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FY DIPLOMA VIMP QUESTIONS BEC

2 Marks Questions

1. List any four specifications of resistors.

- 2. List the types of signals.
- 3. Write two applications of P-N junction diode

4. Draw constructional diagram of piezoelectric transducer. (Note: Any other suitable diagram shall be considered for awarding marks)

5.Draw symbol of photodiode.

6.Draw the symbols of resistor & capacitor. State the unit of measurement of resistance & capacitor. 7.Define α and β of transistor. (V.V.imp)

- 8. Give two points of distinction between active & passive transducers.
- 9.Draw the symbol of N-channel and P-channel MOSFET.
- 10. Give different types of IC's
- 11. Define analog transducer.

4 Marks Questions

- 1. Color code for resisters.
- 2. Draw and explain reverse biased V-I characteristic of a zener diode. (V imp)
- 3. Draw and describe working principle of LED. (V imp)
- 4. Explain the construction of N-P-N transistor with diagram.
- 5. Draw and describe working of resistive transducer. (V imp)
- 6. Draw the construction and explain the operation of N-channel JRET. (V imp)
- 7. Give 4 difference between analog and digital circuits. (V imp)

8. Sketch the block diagram of regulated power supply. Draw the waveforms at th output of each block. (V imp)

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- 9. Draw the construction of MOSFET and explain working.
- 10. Explain:- 1) seeback effect, 2) peltier effect. (V imp)
- 11. Draw centre tap full wave rectifier and explain its operation. (V imp)
- 12. State difficult types of electrical signals and draw all types of waveforms. (V imp)
- 13. Define PIV, TUF, nipple factor, efficiency of rectifier.
- 14. Draw V-I characteristics of P-N junction diode and explain it. (V imp)
- 15. Compare CB, CE CC configurations of BJI. (V imp)
- 16. Describe strain guage with diagram (V imp)

17. Draw Circuit diagram of single- stage RC coupled CE amplifier and describe with help of input and output waveforms. (V imp)

18. Describe LVDT with diagram. (V imp)

19. Draw diagram of bridge rectifier. Draw input output waveforms and describe it's operation. (V imp)

20. Draw block diagram of regulated power supply. Explain function of each block and draw waveforms of each stage.

6 Marks questions

1. Distinguish between CB, CC, CE (four points) Explain why CE configuration is the most preferred combination. **(V imp)**

2. Draw diagrams showing depletion regions before and pinch-off for N-channel JFET. (V imp)

3. With the help of N- channel JFET, describe the effect of input voltage VGS on the output current ID. (V imp)

4. Compare :- 1)Active and passive transducer , 2) Analalog and digital Transducer. (V imp)

- 5. Explain working principle of phototransitor and photodiode with neat sketches. (V imp)
- 6. Draw drain characteristics and transducer and transfer characteristic of JFET. (V imp)

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