ANNA UNIVERSITY COIMBATORE
PART - B
B.E./B.TECH. DEGREE EXAMINATIONS: MAY / JUNE 2010

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\text { REGULATIONS : } 2007
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## FOURTH SEMESTER: ECE

## 070290045 - ELECTRONIC CIRCUITS II

TIME : 3 Hours
PART - A
Max.Marks : 100
(20 x $2=40$ MARKS $)$

## ANSWER ALL QUESTIONS

Define eddy current loss
What are the uses of transformers?
What is percentage tilt?
What is storage delay?
What is meant by multivibrator?
PART - B

ANSWER ANV FIVE OUESTIONS

21. a Explain in detail about the MOS differential amplifier
b Discuss the frequency response of differential amplifier
22. a List out the properties of feedback
b Explain the output impedance of negative feedback
23. a Analysis the feedback topologies for voltage series with corresponding 6 diagram?
b Derive the expression for Hartley oscillator, with a neat circuit diagram
24. a Derive the expression for $R C$ phase shift oscillator
b Design and analyze a single tuned amplifier, with a neat circuit diagram
25. a Explain the class $C$ tuned amplifier, with a neat circuit diagram
b Describe about the unloaded $Q$ factor
26. a Design and derive expression for Wien bridge oscillator, with a neat circuit 6 diagram
b Discuss in detail about Colpitts oscillator
$2^{7}$ a Expisinthe workng $0^{\prime}$ a Sonmit trigger, with a neat arcu: Nagrem
b Draw the circuit and derive any two of the low pass RC circuits
28. a Explain the working of a astable multivibrator.
b Draw the circuits and explain about the clippers and clampers, with a neat 6 circuit diagram

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