

## TNPSC - GROUP 2A GENERAL STUDIES - 2017 (ENGLISH)

## **PHYSICS**

1.	In Transmission	n Electron Micros	is used to magnify the obj	_is used to magnify the objects.						
	(A) Light		(B) Optical	Lenses						
	(C) Electrons		(D) Scanner	(D) Scanner						
2.	The Respiratory quotient value for glucose is									
	(A) 0.5 <b>(B) 1.0</b>		(C) 1.5	(D) 2.0	(D) 2.0					
3.	Projectile motion is a combination of horizontal motion with constant and vertical motion with constant									
	(A) Acceleration		(R) Veloci	(B) Velocity, acceleration						
	(C) Displaceme	. •		(D) Velocity, displacement						
	(e) Displaceme	iii, velocity	(D) velocity	(D) velocity, displacement						
4.	Nuclear force is									
		(A) charge dependent								
	(B) spin independent									
	(C) both charge and									
	(D) spin independent in dependent but charge independent									
			S							
5.	The oxidation of $SO_3^{2-}$ to $SO_4^{2-}$ ion by oxygen $SO_3^{2-} + \stackrel{:}{:} \longrightarrow SO_3^{2-}$ , in this reaction which is Lewis									
	acid and Lewis base?									
	(A) $SO_3^{2-}$ is Lewis acid and oxygen is Lewis base									
	(B) Oxygen is Lewis acid and $SO_3^{2-}$ is Lewis base									
	(C) Both are Lewis acids									
	(D) Both are Lewis bases									
	TO 0 0004 004 =									
6.	Calculate the dimensions of Planck's constant 'h', using the equation $E = h\gamma$ , where $E \rightarrow$ energy and									
	$\gamma \rightarrow$ frequency		, 3							
	(A) MLT <sup>-1</sup>	(B) ML <sup>2</sup>	Γ-1 (C) ML <sup>-1</sup> T <sup>-2</sup>	(D) $ML^{-2}T^{-1}$						
				, ,						
7.	Which one of th	e organic pesticio	les that contain phosph	orous?						
	(A) DDT	(B) BHC	(C) 2, 4-D	(D) Parathion						
8.	Match the follow	wing ·								
0.	(a) Mixed fertili	_	1. DAP							
	(b) Complex fer		2. NPK							
	(c) Bio fertilizer		3. Oil cake							
	(d) Organic nitr		4. Algae							
	=	(c) (d)	. 0							
		3 4								
		4 3								
	(C) 3 2	1 4								
	(0) 3 $-2$	<b>- -</b>								



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9.	· - ·						•	of Hydrogen? (Negatively charged hydrogen clu C) Australia (D) China					
	<u>CHEMISTRY</u>												
10.	A is often drawn as a guide, so that a frequency polygon can be drawn over the to  (A) Frequency  (B) Histogram  (C) Cumulative Frequency  (D) Rectangle												
	<b>ZOOLOGY</b>												
11.	Which one of the follo 1. Gregor Mendel 2. T.H. Morgan 3. C.B. Bridges 4. J.H. Muller (A) 1			wing is	ving is correctly matched?  - Neurospora - Drosophila - Garden pea - Mice  (B) 2 (C) 3				(D) 4				
12. Which one is wrongly matched pair in their characters? (A) Pancreas - Glucagon													
	(B) Sm (C) Te (D) Ad	stis		- - -	Estro	itostatii o <mark>gen</mark> corticoi		)RCL					
13.	Which	of the f	following	g horm	one stin	nulates	contractio	on of uterine	e smooth muscle?				
	(A) Epi	nephri	in	(B) In	sulin		(C) Oxyl		(D) Glucagon				
14.						is corre hing's c xedema omegal	ect? lisease	2015					
	(A) 1	2	3	4									
	(B) 2 (C) 4	-	3 1	1 3									
	(D) 2		1	<b>3</b>									
15.	Cyanide resistant respiration is found in (A) Plants only (C) Both plants and animals						(B) Anim (D) Plar	als only nts and Mi	crobes				
16.	Male se (A) Le	ydig c			-	roduce	(B) Serto	li cells	Cells				