

SWAMI VIVEKANADA MATRIC HR SEC SCHOOL ARUMBAVUR
STD : X **TIME : 3.00 HRS**
SUB : SCIENCE **MARKS : 70 MARKS**

MODEL QUARTEERLY EXAM – 2022 -2023

PART –A

CHOOSE THE BEST ANSWER

10 X 1 =10

1. In which of the following sport the turning of effect of force used ----
 a) swimming b) tennis c) cycling d) hockey
2. The eye defect presbyopia can be corrected by ---- ?
 a) convex lens b) concave lens c) convex mirror d) none
3. SI unit of specific resistance -----? a) Ohm b) Ohm metre c) watt d) ampere
4. Mass of 1 mole of nitrogen atom is -----? a) 28 amu b)14 amu c) 28 g d) 14 g
5. ----- is an important metal to form amalgam. a) Ag b) Hg c) Mg d) Al
6. Which of the following is the universal solvent? a) Acetone b) Water c) Benzene d) Alcohol
7. If a substance is heated or cooled the change in mass of that substance is --?
 a) positive b) negative c) zero d) none
8. The endarch condition is the characteristic feature of ----?
 a) root b) stem c) leaves d) flower
9. During transpiration there is loss of ----? a) carbon di oxide b) water c) oxygen d) none
10. --- causes stomatal closure a) Auxin b) Ethylene c) Absciscic acid d) Oxytocin
11. The implantation of the embryo occurs at about ----- day of fertilization. a) 3 b) 7 c) 11 d) 15
12. The centromere is found at the centre of the ----- chromosome.
 a) Telocentric b) Acrocentric c) Metacentric d) Sub metacentric

PART – B

ANSWER ANY 5 QUESTIONS.Q.NO 16 IS COMPULSORY

7 X 2 = 14

13. What are Okazaki fragments?
14. Mention the function of endosperm?
15. Define Reflex arc.
16. Why does mammalian RBC lack cell organelles and nucleus?
17. Define Respiratory quotient?
18. state two conditions necessary for rusting iron?
19. Define Hydrated salt?
20. What connection is used in domestic appliances and why?
21. Define One calorie?
22. State Rayleigh's law of scattering .

PART – C

ANSWER ANY 5 QUESTIONS.Q.NO 27 IS COMPULSORY

7 X 4 = 28

23. Differentiate mass and weight?
24. List the properties of light?
25. a) Name any two devices which are working on the heating effect of the electric current?
 b) How does a fuse wire protect electrical appliances?
26. Give the salient a rat of "Modern atomic theory".
27. Metal A blongs to period 3 and group 13. A in red hot condition reacts with steam to form B. A with strong alkali forms C. Find A,B,C with reaction ?
28. a) A hot saturated solution of copper sulphate forms crystals as it cools. why?
 b) Difference between monocot and dicot roots?
29. List out the parasitic adaptation in leech?

30. Write the importance of transpiration?
31. Describe the structure of spinal cord?
32. a) What is bolting? How can it be induced artificially? b) Which hormone is called gaseous plant hormone?
c) which gland is called master gland?
33. a) What is need for contraception? b) What do you understand by the term phenotype and genotype?

PART – D

ANSWER THE ALL QUESTION

3 X 7 = 21

34. a) Explain the structure of a chromosome?
b) Why thyroid hormones referred as personality hormone?
(OR) What are the phases of menstrual cycle? Indicate the changes in the ovary and uterus?
35. a) Give the applications of universal law gravitation?
b) Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.
(OR)
a) Derive the ideal gas equation?
b) with the help of a circuit diagram derive the formula for the resultant resistance of three resistances connected in series?
36. a) Write a notes on various factors affecting solubility?
b) Define Relative atomic mass? (OR)
a) Difference between arteries and vein's? b) Difference between Aerobic and Anaerobic respiration?
c) Write the dental formula of rabbit?

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PGT IN PHYSICS

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