312314 - Basic Electronics (Sem II)

As per MSBTE's K Scheme

AO/ DE/ EJ/ ET/ EX/ IC/ IE/ IS/ MU/ TE

Unit III	BJT Amplifiers	Marks - 16

S. N.	MSBTE Board Asked Questions	Exam Year	Marks
1.	State the reason for flat frequency response in mid frequency range of single stage common emitter amplifier.	W-2023	2M
2.	State the applications of transformer coupled amplifier	W-2023	2M
3.	State the classification of amplifiers on the basis of (i) I/P applied (ii) Frequency range (iii) Number of stages (iv) Type of coupling.	W-2023	4M
4.	Compare RC coupled, transformer coupled, direct coupled amplifiers on the basis of (i) Type of coupling (ii) Frequency response (iii) Gain (iv) Application	W-2023	4M
5.	Describe the effect of coupling and bypass capacitors and transistor internal capacitance on frequency response of single stage CE amplifier	W-2023	4M
6.	Compare RC coupled ,transformer coupled and direct Coupled amplifier	W-2023	4M

7.	Draw the circuit diagram of RC coupled transistor two stage amplifier and explain its working with its frequency response	W-2023	6M
8.	State the reason for flat frequency response in mid frequency range of single stage common emitter amplifier.	W-2023	2M
9.	State the applications of transformer coupled amplifier	W-2023	2M
10.	State the classification of amplifiers on the basis of (i) I/P applied (ii) Frequency range (iii) Number of stages (iv) Type of coupling.	W-2023	4M
11.	Compare RC coupled, transformer coupled, direct coupled amplifiers on the basis of (i) Type of coupling (ii) Frequency response (iii) Gain (iv) Application	S-2022	4M
12.	Define the following amplifier characteristics 1 voltage gain 2 current gain	S-2022	4M
13.	Define Amplification	S-2022	2M
14.	Derive an expression for overall voltage gain of two stage cascaded amplfier.Draw circuit diagram of two stage RC Coupled amplifier .Overall voltage gain of two stage amplifier is 100.if gain of individual stages is identical.Find the gain of individual stages	S-2022	6M
15.	Draw the diagram of single stage CE Amplifier	S-2022	2M
16.	List any four applications of RC coupled amplifier	W-2018	2M
17.	Explain with the help of waveforms, the working principle of single stage CE amplifier.	W-2018	6M

18.	State classification of Amplifiers.	W-2018	2M
19.	State the need of multistage amplifier.	S-2018	2M
20.	Sketch circuit diagram of RC coupled single stage CE amplifier. State the function of each component.	S-2018	4M
21.	Compare RC coupled, transformer coupled, direct Coupled amplifier on the basis of: Type of coupling Frequency response Gain Application	S-2018	6M
22.	Define Amplifier. Define the term voltage gain.	W-2022	2M
23.	State advantages and disadvantages of transformer coupled	W-2022	2M
24.	Define Amplifier.Define the term voltage gain	W-2022	2M
25.	Explain the working principle of single stage CE amplifier with the help of waveform	W-2022	4M
26.	Draw the circuit Diagram of transistor as a amplifier	W-2022	2M
27.	Draw the two stage BJT Amplifier state the formula for over all gain of this amplifier	W-2022	4M
28.	Draw the two stage BJT amplifier. State the formula for the overall gain of this amplifier	W-2019	4M
29.	List the types of coupling used in BJT amplifier	W-2019	2M
30.	State the classification of the amplifier	W-2019	2M
31.	Sketch the circuit of RC coupled single stage CE amplifier state the function of each component	W-2019	4M
32.	State the need of multistage amplifier	W-2019	2M

33.	Explain the working principle of single stage CE amplifier with help of waveform.	S-2023	4M
34.	Draw a neat la belled diagram of a two stage RC coupled amplifier. Draw its frequency response. State its two advantages	S-2023	4M
35.	Describe effect of coupling and bi-pass capacitor and transistor internal capacitance on frequency response of single stage CE amplifier	S-2023	4M
36.	Compare RC coupled Transformer coupled and Direct coupled amplifier	S-2023	4M
37.	Define the following amplifier characteristics 1 voltage gain 2 current gain	S-2023	4M

Thank You

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