Ind Year Ag.

COMPUTER ARCHITECTURE & ORGANISATION

Computer Organization and architecture is the study of unternal Computer Organization and architecture is the study of unternal Computer Organization and implementation of computer repter unterconnection that mealike the aerchitectural specification

- memory technology and.

Computer nowifesture erefer those attributes of a system that how a derical ampact on the dogical execution of magram.

In of but used to represent various data

Que-2 Discus leus abertation m detail 4.

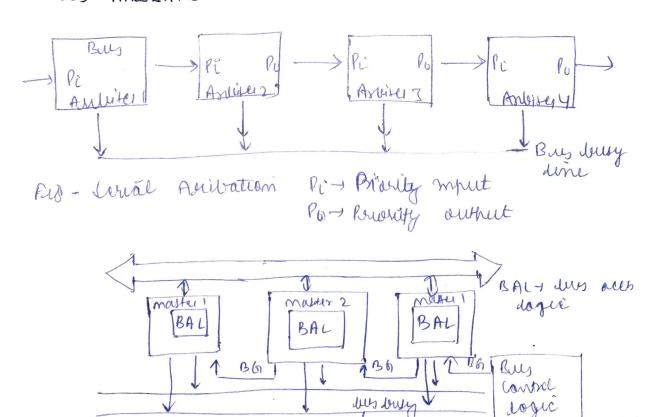
In abote anibation process service all Processor request of the basic tridrity in noundway her priduity meally the technique which can establish by requesting rontral rigidal bus acirbetteen to process for exposultedgement of priority the appearance who and processor on heripheral during.

There are two type of Bus.

(a) centralised as serial Arribation.

(b) Dustralimed as Parallel Assibution

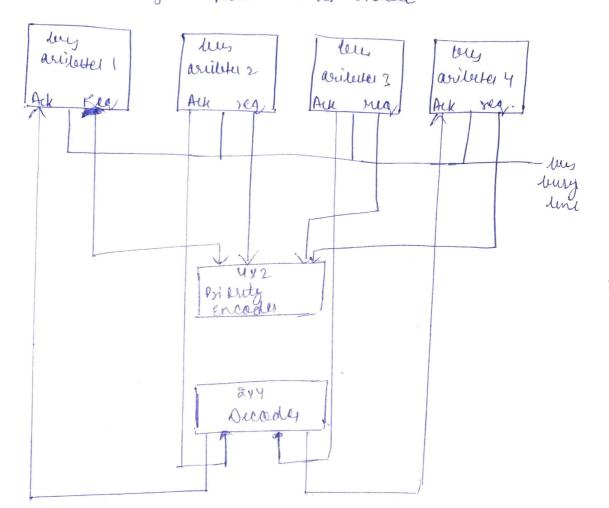
## CENTRALISED ARTRATION:



ine above dia, show the social aribation, also ralled daily chain nethod. In the diagram, there are four mocessos p, p2, B2 6 14 is social for every brocessor. Method to explan less the Briefies briefly in fraid for every brocessor. Method are 2 types of signer briefly in and p4 has lowest briority. There are 2 types of signer briefly every brocessor.

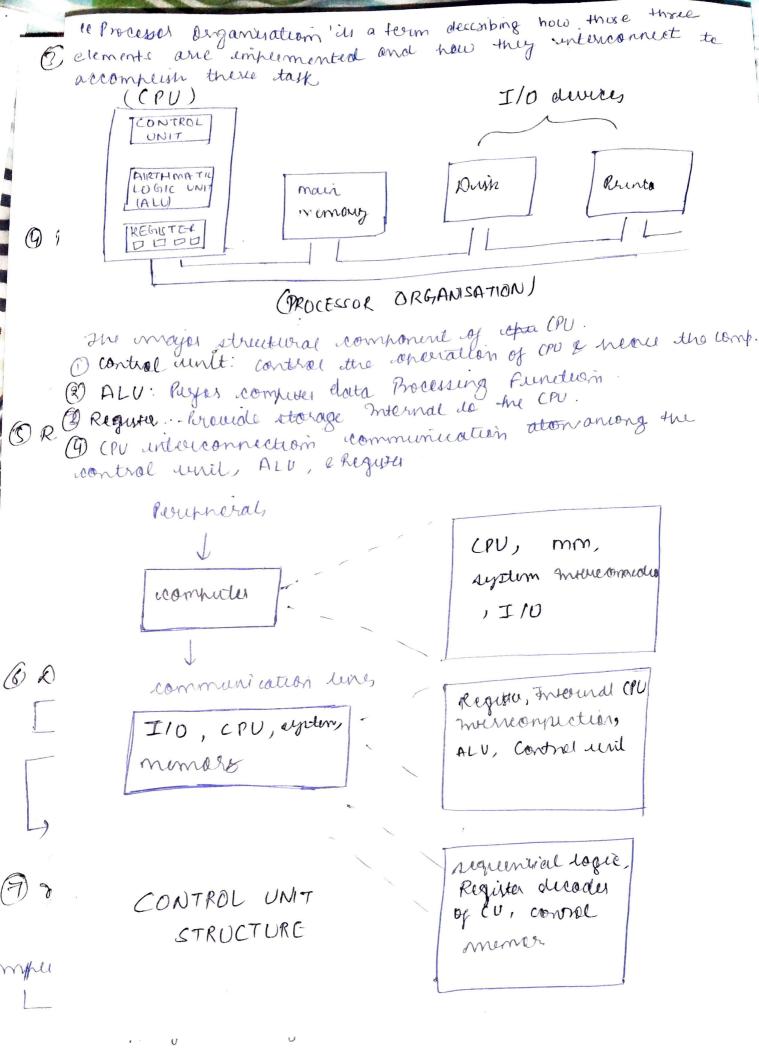
Pi and Po, Pic for in connected to logic and Po for each processes is connected to the Pi for swotner Processes.

