

U-55-A

SUMMATIVE ASSESSMENT - I - 2018-2019

GENERAL SCIENCE - Paper - II

(Biological Science)

(English Medium)

PART - A & B

Class : IX

(Max. Marks : 40)

Time : 2.45 Mts.

Instructions :

1. Question Paper Contains Part - A & Part - B.
2. 15 Minutes are allotted for reading the question paper (Part A & B) in addition to 2.30 hours for writing the answers.
3. Part - A answers should be written in a separate answer book.
4. There are three Sections in Part - A.
5. Answer all the questions.
6. Every answer should be visible and legible.
7. There is internal choice in Section - III.
8. Part - A & B should be given at the beginning of the exam only.

Marks : 30

PART - A

Time : 2 Hrs.

Section - I

Note : 1. Answer all the Questions.

2. Each Question carries 1 Mark

3. Answer each question in 1 or 2 sentences

$4 \times 1 = 4$

1. What are different types of Ground tissues in plants ?
2. What happens if there are no mitochondria in eukaryotic cell?
3. Latha dropped some crystals of KMnO_4 in a beaker of water and observing to know what happens. What is the phenomenon that occurs in the experiment?
4. How do you appreciate the role of Earthworms in helping farmers ?

Section - II

Note : 1. Answer all the Questions.

2. Each Question carries 2 Marks

5. Describe Endoplasmic reticulum.
6. How do monocots differ from dicots.

[Turn Over

7. What happens if our tympanum ruptured?
8. Read and complete the following table according to the given information

Process / Function	Name of the Phenomenon
1. Plasma membrane determines what substances are to be allowed entry or exit from the cell.	
2. The flexibility of membrane to engulf food and other substances.	
3. Movements of water through tiny channels of plasma membrane (from lower concentration to Higher concentration.)	
4. Movement of molecules/substances from higher concentration to lower concentration.	

9. What are the steps followed by you to conserve electricity at your home or school?

Section - III

Note : 1. Answer all the Questions.

2. Each Question has internal choice

3. Each Question carries 4 Marks

4 × 4 = 16

10. a) What are the ways to observe the behaviour of animals? Explain any one of them with suitable examples.

(OR)

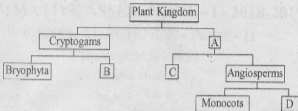
b) Write the differences between plant cell and animal cell.

11. a) Nirmala wants to observe the cells of onion peel. Explain her the procedure and materials required to do the experiment.

(OR)

b) Write the procedure followed by you to know your blood group.

12. a) Complete the following flow chart and answer the questions



- i) In which group of non flowering plants, true roots & leaves are present?
 ii) In which groups of plants Seeds are enclosed in fruit?

(OR)

- b) Read the following paragraph and answer the given question.

Connective tissues help in binding the other tissues and organs together and provide a frame work and support to various organs in the body. Areolar tissue is a type of connective tissue that helps in packing and also help to keep organs in place. Fat storing adipose tissue is found below skin and between internal organs. Bone and cartilage form skeletal system, which gives support to the body. Ligament connects bone with bone where as tendon connects muscle with bone.

- i) Which connective Tissue is called packing tissue?
 ii) Which connective tissue joins muscle with bone?
 iii) What are the main components of skeletal system ?
 iv) Where do you find adipose tissue in the body?
13. a) Draw a labelled diagram of eye. What happens if there are no cones in eye?

(OR)

- b) Draw the structure of neuron. Label parts. Write a note on Cyton?

Regd.No.

U-55-B

Marks:

SUMMATIVE ASSESSMENT - I - 2018-2019**GENERAL SCIENCE - Paper - II****(Biological Science)****(English Medium)****PART - B****Class : IX****(Marks : 10)****Time : 30 minutes**

Academic standard	AS ₁					AS ₂			AS ₃		AS ₄			Total	Grade			
	1	5	6	10	14-27	2	7	28-29	3	11	30-31	8	12			13	4	9
Q.No.S																		
Allotted Marks	16					4			6		6			4			40	
Total																		

Name of the Student : Roll No.:

Note :

- Choose the correct answers from the options given and write the CAPITAL Letter regarding
- Each Question carries $\frac{1}{2}$ mark $20 \times \frac{1}{2} = 10$
- Rewrite (Or) over writing question are not valid.

