

PAPER-I
ELECTRICIAN
(THEORY & EMPLOYABILITY SKILLS)
SEMESTER-I

TIME:3 Hrs MARKS: 200

Note:- This paper contains two parts-Part A & Part B.

Attempt all the questions.

Each question carry equal marks.

This paper carries negative marking.25% marks will be deducted for each wrong answer.

PART-A (THEORY) (MARKS-150)

Choose the correct answer:

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| 1. | The Resistance of a 100w,200v lamp is (A) 100Ω (B) 200 Ω (C) 400 Ω (D) 1600 Ω |
| 2. | A lamp of 100w,230v is connected across 100v,output watt will be (A) 50w (B) 40w (C) 10w (D) 25w |
| 3. | The specific gravity of acid is checked with the help of a (A) Hygrometer (B) Hydrometer (C) Cell Tester (D) Lectometer |
| 4. | Two capacitor each 10 micro farad are connected in series equivalent capacitance will be (A) 20 micro farad (B) 5 micro farad (C) 10 Micro farad (D) 2 micro farad |
| 5. | Which of the following is not a unit of flux (A) Welder (B) Tesla (C) Maxwell (D) All of the above |
| 6. | 1 Tesla is equal to 1wb/[mm] ² (B) 1mwb/m ² (C) 1wb/m ² (D) Gauss |
| 7. | The unit of impedance is (A) Henry (B) Farad (C) Ohm (D) weber |
| 8. | If three equal registers are arranged in a triangle resistance across any two point will be 3R (B) 2R (C) $\frac{2}{3}R$ (D) $\frac{3}{2}R$ |
| 9. | 1 weber is _____ maxwell (A) 10^6 (B) 10^4 (C) 10^3 (D) 10^9 |
| 10. | In case of R-L-C series Resonance XL = XC (B) V _S = V _R (C) V _L = V _C (D) All of the above |
| 11. | If rms value of 50hz A.C in 111V average value will be (A) 120V (B) 141V (C) 100V (D) 200V |
| 12. | If VxI = wattmeter reading then p.f in (A) 0 (B) Lagging (C) unity (D) Leading |
| 13. | The strength of an electromagnet can be changed by changing (A) Current (B) number of turn (C) both A & B (D) none of the above. |
| 14. | Heating element is made of wire (A) Copper (B) Aluminium (C) nichrome (D) Iron |
| 15. | A certain wire having resistance of 10 ohm if it is stretched to double its length its resistance will be (A) 10 ohm (B) 20 ohm (C) 40 ohm (D) 100 ohm |
| 16. | A fuse is connected _____ with load or supply (A) Parallel (B) series (C) either A & B (D) any of above |
| 17. | The unit of conductance is Ohm (B) $\frac{1}{\text{ohm}}$ (C) mho (D) either B & C |
| 18. | The positive electrode of leclanche cell is (A) Copper (B) Silver (C) Carbon (D) Zinc |
| 19. | The capacity of Battery is expressed in (A) Volt (B) AH (C) Coulomb (D) Joule |
| 20. | The energy stored in a Capacitor is _____ Joule $\frac{1}{2} CV^2$ (B) $\frac{1}{2} qv$ (C) $Q^2/2C$ (D) Any of above |
| 21. | File is a _____ device (A) Holding (B) Drilling (C) Cutting (D) Measuring |
| 22. | The melting point of Copper is (A) 1034°C (B) 1080°C (C) 2000°C (D) 950°C Degree |
| 23. | Which is not unit of Voltage (A) Joule/Coulomb (B) Coulomb/Farad (C) Volt (D) All of above. |

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| 24 | Voltage is inversely proportional to current when _____ is constant (A) Resistance (B) Conductance (C) Energy (D) Power |
| 25 | The Resistance of human Body is (A) 1 MΩ (B) 1 KΩ (C) 10 KΩ (D) 0 ohm |
| 26 | The Permeability of para magnetic material is (A) Less than one (B) Greater than one (C) Equal to one (D) None of these |
| 27 | The time period (T) is known as (A) 1/2F (B) F/2 (C) 1/F (D) F |
| 28 | In order to check the clearance between two mating surface is _____ gauge is used (A) Ring (B) Thickness (C) Fuler (D) Plug |
| 29 | The resistance of _____ 20 KΩ has a conductance of (A) 20 S (B) 0.05ms (C) 0.05S (D) 20KS |
| 30 | The operation of bending sheet of metal along the circular axis is known as (A) Plunging (B) Notching (C) Slitting (D) Forming |
| 31 | The capacitor does not allow sudden change in (A) Power (B) Voltage (C) Current (D) Resistance |
| 32 | Internal Resistance of Ideal Current Source is (A) Zero (B) Infinite b (C) Finite (D) None of these |
| 33 | Capacitors for p.f correction are rated in (A) KW (B) KV (C) KVA (D) KVAR |
| 34 | Cold Chisel is made (A) Rolling (B) Drawing (C) Forging (D) Piering |
| 35 | Power circuit read Socket / plug with (A) 25A (B) 16A (C) 6A (D) 10A |
| 36 | A Battery consists of (A) Cell (B) Generator (C) No. of Cells (D) Circuit |
| 37 | The file teeth are cleaned with (A) Cold water (B) Dilute acid (C) File card (D) Hot water |
| 38 | Polarised capacitor is (A) Mica capacitor (B) Ceramic Capacitor (C) Paper Capacitors (D) Electrolyte Capacitor |
| 39 | One KWH is equal to (A) 1000 K.Cal (B) 860 K.Cal (C) 1000 Cal (D) 500 Cal |
| 40 | Which is following material has least resistivity (A) Copper (B) Zinc (C) Silver (D) Gold |
| 41 | In para sine wave average value of full cycle is (A) 1 (B) 1.11 (C) Zero (D) 1.414 |
| 42 | Two power consumed by pure inductor is (A) VxA (B) Unity (C) Zero (D) VAR |
| 43 | Phase angle between Voltage and current is 0° 0 C Pure resistive (B) R-L-C series resistance (C) R-L-C Parallel resistance (D) All the above |
| 44 | Power consumed in a circuit is $I^2 R$ where I stands for Rms value (B) average value (C) Max value (D) any of above |
| 45 | E/Cell is 2 V , P/Cell is 0.5 Ω , five nos in series supplies 2A to a load resistance is (A) 0.5Ω (B) 2.5Ω (C) 2Ω (D) None of these |
| 46 | Maximum value of a.c voltage can be measured by (A) Voltmeter (B) Multimeter (C) C.R.O (D) Voltmeter |
| 47 | One Calorie is equal to 1 kh water x 1°0c (B) 1 gr water x 1°0c (C) 1 kr water x 2°0c (D) Any of above |
| 48 | The unit of dielectric strength is (A) KV (B) K.V/mm (C) Volt/m (D) Any of above |
| 49 | When switch is a _____ device (A) Controlling (B) Consuming (C) Safety (D) Conducting |
| 50 | One metric H.P is equal to _____ watt. (A) 746 (B) 345 (C) 535.6 (D) 1000w |