

16. Explain pressure inductive Transducer
17. A certain crystal has a coupling coefficient of 0.32. How much electrical energy must be applied to produce an output of 7 milli joules of mechanical energy?
18. Explain with a diagram the working of a digital pH meter. How is pH measured?
19. Describe a true RMS voltmeter with a neat diagram
20. What is a sweep generator? Explain its function.
21. What are the functions of blanking and synchronizing pulses in TV transmission?

(5 x 4 = 20)

Section D

Answer any 3 (12 marks each)

22. Explain the method of measuring displacement using LVDT. State the advantages and disadvantages of LVDT.
23. Explain the principle and operation of pressure transducer employing resistive Transducer and inductive transducer
24. Describe with a neat diagram the operation of a chopper type micro voltmeter.
25. With a neat diagram explain the components of CRO.
26. Discuss in detail transmission line characteristic impedance, its calculation and losses in transmission lines.
27. Explain the sky wave propagation in Ionosphere

(12 x 3 = 36)