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CE8404 CONCRETE TECHNOLOGY

Important 13 Mark Questions

<u>Part-B</u>

- 1. Explain in detail the Hydration mechanism of cement. Also explain how you determine the reactivity of any cementation's material.
- 2. Compare the physical properties of 33,43, and 53 grades of concrete?
- 3. Discuss the requirements of physical and mechanical properties of good aggregate for concreting?
- 4. What is the effect of water cement ratio on strength and durability of concrete?
- 5. Examine the various type of plasticizers used in concrete and discuss the action in detail.
- 6. Differentiate between accelerators and retarders with suitable examples and also how you can determine dosage of admixtures?
- 7. Explain in detail about any four IS testing procedure for coarse aggregates?
- 8. Explain in detail about any four IS testing procedure for cement?
- 9. Explain physical properties of OPC.
- 10. What are initial and final setting time of cement and explain its importance.
- 11. Briefly describe about test on aggregate Specific gravity test crushing test and Impact test.
- 12. Define is super plasticizers? What are the classifications of super plasticizers?
- 13. What are chemical admixtures and Explain any four.
- 14. Explain the effects of GGBS and fly ash in concrete
- 15. Explain briefly about accelerators and retarders and water proofers.
- 16. Explain any five types of cement
- 17. Explain the types of chemical admixtures.
- 18. Briefly explain about properties of Aggregates.
- 19. Explain the mix design procedure for Concrete as per IS method. What is workability of concrete and Write its importance & significance of Workability.
- 20. Explain the procedure of any 3 tests Conducted on workability of concrete.
- 21. Explain the factors affecting the workability of concrete.
- 22. Describe the testing procedure for Conducting slump test in detail.

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- 23. Discuss the role of various major compounds of cement and its hydrated products in the properties of cement?
- 24. Explain the Initial and final setting time of cement? What is their Importance?
- 25. Discuss the characteristics of good aggregate?
- 26. Examine the various type of plasticizers used in concrete and discuss the action in detail
- 27. Differentiate between accelerators and retarders with suitable examples and also how you can determine dosage of admixtures?
- 28. Explain about the fly ash? Write its characteristics and its effect briefly?
- 29. Explain the effect of concrete properties while adding silica fume and GGBS.
- 30. Explain the factors affecting proportioning of concrete mix? Discuss each in detail.
- 31. Explain the properties of concrete related to the mix design.
- 32. Explain the Physical properties of materials required for mix design.
- 33. Explain the requirements of concrete mix design.
- 34. Experiment with the procedure of compaction factor and slump cone test for testing workability of fresh concrete.
- 35. Experiment with the procedure of compressive and flexural strength test conducted on cement concrete element with neat sketch.
- 36. What are the effect of concrete properties while adding Ground granulated blast furnace slag and silica fume?
- 37. Illustrate the requirements of concrete mix design.
- 38. Demonstrate the Physical properties of materials required for mix design.
- 39. Explain the properties of concrete related to the mix design.
- 40. Explain the factors affecting proportioning of concrete mix? Discuss each in detail.
- 41. Explain about flexural and compressive strength test conducted on cement concrete element with neat sketch
- 42. Explain about compaction factor and slump cone test for testing workability of fresh concrete.
- 43. Explain with the procedure of Flow table test on fresh concrete and corrosion test on hardened concrete element with neat sketch.
- 44. Explain Shrinkage, Segregation and Bleeding.
- 45. Explain the factors influencing the Durability of concrete?
- 46. Explain the factors influencing the strength of concrete?
- 47. Examine about Vacuum concrete.
- 48. Examine about Fibre reinforced concrete.

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- 49. Examine about Light weight concrete.
- 50. Examine about Self compacting Concrete.
- 51. Explain with the procedure of Bleeding test on fresh concrete and flexural strength test conducted on hardened concrete element with neat sketch.
- 52. Explain with the procedure of Corrosion test and Split tensile strength test conducted on cement concrete element with neat sketch.
- 53. Examine about High strength concrete.
- 54. Examine about High-Performance concrete.
- 55. Explain detailed about Light weight concrete and its types.
- 56. Explain the various properties of SIFCON concrete.
- 57. What meant by Ready Mix Concrete? Explain their advantages and disadvantages.
- 58. What is Shotcrete? Explain the procedure Shotcrete surface.
- 59. Explain the following of High strength geopolymer Concrete.
- 60. Explain in detail about the production, Application and advantages of polymer concrete.
- 61. What is mean by fiber reinforced concrete? Explain its method of production and materials used?