

7. A two stroke cycle engine gives the number of power strokes as compared to the four stroke cycle engine, at the same engine speed CO4-R
- (a) Half (b) Same (c) Double (d) Four times
8. Which of the following is not an internal combustion engine CO4-R
- (a) 2 stroke petrol engine (b) 4 stroke petrol engine
(c) Diesel engine (d) Steam turbine
9. One tonne of refrigeration is equal to CO5-R
- (a) 21/kJ/min (b) 210/kJ/min (c) 420/kJ/min (d) 620/kJ/min
10. The refrigerator which does not require compressor is called CO5-R
- (a) Vapour absorption refrigerator (b) Vapour compression refrigerator
(c) Electrolux refrigerator (d) Carnot refrigerator

PART – B (5 x 2= 10Marks)

11. What is surveying? CO1-R
12. State the objectives and requirements of good foundation? CO2-R
13. What is the purpose of Surge tank in hydro power plant? CO3-R
14. What do you understand by Scavenging? CO4-R
15. Define humidity CO5-R

PART – C (5 x 16= 80Marks)

16. (a) Explain with neat sketch prismatic compass and principles of compass surveying CO1-U (16)
- Or
- (b) What are the different types of steel? Explain the properties and uses? CO1-U (16)
17. (a) (i) List the six important points to be considered while selecting a site for construction of Dam. CO2-U (8)
- (ii) Explain differential leveling with a neat sketch CO2-U (8)
- Or
- (b) Explain with neat sketch the different types of piles. CO2-U (16)

18. (a) Explain working principle of Nuclear Power plant with neat sketch CO3-U (16)
- Or
- (b) Explain working principle of thermal Power plant with neat sketch CO3-U (16)
19. (a) Describe the principal parts and functions of a Two Stroke Petrol engine with neat Sketch CO4-U (16)
- Or
- (b) Describe the principal parts and functions of any one high pressure boiler with neat sketch CO4-U (16)
20. (a) Explain the operation of any one type of refrigeration system with the schematic line diagram. CO5-U (16)
- Or
- (b) With the neat sketch explain the layout of a window room air conditioning CO5-U (16)

