Question Bank (G scheme)

Name of subject: Electrical & Electronics Unit Test :II
Subject code:17424 Course : SYCH

Semester: IV

Section I Electrical

CHAPTER 3 AC motor (08 marks)

3marks Questions:

- 1. State the working principle of 3 phase induction motor and write its main parts.
- 2. Why single phase induction motors are not self-starting and give one application of each type of single phase induction motor.

4 marksQuestions:

- 3. Compare squirrel cage and slip-ring type induction motor.
- 4. Describe R-split single phase induction motor with diagram.
- 5. Describe capacitor run single phase induction motor with diagram.

CHAPTER 5Electrical wiring and safety (12 marks)

3marks Questions:

- 6. What is earthing? Why is it necessary?
- 7. State the necessity of fuse. Classify fuse and wires.

4 marksQuestions:

- 8.State the meaning of ELCB and MCCB. List out their applications.
- 9. What are the safety precautions to be taken while working with electrical equipments?
- 10. Draw construction of sodium vapour lamp and write its applications.

Section II Electronics

CHAPTER 2Bipolar Junction Transistor (08marks)

3marks Questions:

- 11.Draw the constructional diagram of PNP transistor and name the regions and terminals.
- 12. What is power amplifier and state its types.

4 marksQuestions:

- 13.Describe the operation of NPN transistor with diagram.
- 14.Draw single stage CE amplifier and write function of each component.
- 15. Write four applications of transistor. Draw symbol of NPN and PNP transistor.

CHAPTER 3 Power Supply (12 marks)

3marks Questions:

- 16. Give comparison between half wave and full wave center tappedrectifiers.
- 17. What is the need of filter and regulator? State types of filter.
- 18. Draw π filter, shunt capacitor filter and LC filter.

4 marksQuestions:

- 19. Draw block diagram of DC regulated power supply and write function of each block.
- 20.Describe working of zener voltage regulator with diagram.
- 21. Describe working of full wave bridge rectifier with input and output waveform.

Chapter 04 DC Circuits (10 marks)

4 marksQuestions:

- 22. List the types of digital display and Compare LED with LCD.
- 23. Write demorgan's theorems and prove any one.
- 24. Which gates are called as universal gate? Draw basic gates using any one universal gate.
- 25. Draw symbol and write truth table for following gates: AND, OR, NOT, NAND, NOR, EX-OR