UNIT-I

SURVEYING AND CIVIL ENGINEERING MATERIALS

- 1. What is surveying?
- 2. what is the objective of surveying?
- 3. what is the difference between a plan and a map?
- 4. what are the two major types of surveying
- 5. Differentiate between plane surveying and geodetic surveying?
- 6. How the surveying is classified based on purpose
- 7. State the principles of surveying.
- 8. What are the accessories used in chain surveying?
- 9. Define bearing of a line.
- 10. What are the systems of bearing
- 11. What is meant by local attraction & state its effects?
- 12. Define leveling and state its objectives
- 13. Define benchmark and state its effects
- 14. How rocks are classified?
- 15. What is quarrying & dressing of stones
- 16. What are the uses of stones?
- 17. State the uses of cement?
- 18. State the properties of cement concrete.
- 19. What is proportioning of concrete?
- 20. Define workability of concrete.

UNIT-II

BUILDING COMPONENTS AND STRUCTURES

- 1. State the objectives and requirements of good foundation?
- 2. Differentiate between shallow foundation and deep foundation.
- 3. Define bearing capacity of soil.
- 4. How the stone masonry is classified?
- 5. Define the following terms.
- i) Corbel
- ii) Cornice
- iii) Coping
- iv) String course
- v) Through stone
- 6. Compare stone masonry and Brick masonry
- 7. Why bonding in brick wall is essential?
- 8. State the special features of English and Flemish bond.
- 9. Define beam, column and Lintel.
- 10. Classify the types of column based on its conditions.
- 11. State the purpose of plastering.
- 12. Define Dam, Bridge and classify them
- 13. What are the basic components of a bridge?
- 14. What is the purpose of reinforced concrete?
- 15. Define factor of safety.

UNIT- III

POWER PLANT ENGINEERING

- 1. What are the types of power plant?
- 2. What are the parts of thermal power plant?
- 3. What is the purpose of Surge tank in hydro power plant?
- 4. Classify the hydro power plant.
- 5. What is the function of Draft tube?
- 6. Define Nuclear Fission. Write chain reaction.
- 7. What is the function of Moderator?
- 8. Write down the Merits and Demerits of Disel engine power plant.
- 9. List out the parts of the Gas turbine power plant.
- 10. Define Pump and Turbine.
- 11. Define Cavitations.
- 12. Define Primiming in Centrifugal Pump.
- 13. What is impulse turbine? Give example
- 14. What is Reaction turbine? Give example.

UNIT IV

INTERNAL COMBUSTION ENGINES

- 1. What is heat engine?
- 2. Define I.C Engine and E.C. Engine
- 3. Classify the I.C engine.
- 4. List out the Part of the I.C. Engine
- 5. Define the terms: Top Dead Center, Bottom Dead Center.
- 6. Define the term: Compression Ratio.
- 7. What do you understand by Scavenging?
- 8. Define Boiler.
- 9. Classify Boilers.
- 10. Define fire tube boiler and water tube boiler.
- 11. List out the Boiler Mountings and Accessories.
- 12. What is the Purpose of a fusible Plug?

UNIT V

REFRIGERATION & AIR CONDITIONING

- 1. Define Refrigeration.
- 2. Define refrigerant
- 3. Define C.O.P.
- 4. Define refrigerant. Give some examples of refrigerant.
- 5. Give some properties of good refrigerant.
- 6. Mention some of the applications of refrigeration.
- 7. Define relative humidity
- 8. Define psychrometry.
- 9. Define DBT and WBT.
- 10. What is a dew point temperature?
- 11. Define humidity
- 12. Mention the classification of air conditioning system.
- 13. Define year–round air conditioning system