GroupA

1.(B) Write update protocol

2.(c) the polority i output line (i.e polority 1+1 input line) is passive 8.(c) activates its output grant line, enabling the next master to use the bus

7. (a) the bus request line is conamon

S. (a) switching notwork

B. (b) shared

7. (b) distributed memory systems

8. (a) shared momory systems

9. (b) cyele-12

10. (d) cycle -15

11.(c) cyclo -21

12. (d) Common data bus

13. (b) a record of two fundamental unit that coil generate the operand(s) is kept in the reversalism Station.

14.(c) BBDDADDUI and BNE

15 (a) schoduling

16 (b) yde-05

17(b) cycle-6

18 (d) aŭ of mabore

1.56 19(9)

20 (b) WAR

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Line.	Instruction	Description									
1	\$1 52+53	Add SQ and SQ and Store the rountines									
2	\$1 \$2+53	Add 52 and 53 and 540se the result in 51									
3	72+12 22	Ald St and St and stone the court in a									
4	S1 54+\$5	Ald S9 and Store the repultin S1									

As shown in the Gantt Chant, the sequence of instructions take It clock cycles to execute. The second inchorchon connectissue until first instruction completes because 31 has already been regarded by first instruction. Similarly instruction 3 cannot issue until instruction 2 completes be course 51 has been been reserved. However, instruction 4 can issue on the clock cycle of ter instruction 8 issues because 51 is not reserved by instruction3.

		-										V	1	
Instruction		1	2	3	4	5	6	7	8	10	-	1	7	
	1	1	E	E	£	_		1	10	19	0	1	2	3
	2				1	E	E	E	-	-	-	-	+	-
	3						-	1	£		-	-	_	-
	4					_		'-	=	E	E		<u> </u>	-
		4	2	3	A	2	_		,	E	E	E		
	-	-			7	2	6	7	8	9	10	11		