

### **TNPSC – GROUP I** GENERAL STUDIES - 2019 (ENGLISH)

### **PHYSICS**

The unit for equicalent conductivity is

 (A)ohm<sup>-1</sup>cm<sup>-1</sup>
 (C)ohm<sup>-1</sup>cm<sup>2</sup>eq<sup>-1</sup>

(B)ohm<sup>-1</sup>cm<sup>-2</sup>eq<sup>-1</sup> (D)S cm<sup>-2</sup>eq<sup>-1</sup>

- A Cathode Ray Oscilloscope (CRO) is used to measure \_\_\_\_\_\_ of a signal.
  (A) voltage
  (B) frequency
  (C) phase
  (D) all the above
- **3.** If the diameter of the earth becomes two times its present value and its mass remains unchanged then how would the weight of an object on the surface of the earth be affected
  - (A) Becomes half
  - (B) Becomes one-fourth
  - (C) Becomes one-third
  - (D) Remains unaffected
- **4.** Nuclear forces are

#### (A) strongly attractive force

- (B) strongly repulsive force
- (C) attractive or repulsive depend on nucleans
- (D) gravitational forces
- 5. According to Moseley's law the frequency of the spectral line in X-ray spectrum varies as

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(A) Atomic number of the element

#### (B) Square of the atomic number of the element

- (C) Square root of atomic number of element
- (D) Fourth power of the atomic number of the element



## **TNPSC – GROUP 2A** GENERAL STUDIES - 2016 (ENGLISH)

#### **CHEMISTRY**

- 6. Nitrous Oxide is known as Laughing gas. It is also used in medical field as
  (A) Instant horse power
  (B) Propellant
  (C) Antiseptic
  (D) Anesthetic
- 7. Methane is the carbon compound. It's Molecular Formula is

(A) CH <sub>4</sub>	(B) $CH_3 Cl$
(C) $C_2H_6$	(D) $CCl_4$

- 8. Which of the following is strong acid and strong base reaction?
  (A) HCOOH + NH<sub>3</sub>
  (B) HCOOH + NaOH
  (C) HCl + NH<sub>3</sub>
  (D) HCl + NaOH
- 9. The Indian Salt Petre is
  (A) Ammonium nitrate (NH<sub>4</sub>NO<sub>3</sub>)
  (C) Potassium nitrate (KNO<sub>3</sub>)
- 10. The main constituent of steel in India are(A) Ni and Cu(C) Fe and Cu

(B) Sodium nitrate (Na NO<sub>3</sub>)(D) Calcium nitrate Ca (NO<sub>3</sub>)<sub>2</sub>

(D) Ti and Cr SUCCESS GUARANTEED

(B) Mn and Cı

- 11. Which of the following ecological Pyramid is always upright?
  (A) Pyramid of energy
  (B) Pyramid of number
  (C) Pyramid of biomass
  (D) (B) and (C)
- **12.** Which one of the compounds is not a protonic acid?

(A) SO (OH) <sub>2</sub>	(B) $SO_2 (OH)_2$
(C) B (OH) <sub>3</sub>	(D) Po $(OH)_3$

- **13.**  $SO_2$  acts as
  - (A) a reducing agent
  - (B) an oxidizing agent
  - (C) both reducing and oxidizing agent
  - (D) neither reducing nor oxidizing agent



# **TNPSC – GROUP 2A** GENERAL STUDIES - 2016 (ENGLISH)

14.	The end product of anaerobic respiration is				
	(A) Acetyl Co-A		(B) Ethanol alchol		
	(C) Pyruvic acid		(D) Succinic acid		
15.	What is the covalency of nitrogen in ammonia molecule?				
	(A) 2 (B) 4		(C) <u>3</u>	(D) 5	
	ZOOLOGY				
16.	Find the wrong pair/pairs:				
	1. Metabolism	-	Sum total of en	zymatic reactions	
	2. Auxin	-	Photosyntheiss		
	3. Photolysis of water	-	Growth		
	4. Oxidative phosphorylation	-	Respiration		
	(A) 1 and 2	A.9	(B) 2 only		
	(C) 2 and 3		(D) 3 and 4		
17.	Combined drug in use to cure the Malaria is				
	(A) Quinine	Ē	(B) Fansidar		
	(C) Chloroquine		(D) Primaquine	9	
18.	In mammals the mammalian glands are modied gland of following			llowing	
	1 Saliyary gland			1 =	
	2. Sebaceous gland	120 9	001: 20	15	
	3. Pituitary gland				
	(A) 1 only		(B) 2 only		
	(C) 1 and 2 only		(D) 1 and 3 only	y	
19.	Which of the following ecological Pyramid is always upright?				
	(A) Pyramid of energy		(B) Pyramid of	number	
	(C) Pyramid of biomass		(D) (B) and (C)		
20.	What happens in human Thala	ssemias?			
	<ol> <li>reduce α - globin synthesis</li> <li>reduce β - globin synthesis</li> </ol>				

3. enhance  $\alpha$  and  $\beta$  - globin synthesis

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	(A) 1 alone correct		(B) 2 alone correct	• • • • • •				
	(C) 1 and 2 are co	orrect	(D) 3 alone correct					
21.	Norman Borlaug –	is associated with						
	1. high yield varie	-						
	2. chemical fertiliz							
	3. chemical pestici							
		nswer using the code g						
	(A) 1 only	(B) 2 and 3	(C) 1 and 3	(D) 2 only				
22.	Consider the follow	ing Endocrine glands:						
	1. Islets of Langer	hans -	Produce Insulin					
	2. Thyroid gland	-	Produce diabetes					
	3. Adrenal gland	- A-	Produce Goitre					
	Which of the follow	ing is correctly matche	ed?					
	(A) 1 only	(B) 1 and 2 only	(C) 2 and 3 only	(D) 1, 2 and 3				
23.	. Which one called from the development and the maturation of the erythrocyte from the haemocytoblast?							
	·	sis (B) Erythrocynin	(C) Erythrocyte	(D) Haemotocyte				
24.	Golden rice is a gen	etically modified crop.	Where the incorporate	ed gene is meant for biosynthesis of				
	(A) Vitamin A	(B) Vitamin B	(C) Vitamin C	(D) Vitamin D				
25.	Most widely used bi	ioweapon is						
	<ul><li>(A) Bacillus subtilis</li><li>(B) Vibrio cholerae</li><li>(C) Bacillus anthracis</li><li>(D) Escherichia coli</li></ul>							
	BOTANY							
26.	Among the followin	g plants, which one ha	s oil repelling property	7?				
	(A) Tobacco	(B) Maize	(C) Hibiscus	(D) Aloe Vera				
27.	Which of the follow	Which of the following plant boosts the production of red blood cells?						
	(A) Turmeric	(B) Tulsi	(C) Lemon grass	(D) Mustard				
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