14. The plant tissue responsible for overall growth and repair is called ()

- A) Meristematic tissue B) Dermal tissue
C) Ground tissue D) Vascular tissue

15. Which blood cells are known as Natural scavengers ()

- A) Eosinophils B) Basophils
C) Monocytes D) Lymphocytes

Turn Over

16. Alternate dark and light bands are seen in which type of muscle tissue? ()
- A) Striated muscle, Cardiac muscle
B) Unstriated muscle, Cardiac muscle
C) Striated muscle, Smooth muscle
D) Striated muscle, Unstriated muscle, Cardiac muscle.
17. The chemical required to obtain semi permeable membrane from raw egg is ()
- A) Dil. Hcl
B) Sugar solution
C) Salt Solution
D) Distilled water
18. Name the scientist who developed the widely accepted Five kingdom classification? ()
- A) Linnaeus
B) Haeckel
C) Cavalier - Smith
D) Whittaker
19. Which of the following are characteristics of phylum Arthropoda ()
- i) Water vascular system ii) Jointed legs
iii) Open circulatory system iv) Slimy skin
- A) i, ii correct
B) ii, iii correct
C) iii, iv correct
D) i, iv correct.
20. Which one among these is a prokaryote ()
- A) Streptococcus
B) Euglena
C) Hydra
D) Yeast
21. The eye is divided into aqueous chamber and vitreous chamber by ()
- A) Lens
B) Pupil
C) Iris
D) Choroid

22. Equilibrium of the body, pertaining to the posture and balance are maintained by ()
A) Utriculus only
B) Utriculus, Sacculus
C) Utriculus, Sacculus and semilunar canals
D) Utriculus, Sacculus, Semicircular canals and cochlea
23. Biologically, the sense of smell begins with ()
A) Visual perception
B) Thinking of smell
C) Tasting food
D) Chemical events in nose
24. Melanin responsible for ()
A) Detection of pressure
B) Formation of nails, hair
C) Skin colour
D) Thermo regulation
25. Ducklings are able to recognise their mother because of ()
A) Impulse
B) Imprinting
C) Instinct
D) Imitation
26. What percentage of the total energy consumption of our country is due to the domestic sector? ()
A) 20% B) 30% C) 40% D) 50%
27. This place is famous for handloom saris and Kalamkari work ()
A) Teerakota
B) Kondapalli
C) Pochampalli
D) Nirmal
28. Aquatic plants float due to the presence of ()
A) Parenchyma
B) Aerenchyma
C) Collenchyma
D) Sclerenchyma

29. What happens when fresh water Amoeba kept in salt water ()
- A) Exosmosis occurs, Cell bursts
 - B) Exosmosis occurs, Cell shrinks
 - C) Endosmosis occurs, Cell bursts
 - D) Endosmosis occurs, Cell shrinks
30. What is the correct order of the steps to follow for using a microscope to observe vacuoles in plant cells ()
- 1) Place on a glass slide
 - 2) Take a piece of stem of a succulent plant
 - 3) Stain with dilute saffranine solution.
 - 4) Take thin cross section
- A) 2, 4, 3, 1
 - B) 1, 2, 3, 4
 - C) 2, 3, 4, 1
 - D) 4, 3, 1, 2
31. Which one among these is a flying mammal ()
- A) Owl
 - B) Kangaroo
 - C) Bat
 - D) Seal
32. Which one of these cell organelles, do all living things on earth depend on directly or indirectly for food ()
- A) Lysosomes
 - B) Mitochondria
 - C) Ribosomes
 - D) Chloroplasts
33. Lavanya Stopped her scooty on seeing red light of the traffic signal. This behaviour is known as _____ ()
- A) Imitation
 - B) Conditioning
 - C) Instinct
 - D) Reflex action