

No. of Printed Pages : 4

Roll No.

181031/171031/
121031/31031

3rd Sem. / Electronics & Communication Engg.

Subject : Electronic Devices & Circuits /

Analog Eltx. - II

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

(Course Outcome/CO)

Q.1 RC Coupling is used for _____ amplification. (CO-304.1)

Q.2 The last stage of audio amplifier is called as _____ (CO-304.1)

Q.3 Class _____ power amplifier has highest collector efficiency. (CO-304.1)

Q.4 The negative feedback in amplifier increase _____ of its voltage gain. (CO-304.2)

Q.5 In a transistor oscillator, the active device is _____. (CO-304.2)

Q.6 Emitter follower is used for _____. (CO-304.2)

Q.7 Q factor of coil is _____. (CO-304.3)

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Q.8 IC 555 timer has _____ Number of pin (CO-304.3)

Q.9 An ideal Op-Amp has _____ Input impedance. (CO-304.4)

Q.10 The output of 7805 IC and 7905 IC voltage regulator is _____ & _____ volt respectively. (CO-304.4)

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts out of twelve. 10x2=20

Q.11 Why the gain of amplifier is calculated in decibels? (CO-304.1)

Q.12 What do you mean by frequency response curve? (CO-304.1)

Q.13 What is the overall gain of multistage amplifier? (CO-304.1)

Q.14 List two advantages and disadvantages of push pull amplifier? (CO-304.1)

Q.15 What are the advantages of feedback amplifier? (CO-304.2)

Q.16 What is difference between oscillator and alternator? (CO-304.2)

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- Q.17 Draw the block diagram of an oscillator?
(CO-304.2)
- Q.18 Why RLC parallel circuit at resonance is also called as rejector circuit. (CO-304.2)
- Q.19 What is a clipping circuit? And also name its type. (CO-304.3)
- Q.20 What is an A-stable multi-vibrator? (CO-304.3)
- Q.21 Define slew rate. (CO-304.4)
- Q.22 How Op-Amp is used as inverting amplifier? (CO-304.4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Give the classification of amplifier depending upon various factors. (CO-304.1)
- Q.24 What are the advantages of push pull amplifier? (CO-304.1)
- Q.25 What is input offset voltage of an op-amp? (CO-304.4)
- Q.26 Describe working of emitter follower and its application. (CO-304.2)
- Q.27 Explain piezoelectric effect. (CO-304.2)

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- Q.28 What is the condition for resonance in tuned amplifier? (CO-304.2)
- Q.29 How can we use op-amp as integrator? (CO-304.4)
- Q.30 Draw and explain the block diagram of IC 555 timer. (CO-304.3)
- Q.31 Explain the working of fixed voltage regulator IC 7805. (CO-304.3)
- Q.32 What are the applications of UPS? (CO-304.4)

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four. (3x10=30)

- Q.33 Explain working of SMPS with circuit diagram (CO-304.4)
- Q.34 What is clipping? Explain its types. (CO-304.3)
- Q.35 Explain with the help of diagram working of Wein bridge amplifier. (CO-304.2)
- Q.36 Explain push pull amplifier with diagram and why it is called push pull? (CO-304.1)

(**Note:** Course outcome/CO is for office use only)

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