

RTV

RTA (th.) IVC

Candidate are required to give their answers in their own word as for as Practicable

परीक्षार्थी यथा सम्भव अपने शब्दों में ही उत्तर दें ।

Time :-3 Hours 15 Min.

Full Marks :-100

Instruction / निर्देश -

- (i) Candidates are required to give their answers in their own words as for as Practicable
- (ii) Question are divided into three Groups A,B,C
- (iii) Group-A contains objective type questions with one correct answer. Total number of question are 50, each carries one marks.
- (iv) Group B contains 22 short answer questions. Candidates are required to answer any 15 questions. Each questions carries 2 marks.
- (v) Group C contains long answer type question. Total number of question are four. All the four question are compulsory. Each question carries 5 marks.

GROUP-A (Objective Question)

1x50=50

1. Alternating current hasfrequency.
(i) 75 Hz (ii) 60Hz (iii) 66Hz (iv) 50Hz
2. Direct current has.....frequency
(i) 60Hz (ii) 45Hz (iii) 50Hz (iv) No
3. Electron is a fundamental Particle of an.....
(i) Atom (ii) Boron (iii) Silicon (iv) Jermeniun
4. Electron hasCharge
(i) Positive (ii) Negative (iii) No (iv) Neutral
5. Proton has.....charge
(i) Positive (ii) Negative (iii) No Charge (iv) Neutral
6. Conductors are good for
(i) Electricity (ii) Velocity (iii) Viscosity (iv) Accelaration
7. Insulators are bad for
(i) Velocity (ii) Viscosity (iii) Electricity (iv) Accelaration
8. Unit for a resistor is.....
(i) Farad (ii) Oham (iii) Coloumb (iv) Ampere

9. Unit for a capacitor is.....
(i) Ohm (ii) Coloumb (iii) Farad (iv) Ampere
10. Total Resistance in series
(i) Decreases (ii) Increases (iii) Remain same (iv) Multiplied
11. Total resistance in parallel.....
(i) Increases (ii) Decreases (iii) Remain same (iv) Multiplied
12. A Capacitor blocks.....
(i) Allternative Current (ii) Direct Current (iii) Current (iv) Voltage
13. A Capacitor passes.....
(i) Allternative Current (ii) Direct Current (iii) Current (iv) Voltage
14. Capacity of capacitors in series.....
(i) Increases (ii) Decreases (iii) Remain same (iv) Multiplied
15. Capacity of capacitors in Parallel.....
(i) Increases (ii) Decreases (iii) Remain same (iv) Multiplied
16. A Simple Diode rectify
(i) Allternative Current (ii) Direct Current (iii) Current (iv) Voltage
17. A diide has
(i) One pn Junction (ii) Two Pn Junctions
(iii) Three Pn Junction (iv) None of these
18. A diode has.....for ward resistance of the order of
(i) K Ω (ii) Ω (ii) M Ω (ii) None of above
19. If the arrow of a diode symbol is positive with Respect to bar, then diode is.....biased
(i) Forward (ii) Reverse (iii) either for ward or reverse (iv) Non of above
20. A Diode is used as
(i) An amplifier (ii) A rectifier (iii) An oscillator (iv) Voltage regulator
21. The leakage current in a diode is due to
(i) Minority Carriers (ii) Majoraty Carriers (iii) Junction Capacitence (iv) None of the abve
22. A Transistor has.....
(i) One pn Junction (ii) Two Pn Junctions
(iii) Three Pn Junction (iv) None of these
23. Number of depletion layers in a Transistor is.....
(i) Four (ii) Three (iii) One (iv) Two
24. The base of a Transistor isdoped
(i) Heavily (ii) Moderately (iii) Lightly (iv) None of the above

