

RM2

SECOND REVISION TEST - 2025**10** - Std**SCIENCE**

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Time : 3.00 Hrs

PART - I

Marks : 75

Note : (i) Answer all the questions. (ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer :-

12X1=12

- The eye defect 'presbyopia' can be corrected by
a) Convex lens b) Bi focal lens c) Concave lens d) Convex mirror
- Which of the following is correct?
a) Rate of change of charge is electrical power
b) Rate of change of charge is current
c) Rate of change of energy is current
d) Rate of change of current is charge
- Sound waves travel in air with a speed of about at NTP
a) 340×10^8 m/s b) 340 m/s c) 3×10^8 m/s d) 3×10^{-8} m/s
- Atomicity of phosphorous is
a) 4 b) 3 c) 8 d) 2
- is an important metal to form amalgam.
a) Ag b) Mg c) Al d) Hg
- Hard water contains
a) Calcium b) Magnesium c) Potassium d) Calcium and Magnesium
- The endarch condition is the characteristic feature of
a) Stem b) Root c) Leaves d) Flower
- Who is Regarded as the "Father of Modern Physiology"?
a) His - Atrio b) William Harvey c) Koal landsteiner d) Edward C Kendal
- LH is secreted by
a) Adrenal gland b) Thyroid gland c) Anterior Pituitary d) Hypothalamus
- The centromere at one end with a short and long arm rod shaped
a) Metacentric b) Acrocentric c) Submetacentric d) Telocentric
- The 'use and disuse theory' was proposed by
a) Charles Darwin b) Ernst Haeckel c) Jean Baptise Lamarck d) Gergor Mendel
- is a rice variety produced by mutation that grows well in saline soil.
a) Sharbati Sonora b) Atomita c) Pusa Gaurav d) Himgiri

PART - II

7 X 2 = 14

Note : Answer any seven question. Question No. 22 is compulsory :-

- State Newton's second law.
- State Soddy and Fajan's displacement law.
- Give any two examples for heterodiatomic molecules.
- What is aqueous and non - aqueous solution?
- Name the three basic tissues system in flowering plants.
- Who discovered Rh factor? Why was it name so?

SIVANANDHA K. M.A. B.ED.
GHS SANDHANAPPALLI
KRISHNAGIRI DT
PH:9003373506

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19. Match the following :-

Column - 1

- a) Fission -
b) Budding -
c) Fragmentation -

Column - 2

- Spirogyra
Amoeba
Yeast

20. List the theories postulated to explain the origin of life.

21. What is Stage?

22. Calculate the P^H 0.001M HNO_3 ?

7 X 4 = 28

PART - III

Note : Answer any seven question. Question No. 32 is compulsory :-

23. Explain the rules for obtaining images formed by a convex lens with the help of ray diagram.

24. List the merits of LED bulb.

25. a) Write any two application of "Avogadro's law".
b) State two conditions necessary for rusting of iron.

26. Differentiate soaps and detergents.

27. a) What is vascular bundle?
b) Draw any two types of vascular bundles.

28. State whether true or false, if false write the correct statement.

(i) a) In apoplastic movement the water travels through the cell membrane and enter the cell. b) Cerebrum controls the voluntary action of our body

(ii) Draw the Adrenal Gland and label the parts.

29. How do you differentiate homologous organs from analogous organs?

30. Discuss the importance of biotechnology in the field of medicine.

31. a) What is metastasis?

b) What are the objectives of the POCSSO act 2012?

32. a) At what height from the centre of the earth surface, the acceleration due to gravity will be 1/4th of its value of the surface of the earth.

b) Calculate the resistance of a conductor through which a current of 2A passes, when the potential difference between its ends is 30V.

PART - IV

3 X 7 = 21

Note : Answer all the question. Draw diagrams wherever necessary.

33. a) Derive the ideal gas equation. (4)

b) Name any two devices which are working on the heating effect of the electric current (2)

c) Spectral lines having frequency other than the incident ray frequency are called (1) (OR)

a) What are the applications of Doppler effect. (any two) (2)

b) 'X- rays should not be taken often' Give the reason. (5)

34. a) What is an alloy? How is metal corrosion prevented? (5)

b) What happens when $MgSO_4 \cdot 7H_2O$ is heated? Write the appropriate equation. (2) (OR)

a) What are called thermolysis reactions? (2)

b) How does P^H play an important role in everyday life? (5)

35. a) How does locomotion take place in leech? (2)

b) Why are leucocytes classified as granulocytes and agranulocytes? Name each cell and mention its functions. (OR)

a) How is the structure of DNA organised? (5)

b) What are the importance of rainwater harvesting? (2)