

50484



12. a) Describe the construction and working principle of single phase induction type energy meter. Write a short note on any adjustment required in energy meter. (13)
- (OR)
- b) i) How do you determine the B-H curve using 'step by step' method? (8)
ii) Explain with neat sketch any one type of instrumentation transformer. (5)
13. a) i) Draw a neat sketch of a modern slide-wire D.C. potentiometer and discuss how the potentiometer is standardized. (8)
ii) Describe the operation of A.C. potentiometer. (5)
- (OR)
- b) Explain in detail about the interference and screening in measurements. (13)
14. a) i) Explain the features of digital plotters and printers. (8)
ii) Explain the construction and working principle of Magnetic tape recorder. (5)
- (OR)
- b) Describe the LED and LCD display devices. (13)
15. a) What are the selection criteria for a transducer? Explain the working principle of LVDT with neat sketch. Mention the advantages and applications of LVDT. (13)
- (OR)
- b) What are the performance parameters of analog to digital converter? Explain any two basic A/D conversion techniques in detail. (13)

PART - C

(1×15=15 Marks)

16. a) Explain in detail about Hall effect transducer and mention some applications of Hall effect transducer. (15)
- (OR)
- b) Explain in detail the elements of Data Acquisition System. (15)