

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. A basic bridge consists of ----- arms []
a) 2 b) 3 c) 4 d) None of the above
2. Maxwells bridge is used to measure unknown ----- []
a) Resistance b) Inductance c) Capacitance d) None of the above
3. Andersons bridge is used to measure unknown ----- []
a) Resistance b) Inductance c) Capacitance d) None of the above
4. A wave analyzer consists of very narrow band filter which can be tuned to a particular frequency within the audible frequency range ----- []
a) 20Hz - 20 KHz b) 20 KHz – 30 KHz c) 30 KHz – 40 KHz d) None of the above
5. The errors occurred in frequency counter while measuring are ----- errors []
a) Trigger level b) Gating c) Time base d) All of the above
6. Absorption hygrometers are classified into ----- types []
a) 2 b) 3 c) 4 d) None of the above
7. In PH measurements, the glass electrode is coupled with saturated calomel ----- cell reference electrode []
a) Half b) Full c) Double d) None of the above
8. In the density measurement using the differential pressure type, the pressure drop across blower is proportional to ----- []
a) Temperature b) Pressure c) Velocity d) Density
9. A data transmission consists of ----- []
a) Transmitter b) Receiver c) Both a & b d) None of the above
10. In optical fibers, the total internal reflection angle of incidence should be ----- critical angle []
a) Smaller than b) Greater than c) Equal to d) None of the above

Cont.....2

II Fill in the blanks:

11. The Wheatstone bridge is limited to the measurement of resistances ranging from ----- ohms to several ----- ohms.
12. Kelvin bridge provides great accuracy in the measurement of ----- value resistance.
13. There are three methods for connecting unknown components to the test terminals of a Q meter -----, ----- and -----.
14. A universal counter is a device used to measure both ----- and -----.
15. In a wave meter, the output of a variable frequency oscillator is ----- successfully with each harmonic of the input signal.
16. Hygrometers are called membrane hygrometers when the sensing element is -----.
17. In a chopper amplifier type PH meter, the direct voltage from the electrodes is chopped at the main frequency and amplified as an alternating voltage and the output is rectified by -----
18. ----- fiber is used to transmit an analog voltage signal from one location to another.
19. GPIB stands for -----
20. In RF telemetry, the link between the transmission station and the receiver station can only be established through ----- links.

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