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B.Tech.(EIE) (2011 & Onwards) (Sem.-4) ANALOG ELECTRONICS/APPLIED ELECTRONICS

Subject Code: EC-202 M.Code: 57510

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1) Write briefly:
 - A) Explain Miller effect.
 - B) Can Zener diode act as voltage regulator?
 - C) Define transistors. Explain the early effects in transistor.
 - D) Explain gain margin.
 - E) Describe multi stage amplifier.
 - F) Define PIV of diode in a rectifier circuits.
 - G) Explain why two transistors are used in Wein bridge oscillator?
 - H) What is Hartley oscillator?
 - I) Explain the T model of a bipolar transistor.
 - J) What is negative bandwidth in an amplifier?



SECTION-B

- Q2 Explain RC phase shift oscillator and its output frequency of oscillation.
- Q3 How cross over distortion be minimized. Explain?
- Q4 Explain the components of current in an NPN transistor.
- Q5 Elaborate class B push- pull amplifier and sketch its circuits.
- Q6 Describe the effect of negative feedback on the bandwidth and distortion in an amplifier.

SECTION-C

- Describe tuned amplifier. Its merits and applications. Q7
- Q8 Explain sustained oscillation in LC oscillator.
- Q9 Write a short note on:
- www.FirstRanker.com A) Hybrid pi CE transistor model
 - B) Oscillator
 - C) Amplifier

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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