

QUARTERLY EXAM IMPORTANT QUESTIONS

FOUR MARKS

PHYSICS

- 1 What are the types of inertia? Give an example of each type?
- 2 Deduce the equation of your course using Newton's second law of motion.
- 3 Describe rocket propulsion .
- 4 Differentiate myopia and hypermetropia.
- 5 List any five properties of light.
- 6 Explain the rules for obtaining images formed by a convex lens with help of trade diagram.
- 7 Derive the ideal gas equation.
- 8 Explain the experiments of measuring the real and apparent expansion of a liquid with a diagram.
- 9 Explain about domestic electric circuit.
10. What is meant by electric current? Name and define its unit. Which instrument used to measure the electric current? How to did be connected in a circuit?
11. i. An alloy of nickel and chromium is used as the heating element why?
ii. How does a fuse wire protect electrical appliances?
iii. State Joule's law heating.

CHEMISTRY

- 12 . Give the salient features of modern atomic theory.
13. Derive the relationship between relative molecular mass and vapour density.
14. Write notes on various factors affecting solubility .
15. In what way hygroscopic substances differ from deliquescent substances.

BIOLOGY

16. Differentiate (a) monocot and dicot
(b) Aerobic and anaerobic

- 17 Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose.
- 18 How does locomotion take place in leach.
19. Explain the male reproductive system of rabbit with a labelled diagram.
20. what is transpiration? Give the importance of transpiration.
21. Enumerate the functions of blood.
22. Why are leucocytes classified as granulocytes and agranulocytes . Name each cell and mention its functions.
23. Explain the structure and function of neuron.
24. Explain the structure of spinal cord.
25. How now impulses are transferred from one neuron to next neuron.
26. Classified the neurons based on its structure.
27. Write the physiological effects of gibberelins.
28. Describe the experiment which demonstrate the growth of stimulating hormone is produced at the tip of coleoptile.
29. Which hormone is known as stress hormone in plants why?
30. With any labelled diagram describe the parts of a typical angiospermic ovule.
31. Explain the structure of a chromosome.
32. How is the structure of DNA organised? What is the biological significance of a DNA?
33. The sex of the newborn baby is a matter of chance and neither of the parents maybe considered responsible for it. What would be the possible fusion of gamut to determine the sex of the child?

Prepared

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