

TNPSC – GROUP IGENERAL STUDIES - 2019 (ENGLISH)

PHYSICS

1.	(A) Their wavelengths should be (B) Wavelength of electron (C) Wavelength of ultrasonic wa	agnetic wave will be more ve will be more					
	(D)Wavelength of electromagnetic wave will be less						
2.	A convex lens of focal length 40 cm is in contact with a concave lens of the focal length 25 cm. The power of the combination is						
	(A) -1.5 D	(B) -6.5 D					
	(C) +1.5 D	(D) $+6.5 D$					
3.	Which of the following has the least wavelength?						
	(A) X-rays	(B) Microwaves					
	(C) Ultra Violet rays	(D) Radio waves					
4	Ozone layer of atmosphere abso	10 A 2					
4.	(A) Visible radiations	(B) Infrared radiations					
		(D) Radio waves					
	(C) Ultraviolet radiations	(D) Radio waves					
5.	A radio active element "X" with a half life of 2 hours decay giving a stable element "Y". After a time						
	of t hours the ratio of atoms is 1:7 then, the value of						
	(A) 4 hours (B) 6 he	urs (C) 5 hours (D) 14 hours					
6.	A particle executes S.H.M. The acceleration of the particle is maximum						
	(A) at extreme position						
	(B) at mean position						
	(C) midway between mean and extreme position						
	(D) acceleration is same at all position.						
7•	The velocity of sound is maximum in						
	(A) Water	(B) Air					
	(C) Metal	(D) Vacuum					
8.	Identify the incorrect statement from the following in respect of seismic waves.						
	(A) Primary waves pass through liquid and solid						
	(B) Primary waves are highly destructive						
	(C) Secondary waves cannot pass through liquid						
	(D) Surface waves are along waves						



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9.	 Two coila are placed close to each other. The mutual inductance of the pair of coils depends (A) the materials of wires of the coils (B) the currents in the two coils (C) the rates at which currents are changing in the two coils (D) relative position and orientation of the two coils 					
	<u>CHEMISTRY</u>					
10.	The aqueous solution of potassium chloride is (A) a weak electrolyte (B) a strong electrolyte (C) a non-electrolyte (D) initially weak and then become a strong electrolyte					
11.	An acid is a substance that can lose a proton is called (A) Arrhenius concept (B) Bronsted-Lowry concept (C) Lewis concept (D) Usanovich concept					
12.	The valence electron of the impurity atom that is to be added to germanium crystal so as to make a <i>n</i> -type semiconductor is (A) 6 (B) 5 (C) 4 (D) 3					
13.	The compounds formed when hydrogen combines with p-block elements are called (A) Ionic hydrides (B) Molecular hydrides (C) Metallic hydrides (D) Polynuclear hydrides					
14.	Among the following salts, which is a salt of weak acid and strong base (A) NH ₄ Cl (B) CH ₃ COONH ₄ (C) NaCN (D) NaCl					
	ZOOLOGY					
15.	Which of the following is correct? The term <u>systole</u> refers to					

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1. Phase of contraction of lungs

3. Phase of relaxation of heart

(A) 1 and 2 only

(B) 2 and 3 only

2. Phase of relaxation of lungs

4. Phase of contraction of heart

(C) 2 only

(D) 4 only



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16. Choose the correct answer from the codes given below.

Assertion (A) : The Pyramid of grassland ecosystem is upright.

Reason (R) : The producers are maximum in number and consumers are least in

number.

(A) (A) and (R) are correct

(B) (A) alone is correct

(C)(R) alone is correct

(D)(A) is correct (R) is not the reason for (A)

17. Which cytoplasmic organelle is associated with 'acrosome' formation in the spermatozoa of animals?

(A) Lysosome

(B) Chloroplast

(C) Golgi complex

(D) Chromosome

18. Deficiency of folic acid leads to

(A) Anaemia

(B) Mental disorder

(C) Scurvy

(D) Night blindness

19. Which of the following is a social insect?

(A) Mosquito

(B) Locust

(C) Bedbug

(D) Termites

20. Which one of the following is NOT correctly matched?

List I

List II SUCCESS GUARANTE

Hormone

Secreted by

1. Testosterone

Interstitial cells

2. Prolactin

Adrenal medulla

3. Estrogen

- Ovary

4. Progesterone

- Corpus luteum

(A) 1 only

(B) 2 only

(C) 3 and 2

(D) 4 only

21. Which enzyme catalyze the conversion of Pyruvic Acid into Acetyl co-enzyme A in the respiratory process?

(A) Pyruvic acid oxidase

(B) Pyruvate synthetase

(C) Aconitase

(D) Pyruvate Dehydrogenase



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22.	Aestiv	ation is	s seen ir	ı				
	(A) Amphibians					(B) Chimpanzee		
	(C) Sa	lmon				(D) Squirrels		
23.	Match	the fol	lowing	:				
	Disease					Test		
	(a) Leprosy					1. Glycosylated haemoglobin test		
	(b) Typhoid fever					2. Lepromin test		
	(c) Tuberculosis					3. Widal test		
	(d) Diabetes					4. Mantoux test		
		(a)	(b)	(c)	(d)			
	(A)	1	3	4	2			
	(B)	2	3	4	1			
	(C)	2	4	3	1	S STUD		
	(D)	3	2	1	4	A.S 01001		
24.25.	(A) Reserve materials (C) Secretory substances (D) Crystals							
						BOTANY		
26.		oot nodi nizobiui			na whic	ch are capable of symbiotic nitrogen fixation contain the microbe ia (C) Anabaena (D) Azotobacter		
2 7.	Match		_	algal pi	_	s with their colour:		
	() ==	Pign			Colo			
		hloroph	-			range		
		anthop	-		2. Gr			
		aroteno				ue green		
	(d) Pl	hycocya	ınin		4. Ye	ellow		



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	(a)	(b)	(c)	(d)
(A)	2	4	1	3
(B)	2	4	3	1
(C)	1	2	3	4
(D)	4	1	3	2

- 28. Choose the micronutrient needed for plant growth
 - (A) Oxygen(B) Hydrogen(C) Nitrogen(D) Zinc
- 29. A feature common to nucleus, chloroplast and mitochondria is the presence of
 - (A) Lamella(B) Cristae(C) Nucleic acid(D) Nucleolus
- **30.** Hormone secreted in root tip during the formation of nodule is
 - (A) Auxin
 (C) Zymase
 (B) Cytokinin
 (D) Lipase

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