Online Assessment (Even Sem/Part-I/Part-II Special Examinations of Intermediate semester 2019 - 2020

Course Name - Electrical Measuring Instrument
Course Code - DEE402

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Answer all the questions. Each question carry one mark.

9. 1. In measurement systems which of the followings static characteristics are desirable

Mark only one oval.

- Accuracy
- Sensitivity
- Reproducibility
- All of these

10. 2. Which instrument has the lowest resistance?

Mark only one oval.

- ammeter
- voltmeter
- frequency meter
- Megger

11. 3. The usage of electronic instruments is becoming more extensive because the have

Mark only one oval.

- a high sensitive and reliability
- a fast response and compatibility with digital computers
- the capability to respond to signals from remote places
- All of these

12. 4. The deviation of a reading from the expected value

Mark only one oval.

- accuracy
- precision
- error
- difference

13. 5. Damping torque is essential to

Mark only one oval.

- Increase oscillate
- Reduce oscillation
- Maintain oscillation
- None of these

14. 6. Which torque is essential for indicating instruments?

Mark only one oval.

- Deflecting
- Controlling
- Damping
- All of these

15. 7. The type of instruments used mainly for standardizing instruments in laboratories is

Mark only one oval.

- Indicating instrument
- Integrating instrument
- Absolute instrument
- Recording instrument

16. 8. The most efficient form of damping employed in electric instruments is

Mark only one oval.

- Air friction damping
- Fluid friction damping
- Eddy current daming
- None of these

17. 9. Moving coil (PMMC) and moving iron instruments can be distinguished by observing its.

Mark only one oval.

- range
- scale
- size of terminals
- pointer

18. 10. For increasing the range of ammeter, one should connect a

Mark only one oval.

- High resistance in shunt
- Low resistance in shunt
- High resistance in series
- Low resistance in series

19. 11. An electrodynamometer type of instruments finds its major use as

Mark only one oval.

- Standard instrument only
- Both as or standard and transfer instruments
- Transfer instrument only
- An indicator type of instrument

20. 12. Current transformers and potential transformers are used to increase the ranges of

Mark only one oval.

- AC ammeter and AC voltmeter respectively
- AC ammeter and DC voltmeter respectively
- DC ammeter and DC voltmeter respectively
- DC ammeter and AC voltmeter respectively

21. 13. Moving coil instruments have which one of the following scales

Mark only one oval.

- Logarithmic scale
- Uniform scale
- Non-uniform scale
- Squared scale

22. 14. What type of errors are due to shortcomings of instruments like detective (or) worn parts ?

Mark only one oval.

- Gross errors
- Systematic errors
- Random errors
- Environmental errors

23. 15. A dynamometer wattmeter can be used for

Mark only one oval.

- D.C. only
- A.C. only
- both D.C. and A.C
- None of these

24. 16. Power indicated while measuring power in a dc circuit using an ammeter and a voltmeter, when the voltmeter is connected to the load side, is

Mark only one oval.

- true power consumed by the load
- power consumed by the load plus power lost in ammeter
- power consumed by the load plus power lost in voltmeter
- power consumed by load plus power lost in both ammeter and voltmeter

25. 17. Power loss in the current coil is _____

Mark only one oval.

- less
- more
- intermediate
- very less

26. 18. A dynamometer type wattmeter consists of

Mark only one oval.

- only potential coil
- only current coil
- No coil
- potential and current coils

27. 19. Creeping is avoided by _____

Mark only one oval.

- reversing the polarity of the voltage
- drilling two diametrically opposite holes
- holding the disc
- increasing the friction

28. 20. Two wattmeters can be used to measure power in a

Mark only one oval.

- three-phase four-wire balanced load
- three-phase three-wire unbalanced load
- three-phase four-wire unbalanced load
- all of the above

29. 21. In a Dynamometer type wattmeter, the fixed coil is split into

Mark only one oval.

- 1
- 2
- 3
- 4

30. 22. Energy meter runs slowly even if power is not used. This error is called

Mark only one oval.

- Speed error
- Creeping error
- Phase error
- None of these

31. 23. In an energy meter braking torque is produced to

Mark only one oval.

- Safe guard it against creep
- Brake the instrument
- Bring energy meter to stand still
- Maintain steady speed and equal to driving torque

32. 24. If a galvanometer is sensitive, it will provide large deflection on providing-

Mark only one oval.

- No current
- Large power
- Small current
- large voltage

33. 25. To measure a very high resistance, we should use .....

Mark only one oval.

- Kelvin's double bridge
- Wheat stone bridge
- Meggar
- None of these

34. 26. Maxwell inductance capacitance bridge can be used for _____

Mark only one oval.

- measurement of inductance
- measurement of capacitance and inductance
- measurement of resistance
- measurement of voltage and current

35. 27. C.T and P.T are used

Mark only one oval.

- Measuring low current and voltage
- Measuring very low current and voltage
- None of them
- Measuring high current and voltage

36. 28. Ratio error in a P.T. depends on _____

Mark only one oval.

- secondary current
- primary voltage
- primary current
- turns ratio

37. 29. The deflection torque can be produced by:

Mark only one oval.

- Gravity control
- Spring control
- Magnetically
- Air Friction

38. 30. Wheatstone bridge is used to measure resistance in the range of _____

Mark only one oval.

- 1Ω to a few megaohms
- 10kΩ to a few megaohms
- 100MΩ to a few gegaohms
- 100Ω to a few teraohms