

INSTRUCTION TO THE CANDIDATE

Time: 1 Hr.

Max. Marks: 60

1. This online examination has three Sections. Containing 30 multiple choice question:

(i) Section A	Biology	12 Questions
(ii) Section B	Chemistry	12 Questions
(iii) Section C	General Studies	06 Questions

Candidates are required to attempt all the questions.

2. All question carry equal marks.

3. For each correct answer 2 marks will be awarded.

4. There is no negative marking for any wrong answer.

BIOLOGY

1. True replication of DNA is due to		
a) Phosphate backbone	c) Hydrogen bonding	
b) Complementary base pairing rule	d) None	
2. Where are the parotid glands located?		
a) Below the stomach	c)Behind and above the pancreas	
b) Below and in front of the ear canal	d) Underneath the armpits	
3. Night blindness and xerophthalmia are generally which vitamin?	y conditions associated with the deficiency of	
a) Vitamin B	c) Vitamin K	
b) Vitamin B2	d) Vitamin A	
4 is an example of an ex-situ conservation.		
a) Sacred groves	Wildlife sanctuary	
b) Seed bank	National park	
5. Viruses that attack bacteria are called		
a) Virophage	c) Lysophage	
b) Bacteriophage	d) None of the above	
6. The primary function of the cerebrospinal fluida) Protect the brainb) Remove waste products	is to:c) Provide nutrients to the surrounding tissuesd) All of the above	
7. Which bacterium is used in the production of in	sulin by genetic engineering?	
a) Saccharomyces	c) Rhizobium	
b) Escherichia	d) Mycobacterium	

8. Protein sysntehsis occurs in	
a) Lysosomes	c) Golgi body
b) Ribosomes	d) Nucleus
9. What is the enzyme that breaks down lacto	se?
a) Lipase enzymes	c) Pepsin
b) Amylase	d) Lactase
10. The term phylum was coined by	
a) Linnaeus	c) Cuvier
b) Haeckel	d) Theophrastus
11. The function of Copper-T is	
a) Stop gastrulation	c) Stop cleavage
b) Check mutation	d) Stop fertilization
12. The age of the tree can be determined by	
a) Measuring its diameter	c) Counting the number of annual rings
b) Counting the number of leaves	d) Finding out the number of branches

CHEMISTRY

13. The reduction is a gain of

a)	Electrons	c) protons
b)	Neutrons	d) oxygen

14. Hydrogen bomb is based on the principle of :-

a) Nuclear Fissionb) Natural Radioactivityc) Nuclear Fusiond)Artificial Radioactivity

15. Good conductors have many loosely bound

a) Atomsc) protonsb) Moleculesd) electrons

16. . Silver Mirror test is given by which one of the following compounds :-

a) Benzophenone	c) Methyl alcohol
b) Formaldehyde	d) Ethyl alcohol

17. Cis-trans isomerism in alkenes is due to

a) chiral carbonb) free rotation about the double bondc) free rotation about the double bondd) restricted rotation about the double bond

18. Which of the following is a non metal that remains liquid at room temperature :-

a)	Chlorine	c) Phosphorus
b)	Bromine	d)Helium

19. The equivalent weight of an acid can be calculated by

a)	Molecular weight × basicity	c) Molecular weight/basicity
b)	Molecular weight \times acidity	d) Molecular weight/acidity

20. Which one of the following halide can be used in the Friedel-Crafts reaction?				
a) Isopropyl chloride c) Bromobenzene				
b) Chlorobenzene	d) Chloroethene			
21. Plaster of Paris (POP) is				
a) $CaSO_4 H_2O$	c) CaSO ₄ 2H ₂ O			
b) CaSO ₄	d) CaSO ₄ 1/2H ₂ O			

22. when the rate of the reaction is equal to the rate constant, the order of the reaction is

a) zero order	c) first order
b) second order	d) third order
23. Neutron was discovered by ———	
a) J.J Thomson	c) Chadwick
b) Rutherford	d) Priestley

24. Isotopes of an element have ———

- a) Different chemical and physical properties
- b) Similar chemical and physical properties
- c) Similar chemical but different physical properties
- d) Similar physical but different chemical properties

General Studies

25. When earth overshoot day was in 2022?

a) 10	August	c) 23 July
b) 28	July	d) 21 July

26. Who is current Union health Minister of India?

a)	Harsh vardhan	c) Mansukh L. Mandaviya
b)	Jay Shankar	d) Dr. Bharti pravin Pawar

27. Who is chief justice of India?

a)	U U Lalit	c) N. V. Ramana
b)	Sharad Arvind Bobde	d) None of these

28. International Yoga Day is celebrated on

a) 22 June	c)23 June
b) 21 June	d) 20 June

29. Which is largest state in terms of area in India?

a)	Madhya Pradesh	c) Uttar Pradesh
b)	Rajasthan	d) Maharastra

30. Where is the headquarters of international court of justice located

a)	New Delhi	c) Londan
b)	The Hague	d) Paris

Rough Work