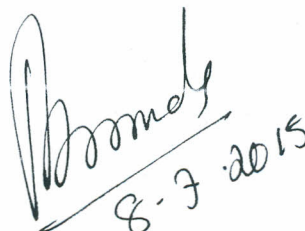


WRITTEN TEST FOR MFCP OF TECHNICIAN (ELECTRICAL)
HELD ON 08/07/2015

1. The filament of an electric bulb is made of
A) Steel B) Copper C) Tungsten D) Carbon
2. Transformer operates with
A) only A.C current B) only D.C current
C) A.C or D.C current D) A.C & D.C current
3. $KW = KVA \times \text{-----}$
A) 1.732 B) Line Volt C) Power factor D) 1.11
4. Electric heater wires are generally made of
A) carbon B) steel C) copper D) nichrome
5. In a lead acid battery, the level of electrolyte should be
A) below the level of plates
B) up to the level of plates
C) above the level of plates
D) container should be full of electrolyte so that there is no air inside
6. One micro volt is
A) 0.001V B) 0.0001V C) 0.00001V D) 0.000001V
7. Form factor for sine wave is
A) 0.667 B) 0.707 C) 1.11 D) 1.414
8. Distance between pipe earth electrodes as per electrical inspectorate standards
A) 5M B) 2M C) 10M D) 10cm
9. A capacitor consists of two
A) insulation separated by a dielectric B) conductors separated by an insulator
C) ceramic plates and one mica disc D) silver-coated insulators
10. "Low voltage" is voltage not exceeding-----
A) 230 V B) 440V C) 250V D) 650V
11. Earth resistance (Maximum) of small substations should be
A) 2 Ohms B) 10 Ohms
C) 1 Ohm D) 0.5 Ohm
12. For a sine wave with peak value "I" the r.m.s value is
A) 0.818 I B) 0.707I C) 0.5 I D) 1.414 I

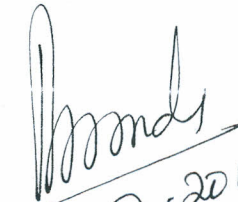

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WRITTEN TEST FOR MFCP OF TECHNICIAN (ELECTRICAL)
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13. Buchholz relay is used on
A) Mercury arc rectifiers B) Transformers
C) D.C series motors D) Alternators
14. Most of the power generation in India is through
A) Thermal power plants B) Nuclear power plants
C) Diesel power plants D) Gas turbine power plants
15. Power factor is given by
A) KWH/KW B) Active power/Reactive power
C) Reactive power/Active power D) KW/KWh
16. Highest transmission voltage used in India is
A) 440V B) 11KV C) 132KV D) 400KV
17. Wave form of domestic power supply is
A) square B) saw tooth C) sinusoidal D) triangular
18. The state of charge of a battery can be confirmed from
A) colour of battery terminals B) level of electrolyte
C) density of electrolyte D) rate of air bubble formation
19. Insulators are generally made of
A) Glass B) Porcelain C) RCC D) Cadmium
20. Buchholz relay is generally used with
A) Induction motor B) Synchronous motor
C) capacitor bank D) transformer
21. Approximate current rating of 25 Sq mm aluminium electrical cable is
A) 20A B) 70A C) 10A D) 150A
22. Watt meter is used for measuring
A) electric current B) electric power
C) resistance D) capacitance
23. Which of the following losses are significantly reduced by laminating the core of a D.C generator
A) hysteresis losses B) eddy current losses
C) copper losses D) windage losses

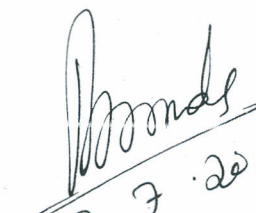
WRITTEN TEST FOR MFCP OF TECHNICIAN (ELECTRICAL)
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24. Which of the following electrical load offers nearly unity power factor
A) tube light
B) induction motor
C) arc furnace
D) GLS lamp
25. In capacitor start and run motors the function of the running capacitor in series with the auxiliary winding is
A) to improve torque
B) reduce fluctuations in torque
C) increase over load capacity
D) improve power factor
26. Transformer core is laminated to
A) reduce eddy current losses
B) reduce hysteresis losses
C) reduce copper losses
D) reduce windage losses
27. Presence of moisture in transformer cooling oil
A) improve cooling rate
B) increase sludge formation
C) increase dielectric strength
D) reduces dielectric strength
28. What will happen when the supply terminals of a D.C shunt motor are reversed
A) the motor will burn
B) the motor will not run
C) the motor will run as a generator
D) the motor will run in reverse direction
29. A capacitor consists of two
A) insulation separated by a dielectric
B) conductors separated by an insulator
C) ceramic plates and one mica disc
D) silver-coated insulators
30. Sulphation in a lead acid battery occurs due to
A) trickle charging
B) incomplete charging
C) heavy discharging
D) fast charging
31. Presence of moisture in transformer cooling oil-
A) improve cooling rate
B) increase sludge formation
C) increase dielectric strength
D) reduces dielectric strength
32. The area of cross section of electrical cable is normally said in
A) square feet
B) square inch
C) feet
D) square mm
33. Which of the following essentially needs direct current
A) welding
B) heating
C) refrigeration
D) electroplating
34. Watt meter is used for measuring
A) power
B) voltage
C) power factor
D) current


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35. Which material among the following is the best conductor of electricity
A) Steel B) Iron C) Copper D) Aluminium
36. Which of the following is used for measuring electric current
A) Potentiometer B) Potential transformer
C) Current transformer D) Rheostat
37. The minimum size of aluminium conductor cable required for carrying current of 70 A shall be
A) 4 Sq mm B) 120 Sq mm C) 70 Sqmm D) 35 Sq mm
38. ---- square mm aluminium cable is required to carry current of 275 Amperes
A) 16 B) 70 C) 400 D) 240
39. Specification of conduits used for electrical wiring is generally said in
A) milli meter(mm) B) Kg C) Pound D) Kilo meter
40. Capacity of Diesel generator is known in
A) Kg B) Amperes C) KVA D) Ohms
41. In open conduit wiring, distance between 2 saddles shall be approximately
A) 5 Meters B) 1 Meter C) 7 Meters D) 0.1 Meter
42. 1 KW pure resistance load is connected to 230 V a.c supply. The current drawn by the load is
A) 5A B) 3.5 A C) 4.3 A D) 8A
43. The power factor for pure resistance type electrical load is
A) 0 B) 0.5 C) between 0.7 and 0.9 D) 1 or near to 1
44. Power factor of electrical loads can be improved by
A) connecting capacitor B) connecting inductance
C) connecting resistance D) connecting both inductance and resistance
45. Which of the following is not the part of diesel generator
A) spark plug B) diesel
C) fuel filter D) starter
46. Ammeter is used for measuring
A) voltage B) current
C) resistance D) capacitance


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47. Which of the following is the generation of electricity with less pollution
A) Thermal B) Nuclear
C) Diesel D) Hydro
48. The wave form of electricity used in home, office etc. is
A) saw tooth B) Square
C) Sinusoidal D) Combination of saw tooth & square
49. For switching ON/OFF 11KV power supply which of the following is generally used.
A) MCB B) TPN switch C) Circuit breaker D) MCCB
50. Among the following which material is relatively good conductor of electricity
A) Copper B) aluminium C) zinc D) plastic


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