PARALIFE ARTBATION: In howalled him wileation technique due an external method encode and docoder (Pribrity decoder) each buy aribets in the Parallel scheme has a due request outher uni end euro acknowledge applit line. Each aribets endoles the trequest line when its Processor is requesting acon to the system deus me Processor dake control of the duy cif its acknowledge inplit line is endlede

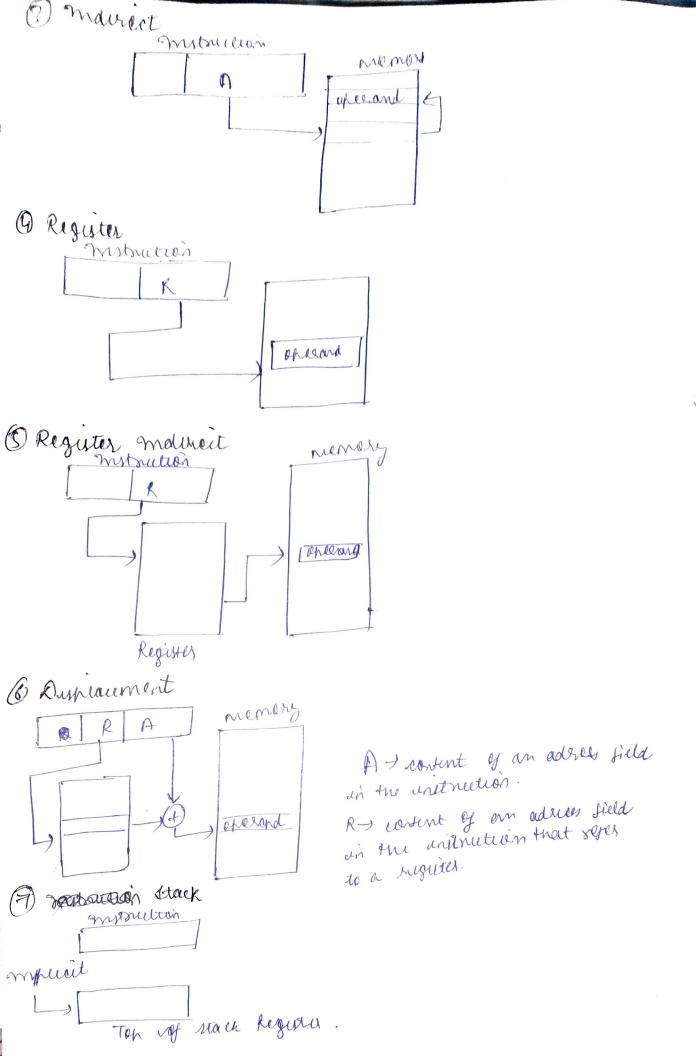


Our? Explain Processed Organizations.

A processed smust nowe three functional unit to be what we call a computer. A unit that herform All Operation on data. A unit that which remembes the data. (memory). A unit which sequence the Operation by All (control unit)



Que's what is stack & now regides and organized way stack. stack is a storage structure that store the unjo is (LIFA) way that the tit dost ight stored retrive fruit (LIEO) It is useful feature included in CPU Item stored first is the dast to he retrieve Titus operations num (anteswet to stalk) and hop ( delete from stock). Register that hold the adress of the stack called stock Pointer (59) full = 9 Empty =-1 when stack is Hack when stack dimit full value in miny IN USE 1 fuel [ empty] Hell augan: Free -salion In register stack are enjoint the light 10,20,30 and the unitial under of stack is enjoy, in reguler stock it store the regeries ac except initial box of stack se alway empty Put unat is adressing modes explain dyvent type, mit diagram. The different sound of ways, the Programmes can refer to data stored in memory is known as adressing mode. most common addressing modes are: -1) Immediate mitnuetion operand Direct metrution



(156 x 25) + [20 x (25+20))

TOS + 156 Push 156 TOS 6 28 Push 25 TO SE 156x 25 = 2900 MUL PUSH 30 TOS ( 30 Push 25 TOSE 35 Rush 20 TUC 6- 25 Ada TOS 455 TOCK \$5x30 = 1650 mul Add TOSE 1650+3900

Any = \$550