

813

052/21

Total Number of Questions : 32

Time : 3.00 Hours

Max. Marks : 200

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| 1. What is rock cycle ? | (2 Marks) |
| 2. What are artesian aquifers ? | (2 Marks) |
| 3. Summarize the symmetry elements and forms present in the normal class of isometric system. | (2 Marks) |
| 4. Define syngenetic and epigenetic mineral deposits. | (2 Marks) |
| 5. Differentiate between an anticline and a syncline. | (2 Marks) |
| 6. Give a short account of the hypothesis of sea floor spreading. | (4 Marks) |
| 7. Explain the modes of transport of sediments by streams. | (4 Marks) |
| 8. Illustrate the different types of seismic waves. | (4 Marks) |
| 9. Highlight on the tertiary rock formations of Kerala. | (4 Marks) |
| 10. Describe the morphological features of a trilobite fossil. | (4 Marks) |
| 11. Discuss the environmental impacts of mining. | (5 Marks) |
| 12. Describe the important physical properties of minerals with relevant examples. | (5 Marks) |
| 13. Give details about the types of unconformities. | (5 Marks) |
| 14. Explain the Bowen's reaction series. | (5 Marks) |
| 15. Give an account of the factors and types of metamorphism. | (5 Marks) |
| 16. Describe the oxidation and supergene enrichment process of ore formation. | (5 Marks) |
| 17. Explain the important mitigation methods of flood hazards. | (5 Marks) |
| 18. Give a detailed account of the internal structure of the Earth. | (7 Marks) |
| 19. Describe the various landforms of Aeolian origin. | (7 Marks) |
| 20. Give the symmetry elements of normal class of tetragonal system and highlight on the forms present. | (7 Marks) |
| 21. Describe the parts and functions of a petrological microscope. | (7 Marks) |
| 22. Explain the classification and lithology of cretaceous rocks of trichinopoly. | (7 Marks) |
| 23. Write short notes on Nebular, Planetesimal, Gaseous Tidal and Dust Cloud hypotheses of origin of the Earth. | (10 Marks) |
| 24. Give an account of the physical and chemical weathering processes of rocks. | (10 Marks) |
| 25. Describe the types of plate boundaries. | (10 Marks) |
| 26. Discuss the conditions and modes of fossilization. | (10 Marks) |
| 27. Give details on the important textures of igneous rocks. | (10 Marks) |
| 28. Illustrate the important structures of sedimentary rocks. | (10 Marks) |
| 29. Give an account of the lithology, classification and economic importance of the Vindhyan supergroup. | (10 Marks) |
| 30. Describe the mode of occurrence, distribution in India and important economic uses of Lead-Zinc Ore deposits. | (10 Marks) |
| 31. Give an account of the geological time scale. | (10 Marks) |
| 32. Describe the morphological features, classification and geological history of the phylum brachiopoda. | (10 Marks) |