

II. (1). Explain the working of potential divider biasing circuit (Revision-2010) I. (1) State the term "frequency response" [Maximum marks: 100] TED (10) 3058 (3).State Barkhausen criterion for oscillation (2). Show the relation between resonance frequency, "Q" and band width. (5). Give two characteristic of Emitter Follower (4). Give two application of mono stable multivibrator (4) State the importance of heat sinks and heat dissipation in power amplifiers (3) Distinguish between the voltage amplifier and power amplifier (2). Identify the need of multistage amplifier (6). Explain the operation of crystal oscillator. (5) Derive the expression for gain of negative feedback Amplifier (7). Explain the working of RC differentiating circuit. MANAGEMENT/COMMERCIAL PRACTICE OCTOBER/NOVEMBER-2019 (Answer all questions in one or two sentences, Each question carries 2 marks) (Answer any five of the following questions, Each question carries six marks) DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ (Answer one question from each unit. Each question carries 15 marks) ELECTRONIC CIRCUITS [Maximum marks: 10] N19-05071 [Maximum marks: 30] [Maximum marks: 60] PART - APART-C Signature Reg.No (Time: 3 Hours) $(5 \times 2 = 10)$ (5 x 6=30)

IV. (a). With diagram explain the working of transformer coupled amplifier (b). Explain the need for stabilization of operating point

UNIT-II

V. (a). Explain the different between series and parallel resonance circuit (b) Explain the operation of class B push pull power amplifier using output transformer

(9)

(6)

OR

VI. (a). Explain with circuit the operation and frequency response of single tuned amplifier.

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(b). Explain the operation of a single ended power amplifier circuits. UNIT-III

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(7)

8

(2)

VII. (a). Describe the working of RC phase shift oscillator (b). Explain the working of Hartley oscillator

OR

VIII. (a). Draw the four types of negative feedback in amplifiers. IX. (a). Describe the operation of Schmitt trigger circuit. (b). With diagram explain the working of colpitt's oscillator. UNIT-IV

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(b). Explain the working of N channel JFET with figure

(7)

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X (a) Explain the construction of Depletion type N channel MOSFET

(b). Explain the operation of astable multivibrator using transistor.

OR

III. (a). With the help of circuit explain the working of RC coupled Amplifier

(3)

(b) Explain DC Load line.

(6)

(9)