Reg. No. : | | | | | | | | | | |

Question Paper Code: 43404

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Third Semester

Electronics and Communication Engineering

14UEC304 - ELECTRONIC CIRCUITS

(Regulation 2014)

Duration: 1:45 hour   Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Give the advantages of self-biasing.

2. Draw the circuit diagram of emitter coupled differential amplifier

3. What is a multistage amplifiers? Discuss the low frequency response of an amplifier.

4. Draw a voltage series feedback circuit and mention its significance.

5. What is meant by heat sink?

6. Give the expression for higher cutoff frequency of multistage amplifier.

7. What is meant by cross over distortion?

8. Compare voltage amplifiers and power amplifiers.

9. What are the advantages of negative feedback?

10. List the two advantages of negative feedback.

11. Draw the high frequency equivalent circuit of FETs.

12. What is meant by cross over distortion?

13. List the applications of MOSFET power amplifier?

14. What do you mean by tuned amplifiers?

15. Define Sensitivity

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Explain the working principle of biasing of MOFET and its applications

(10)

17. Explain the D.C analysis of emitter coupled differential amplifier with a diagram having resistive load. (10)

18. Sketch the high frequency hybrid π model for a transistor in CE configuration and explain the significance of each component. (10)

19. State the different types of distortion occurs in a amplifier and explain them. (10)

20. Explain the working of large signal tuned amplifier with input and output waveforms. . (10)

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