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Trade : Electrical, Computer, Eltx.

Subject : FEEE/Fundamentals of Electrical & Electronics Engg

Time : 3 Hrs. M.M. 60

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

Q.1 Tell the unit of flux density. (CO-6)

Q.2 In lead acid cell, +ve plate is ..... (CO-10)

Q.3 Show tell the time period of sinusoidal wave at standard frequency in India. (CO-7)

Q.4 In a.c. circuits product of voltage and current is known as ..... (CO-7)

Q.5 Tell the unit of capacitive reactance. (CO-7)

Q.6 The emitter is ..... doped. (CO-8)

Q.7 If the operating point in transistor changes, it results into..... (CO-11)

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Q.8 In JFET drain current will be maximum when vgs is ..... (CO-13)

Q.9 Core of a transformer is generally made of ..... (CO-14)

Q.10 In a 4 pole wave wound armature of d.c machine, the number of parallel paths will be equal to ..... (CO-14)

SECTION-B

Note: Very short answer type questions. Attempt any five questions out of seven questions. 5x2=10

Q.11 Define permeability. (CO-6)

Q.12 State Peak factor of an alternating quantity. (CO-7)

Q.13 Define impedance of an electric circuit. (CO-7)

Q.14 Describe PNP transistor. (CO-8)

Q.15 State faithful amplification. (CO-9)

Q.16 Define solar cell. (CO-10)

Q.17 Define transformation ratio of transformer. (CO-14)

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SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. 6x4=24

Q.18 State Faraday's Laws of electromagnetic induction. (CO-6)

Q.19 Distinguish between primary and secondary cells. (CO-10)

Q.20 Define the terms RMS value and average value of a sinusoidal wave. (CO-7)

Q.21 Define power factor in A.C. circuits. State atleast two disadvantages of low power factor. (CO-7)

Q.22 Tell the function of Emitter, Base and Collector in the operation of a junction transistor. (CO-8)

Q.23 State the importance of transistor biasing. Name the different methods used for transistor biasing. **(CO-11)**

Q.24 Compare JFET and Bipolar Transistor. **(CO-13)**

Q.25 Draw N-Ia and T-Ia Characteristics of a d.c. shunt motor. **(CO-14)**

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SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. 2x8=16

Q.26 Summarize the care and maintenance of lead acid batteries. (CO-10)

Q.27 Derive the equation of current when alternating voltage is applied to resistance and capacitance in series (R-C series circuit) (CO-6)

Q.28 Name various parts of a d.c. motor. (CO-14)

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