Franchetor Suggestiont why is a transistor so called? 2) Explain with diagram the different components in a transistor 3 Define the terms i Emitter injection Statio is Base transport factor. Hence derive the orelation ship betw een the coment gain in Common emitter (CE) and CB mode (i.e. Ban 2 2). 1 Explain early effect in a transistor 3 Compare CE and CB and CC Configuration 1 write short note on transistor as a Switch.

Dwhat is the need for biasing, (8) what are the sleasons for ship of a-point? (9) Develop the 4-parameter mode of a transistom, why is it called the small signal equivalent made (10) Denne Expression for stability factor & winit Io in self blasso Forton & winit Io in self blasso Voltage dividen configuration (i) Pind expression for voltage gain corrent gain, input impedence and output impedence in terms of H-parameters. (12) Explain physically how (a) collector to Base Bras the 3 trude softward ((6) Seif Bias achieur stability

(3) Explain what happens if the collector sessistance in a Common emitter circuit is increased indefinitely (transistor)