CADET COLLEGE PETARO

ENTRY TEST 2014 FOR ADMISSION TO PRE O-LEVEL

GENERAL SCIENCE Time 01 Hour Max Marks: 100 **SECTION-A** Marks-30 Mark the correct response. Each question carries 02 Marks. 1. When we through an object upward, after covering certain height object falls back on the ground. Which of the following force is responsible for the downward motion of the object? A) Frictional force B) Gravitational force C) Resistive force D) Nuclear force 2. A force which always opposes the motion of an object is called: A) Gravitational force B) Frictional force C) Forward force D) Balance force 3. Which of the following quantities has same unit as force? A) Work done B) Weight C) Torque D) Pressure 4. SI unit of time is second. Which of the following is the correct symbol of mili seconds? A) Ms B) MS C) ms D) mS 5. 10⁻⁶ stands for: A) mili B) mega C) micro D) giga 6. 11. correct scientific notation of 0.0001 is: A) $1x10^3$ B) 1x10⁴ C) 1x10⁻³ D) 1x10⁻⁴ 7. 12. SI unit of temperature is: A) Centigrade B) Celsius C) Fahrenheit D) Kelvin 8. A pair of scissors is an example of? A) First kind of lever B) Second kind of lever C) third kind of lever D) None of these 9. Efficiency of a machine can be defined as: A) Input / Output B) Output / Input C) Output-Input / Input D) Output-Input / Output 10. When a spring is compressed, what form of energy does it possess? A) Kinetic B) Potential C) Heat D) All of these 11. Normal body temperature of human beings is: A) 98.5°C B) 98.5°F C) 100°C D) 100°F 12. Which of the following is transparent? A) Wood B) Silver C) Soil D) Air 13. Which of the following is the main source of energy? C) Factories D) Fire A) Moon B) Sun 14. What is main property of sound by which we can distinguish between male and female voice? A) Loudness B) Energy C) Pitch D) Quality

C) Simple circuit

D) Complex circuit

15. Glowing bulb is an example of:

A) Open circuit

B) Close circuit

SECTION-B

Marks-30

Mark the correct response. Each question carries 02 Marks. 1. Ice floats in water because it is

1.	ice iloais ili water because it is						
	(A) More dense than water.	(B) Colder than wate	r.				
	(C) Less dense than water.	(D) Warmer than wa	ter.				
2.	The average weight of atoms of an element as compared to the weight of one atom of carbon taken						
	as 12 is called						
	(A) Atomic Number (B) Atomic Mass	(C) Molecular Mass	(D) Formula Mass				
3.	Proton istimes heavier than an e	electron					
	(A) 1637 (B) 1837	(C) 1937	(D) 1742				
4.	The solution prepared in water is called	solution.					
	(A) Molar (B) Molal	(C) Aqueous	(D) Dilute				
5.	pH meter is invented by	_					
	(A) Goldstein (B) Sorenson	(C) J.J Thomson	(D) S.A Arrhensius				
6.	Modern Classification of elements is based on						
	(A) Doberiner's law of Triads.	(B) Newlands	(B) Newlands' law of Octaves.				
	(C) Mendeleev's Periodic Table.	(D) None of these	(D) None of these				
7.	Which of the following has high average kinetic energy?						
	(A) Solid (B) Liquid	(C) Gas	(D) Plasma				
8.	Total number of protons and neutrons in the center of nucleus of an atom is called as						
	(A) Atomic Number (B) Mass Numbe	r (C) Molecular Mass	(D) Formula Mass				
9.	Electrons were discovered by	_·					
	(A) Goldstein	(B) Crooks					
	(C) J.J Thomson	(D) Bohar					
10.	What is the formula of Washing Soda?						
	(A) NaOH (B) NaHCO ₃	(C) Na ₂ CO ₃	(D) Ca(OH) ₂				
11.	What is the formula of Chalk?						
	(A) MgCO ₃ (B) MgCO ₃ . CaC	O ₃ (C) MgCl ₂ KCl .6H ₂ O	(D) CaCO ₃				
12.	. The process of purification and separation of v	various fractions of petrole	eum by fractional distillation				
	is called						
	(A) Distillation	(B) Hydrogenation					
	(C) Refining	(D) Chromatography					
13.	. What is the main constituent of Natural gas?						
	(A) Methane (B) Ethane	(C) Propane	(D) Butane				
14.	. What is the mass of one mole of carbon-12?						
	(A) 0.012 g (B) 0.024 g	(C) 1 g	(D) 12 g				
15.	. When ice melts to form water, energy						
	(A) is created. (B) is released.	(C) is destroyed.	(D) is absorbed.				

SECTION-C

Mark the correct response. Each question carries 02 Marks.

1. Which two of the following contain mostly deoxygenated blood?

	(a) F	Pulmonary artery	(b) Pulmonary veir	n (c) Aorta	(d) Veins	
2.	Which one	of the following ca	arries messages thr	ough the body?		
	(a) I	Muscles	(b) Nerves	(c) Tissue	(d) Blood	
3.	Which one	of the organs pro	tected by the ribs?			
	(a) l	Lungs	(b) Eyes	(c) Brain	(d) kidneys	
4.	Which one	of the following is	caused by a deficie	ency of vitamin-A	?	
	(a) I	Malaria (b) Ty _l	ohid (c) Night bl	indness (d) Tu	berculosiss	
5.	A lack of wh	nich nutrient caus	es gums to bleed?			
	(a)	Calcium	(b) Iron (c)	Vitamin C	(d) Vitamin D	
Comp (i)		_	s with suitable wo		es 02 Marks. is known as nutrition.	
(ii)	We obtain	cream and butter	from		fat.	
(iii)) The cell is	a unit which is pr	esent in all	organisms	s that is, in all	and animal.
(iv) The thin lag	yer which enclos	ed the nucleus is ca	lled	-	
(v)	The jelly lil	ke substance whi	ch is present in the	cell is called		•
(vi) The thin layer which enclosed the nucleus is called						
(vi	i) During poll	lination the	of	a flower receives	S	grains.
(vi	ii) A neuron i	is a long		cell.		
	-	0				
(ix		_	em, the		orks as a pump.	
) In the bloo	d circulatory syst	em, the	W	orks as a pump.	
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