

- P.T.O

- b) Define. 3+7
- i) Lower cutoff frequency.
 - ii) Higher cutoff frequency.
 - iii) Bandwidth.
- Derive the voltage gain in low frequency range using h- parameters in RC coupled amplifier.

5. Attempt **any ten** of the following.

- a) Draw the circuit Symbol of Schottky diode and Zener diode. 1
- b) Define static resistance in diode. 1
- c) Write Diode equation. 1
- d) State any two advantages of full wave center tap rectifier. 1
- e) Define ripple factor. 1
- f) Define reverse saturation current. 1
- g) Define thermal runaway. 1
- h) If $\alpha = 0.98$ then find β . 1
- i) Define Q-point. 1
- j) Write any two h- parameters for CB configuration. 1
- k) What is two port network? 1
- l) Draw the hybrid equivalent circuit diagram of CB- configuration. 1
