

NINTH CLASS MODEL PAPER (AP)

SUMMATIVE ASSESSMENT - 1

GENERAL SCIENCE (Biology)

PAPER - II (English Version)

Time: 2 Hr. 45 Min.

PART - A and B

Max.Marks: 40

Instructions:

1. 15 minutes of time is allotted for reading the question paper.
2. Answer all the questions.
3. Answer for questions under PART – A should be written in a separate answer booklet.
4. The question paper consists of 4 sections and 33 questions.
5. There is an internal choice in Section – III.
6. Write answers neatly and legibly.

Time: 2 Hrs.

PART - A

Marks: 30

SECTION – I

Note: i) Answer All questions.

$4 \times 1 = 4$

ii) Each question carries 1 mark.

1. Why are chloroplasts green in colour?
2. What will happen if apical meristem is destroyed or cut?
3. What is the specific function of cardiac muscle?
4. What happens if red blood cells are placed in distilled water?

SECTION – II

Note: i) Answer All questions.

$5 \times 2 = 10$

ii) Each question carries 2 marks.

5. How do you appreciate about the organisation of cell in the living body?
6. 'Bark cells are impervious to gases and water'. What is the reason?
7. If blood platelets are not present in the blood what happens?
8. Bindu said that the cell will die due to the removal of nucleus from the cell. Give possible reason.
9. What will happen if cells do not have ability of permeability?

SECTION – III

Note: i) Answer All questions.

4 × 4 = 16

ii) Each question carries four 4 marks.

iii) Each question has an internal choice.

10. a) Differentiate the diffusion and osmosis that occur in nature.

(OR)

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

11. a) How can you do the experiment on observing nucleus in cheek cells? Write the appropriate precautions.

(OR)

b) How can you prove osmosis through potato osmometer?

12. a) Collect information about dermal tissues of plants in what way they help them? Display it on wall magazine.

(OR)

b) Read the following table and answer the questions.

Anti - A	Anti - B	Type
Yes	No	A
No	Yes	B
Yes	Yes	AB
No	No	O

i) What do you know about the information after analysing it?

ii) Who are universal recipients?

iii) Who are universal donors?

iv) What is the use of testing blood group?

13. a) Sketch the transverse section of stem that you dissected and observed under microscope.

(OR)

b) Draw neatly labelled diagram of neuron.

SECTION - IV

I. Write capital letter (A, B, C, D) showing the correct answer for the following questions in the brackets provided against them. $10 \times \frac{1}{2} = 5$

14. Lysosomes are called ()
 A) Power houses of the cell B) Membranes of the cell
 C) Suicidal bags of the cell D) None of the above
15. In our body waste materials are filtered from the body by the process of ()
 A) Replication B) Endocytosis C) Osmosis D) Inhalation
16. Stomata are enclosed by two ()
 A) Secretory cells B) Guard cells C) Gland cells D) Parenchymatous cells
17. The tissue that responds to internal and external stimuli is ()
 A) Epithelial tissue B) Connective tissue
 C) Muscular tissue D) Nervous tissue
18. The substance that prevents blood clotting in blood vessels is ()
 A) Prothrombin B) Fibrinogen C) Heparin D) Blood platelets
19. The scientist who coined the term 'parenchyma' for the pithy part of the plant ()
 A) Bichat B) Nehemiah Grew C) Robert Brown D) Aristotle
20. Tissue that help in transport of materials are called ()
 A) Meristematic tissue B) Dermal tissue
 C) Ground tissue D) Vascular tissue
21. Microscopic policemen are ()
 A) Lymphocytes B) Monocytes C) Neutrophils D) Basophils
22. Amoeba acquires its food through a process termed as ()
 A) Exocytosis B) Endocytosis C) Plasmolysis D) Both A and B
23. Aerenchyma is richly found in ()
 A) Xerophytes B) Mesophytes C) Halophytes D) Hydrophytes

II. Fill in the Blanks. $5 \times \frac{1}{2} = 2\frac{1}{2}$

24. The entire skeleton of fishes like Sharks is made up of
25. Intercalary meristematic tissue is also known as
26. The scientist who discovered blood groups is
27. The outermost covering of the cell that separates its contents from the external environment is called
28. Dissolved substance in a solution is known as

III. Match the following.

$$5 \times \frac{1}{2} = 2\frac{1}{2}$$

Group - A

29. Robert Brown ()
30. Freddie Mercury and David Bowie ()
31. Robert Hooke ()
32. Rudolf Virchow ()
33. Schleiden ()

Group - B

- A) Botanist
B) Cell division
C) Nucleus
D) Reverse osmosis
E) Observed cell for the first time

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