DIGITAL ASSIGNMENT

Reg No: 18BCE 0975 HAME: ROSHAN JOHN

F1951 Fit

P2	14	P,	-37
	4	P2	- 3
	8	P3	- 22
P3 P1	11	Pe	- 29
Pi	14	P 5	- 54
		PL	- 49

Best Fit

1NORSH Fit

No a entales = (vistual addless space size) / (page size)

There are 2 = 2 = 2 entries in page table No & bits to addless the 64 MB memory = 26

- =, 2²⁶⁻¹² 2 2¹⁴ page beames in physical memory
- lach page table entry will contain 14 bits
 since memory is byte addlessable each page table entry is 16 bits Size of page table. It all noof pages \times size of page table $= 2^{20} \times 2 = 2 \frac{\text{MB}}{2}$

a) Pearus & bade 1 10 1

7 x 1024 = 7168

abla adding obset: 7168185 7253

b) Using the same procedule

beame of page 3 is 3

3×1024 = 3072

adding Obset = 30721555 = 3627

68ame a page 3 is 3

3×1024=3072

adding obset - 3072

Since Obset is early whan page size

adolless is 1024

4. 1024 worlds contain 210 bits

The logical addless space is 32 = 25

a) logical addless = 10.15 = 15

b) poglysical beames as = 16 = 24

Physical addless = 4110 = 14 bits long

a) Page table size = 64 enlares = 2

Page humlus 7 bits

- Page 5139 = 512

 Total pages 64

 Total physical memory 64 * 512 = 2

 Therefore 9654 5 bits
 - Page number birts + Obset birts 715 = 12 birts
 - d) Logical address space = 212 4K
- 513e of Ram/page size: invested page table entries
 - = 256 x 1024 = 65536 entries
- 7. Physical Addless = Storting addless + Obbset
 - 9. 198 × 2848

 Physical add: 600 1198: 798
 - b. 166 % 198 P.A = 222+156=379
 - C. 5007198 Segmentation banet
 - d. 2222 249

 P.A = 660 600 + 222 = 822

8. Effective access time = hit ratio & time during hit + miss ratio

TLB = 15 hs

Memory time = 150 ms

HH 80110 = 75%.

E.A1 = 0.75 x 165 + 0.25 x 6315 = 202.5 hs

has lace not been blought into main memory takes peace The OS varifies memory areas, aborting program 16 invalid if its valid a feel beame is located and IID is lequested to read the needed page into the feel beame upon completion of IIO, the process table and page table are updated and the instructions restarted.

6.

C .

0-6000