AP EAPCET 2025 May 19 Question Paper

Time Allowed :3 Hours | **Maximum Marks :**160 | **Total questions :**160

1. In which group of algae are food materials stored in pyrenoids	1.	In	which	group	of algae	e are food	materials	stored in	pyrenoids?
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- (A) Phaeophyceae
- (B) Rhodophyceae
- (C) Chlorophyceae
- (D) Cyanobacteria

2. Which plant hormone is responsible for apical dominance?

- (A) Cytokinin
- (B) Auxin
- (C) Gibberellin
- (D) Ethylene

3. The genetic material in bacteriophages is:

- (A) Only RNA
- (B) Only DNA
- (C) Either DNA or RNA
- (D) Both DNA and RNA

4. Which of the following is the structural and functional unit of the kidney?

- (A) Nephron
- (B) Glomerulus
- (C) Bowman's capsule
- (D) Loop of Henle

5. Which of the following organisms exhibits alternation of generations?

- (A) Amoeba
- (B) Hydra

(C) Funaria				
(D) Plasmodium				
6. Which blood vessel car	ries oxygenated blood from the lungs to the heart?			
(A) Pulmonary artery				
(B) Aorta				
(C) Pulmonary vein				
(D) Vena cava				
7. Which of the following	enzymes is secreted by the stomach and helps in protein			
digestion?				
(A) Amylase				
(B) Pepsin				
(C) Lipase				
(D) Trypsin				
8. Which part of the hum	an brain is responsible for maintaining posture and balance?			
(A) Cerebrum				
(B) Cerebellum				
(C) Medulla oblongata				
(D) Pons				
9. Which among the follow	wing diseases is caused by a protozoan?			
(A) Tuberculosis				
(B) Typhoid				
(C) Malaria				
(D) Influenza				
10. What is the primary f	function of xylem tissue in plants?			
(A) Transport of food				
(B) Transport of water and	minerals			
(C) Photosynthesis				

(D) Support during reproduction 11. What is the chromosome number in human gametes? (A) 23 pairs (B) 46(C) 23(D) 46 pairs 12. Which among the following is not a connective tissue? (A) Cartilage (B) Blood (C) Tendon (D) Muscle 13. Which part of the human eye controls the amount of light entering it? (A) Lens (B) Retina (C) Iris (D) Cornea 14. Which among the following diseases is not caused by bacteria? (A) Tuberculosis (B) Cholera (C) Typhoid (D) Dengue 15. Which organelle is known as the powerhouse of the cell? (A) Nucleus (B) Endoplasmic reticulum (C) Mitochondrion (D) Golgi apparatus

(A) Lithium	
(B) Beryllium	
(C) Fluorine	
(D) Neon	
17. What is the eq	uivalent weight of sulphuric acid (H ₂ SO ₄) in a reaction where it
donates 2 H ⁺ ions	?
(A) 49	
(B) 98	
(C) 24.5	
(D) 36.5	
18. Which of the f	following oxides is amphoteric in nature?
(A) Na ₂ O	
(B) CO ₂	
(C) Al_2O_3	
(D) SO ₂	
19. A ball is throw	vn ver <mark>tically upward with a speed of 20 m/s. H</mark> ow high will it rise
before coming to 1	rest momentarily? (Take $g = 10 \text{ m/s}^2$)
(A) 15 m	
(B) 20 m	
(C) 25 m	
(D) 30 m	
20. What is the po	ower consumed by an electrical device that uses 2 A current at 220 V
(A) 110 W	
(A) 110 W (B) 220 W	

16. Which of the following has the highest ionization energy?

21. A body of mas	ss 5 kg is moving with a velocity of 10 m/s. What is its kinetic energy?
(A) 100 J	
(B) 150 J	
(C) 200 J	
(D) 250 J	
22. Two particles	are projected at angles θ and $(90^{\circ} - \theta)$ with the same speed of 25 m/s.
If the second part	icle reaches 15 m higher than the first, then the angle of projection $ heta$
is:	
(A) 15°	
(B) 30°	
(C) 45°	
(D) 60°	
23. A test tube of	mass <mark>8 g and uniform cross-sectional area 12 cm²</mark> is floating vertically
in water. It contain	ins 12 g of lead at the bottom. When the tube is slightly depressed and
released, it perfor	rms vertical oscillations. Find the time period of oscillation.
(A) 0.21 s	
(B) 0.28 s	
(C) 0.36 s	
(D) 0.44 s	