalar quantities? *	2 points
	Mark only one oval.	
	A. They must act in a particular direction	
	B. They include acceleration and displacement	
	C. They are fully described by magnitude alone	
	D. They always change with direction	
15.	12. The slope of a distance-time graph gives: *	2 points
	Mark only one oval.	
	A. Acceleration	
	B. Speed	
	C. Displacement	
	D. Velocity	
16.	13. The slope of a distance-time graph gives *	2 points
	Mark only one oval.	
	A. Acceleration	
	B. Speed	
	C. Displacement	
	D. Velocity	

17.	14. Which one of these is not a property of a good thermometer? *	2 points
	Mark only one oval.	
	A. Fast response	
	B. High specific heat capacity	
	C. Uniform scale	
	D. Wide range	
18.	15. When an object is freely falling, which of the following remains constant (ignoring air resistance)?	* 2 points
	Mark only one oval.	
	A. Acceleration	
	B. Speed	
	C. Force	
	D. Kinetic energy	
19.	16. A ball of mass 0.5 kg is dropped from a height of 20 m. What is its speed just before impact? ($g = 10 \text{ m/s}^2$)	* 2 points
	Mark only one oval.	
	A. 10 m/s	
	B. 20 m/s	
	C. 25 m/s	
	D. 20 m/s	

20.	17. The gravitational potential energy of a 2 kg object placed 3 m above * 2 points the ground is:
	Mark only one oval.
	A. 30 J
	B. 6 J
	C. 60 J
	D. 20 J
21.	18. A car slows down from 30 m/s to 10 m/s in 5 s. What is its acceleration? * 2 points
	Mark only one oval.
	A. 3.14 m/s ²
	B. 4 m/s^2
	C. 3.6 m/s ²
	D. 3.06 m/s^2
22.	19. The following are sources of energy. Which of them are the only * 2 points renewable source of energy on the list? Coal, wind ,Gas, hydropower and oil
	Mark only one oval.
	A) Coal ,Gas and hydropower
	B) Coal ,Gas and wind
	C) Wind ,oil, hydropower
	D) Wind and hydropower

20. When a body is falling the kind of energy it possesses *	3 points
Mark only one oval.	
 A) Mechanical energy B) Kinetic energy C) Potential Enery D) both potential and kinetic energy 	
21. A ball of mass 1kg bounces off the ground to a height of 2m * Dropdown after falling from a height of 5m, find the energy lost.	4 points
Mark only one oval.	
50 J 40 J 30 J 20 J	
22. A car is uniformly accelerated from rest and after 10s acquires a speed * of 20m/s. It maintains the speed for the next five seconds. What is the total distance it covers?	4 points
Mark only one oval.	
1) 200 m	
2) 300 m	
3) 225 m	
4) none of the above	
	Mark only one oval. A) Mechanical energy B) Kinetic energy C) Potential Enery D) both potential and kinetic energy 21. A ball of mass 1kg bounces off the ground to a height of 2m after falling from a height of 5m, find the energy lost. Mark only one oval. 50 J 40 J 30 J 20 J 22. A car is uniformly accelerated from rest and after 10s acquires a speed of 20m/s. It maintains the speed for the next five seconds. What is the total distance it covers? Mark only one oval. 1) 200 m 2) 300 m

26.	30. A spring is compressed by 0.1 m with a spring constant of 200 N/m. What * 2 points is the potential energy stored?
	Mark only one oval.
	A. 2 J
	B. 20 J
	C. 1 J
	D. 0.5 J
27.	23. Using the kinetic theory, Explain in terms of (a) the arrangement of * 6 points particles (b) motions of particles and (c) kinetics internal energy in each of the
	following: solids, liquids and gases.
28.	24. Explain what happens to a person seated in a vehicle when it is suddenly \star 4 points brought to rest .

29.	25. Give three situations in which newton second and third law in which newton's law of motion is applied.			
30.	26. An electric bulb rated 100 W operates for 3 hours. The energy * 2 consumed is:	points		
	Mark only one oval.			
	A. 0.3 kWh			
	B. 3.0 kWh			
	C. 0.1 kWh			
	D. 0.3 kWh			
31.	27. A man exerts a force of 100 N on a lever and lifts a load of 400 N. What is * 2 the mechanical advantage of the lever?	points		
	Mark only one oval.			
	A. 0.25			
	B. 4			
	C. 2			
	D. 0.5			

28. What is the acceleration due to gravity on the moon compared to Earth?						* 2 points	
Mark only one	e oval.						
A. Equal							
B. About	1/6						
C. Doubl	е						
D. 9.8 m	/s²						
Match the foll	owing quantity	and it's intrun	nent of mo	easurement	*		
Mark only one	oval per row.						
		B.					
	A. Thermometer	Micrometer Screw Gauge	C. Vernier Caliper	D. Voltmeter	E. Stopwatch	F. Ammeter	
Diameter of a wire		Micrometer Screw	Vernier				
		Micrometer Screw	Vernier				
a wire		Micrometer Screw	Vernier				
a wire Voltage		Micrometer Screw	Vernier				
a wire Voltage Time Electric		Micrometer Screw	Vernier				
a wire Voltage Time Electric current Length of a		Micrometer Screw	Vernier				

34.	29. A metal block of density 8000 kg/m³ and volume 0.002 m³ has a mass of: *		
	Mark only one oval.		
	○ A. 4 kg○ B. 16 kg		
	C. 6 kg		
	D. 20 kg		

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