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B.E. (Computer Science Engineering) Fourth Semester (C.B.S.)

Operating System

NRJ/KW/17/4435 P. Pages: 2

Time: Three Hours Max. Marks: 80

as indicated.
as indicated

- Solve Question 1 OR Questions No. 2. 2.
- Solve Question 3 OR Questions No. 4. 3.
- 4. Solve Question 5 OR Questions No. 6.
- 5. Solve Question 7 OR Questions No. 8.
- Solve Question 9 OR Questions No. 10. 6.
- Solve Question 11 OR Questions No. 12. 7.
- 8. Assume suitable data whenever necessary.
- 9. Illustrate your answers whenever necessary with the help of neat sketches.

1.	a)	Explain how multiprogramming OS is differ from batch OS?	6
_	b)	Explain different types of kernel.	7

Explain different types of kernel. b)

2.	a)	Enlist and explain different events in OS?	6
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- Differentiate between Application software & system software? b)
- Write short note on time sharing OS? c)
- Explain different types of files created in OS? 3. a)
- b) Explain different file access methods?
 - Write short note on contiguous allocation? c)

OR

4.	a)	Explain various directory structures in operating system?	8
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Explain different attributes of file? b)

5. Write a short note on scheduling Queue? a)

Consider the following set of processes. b)

Process	Burst time	Arrival time
p_0	3	0
p_1	5	1
p_2	2	2
p_3	5	3
\mathfrak{p}_{4}	5	4

Calculate waiting & turn around time for each algorithm.

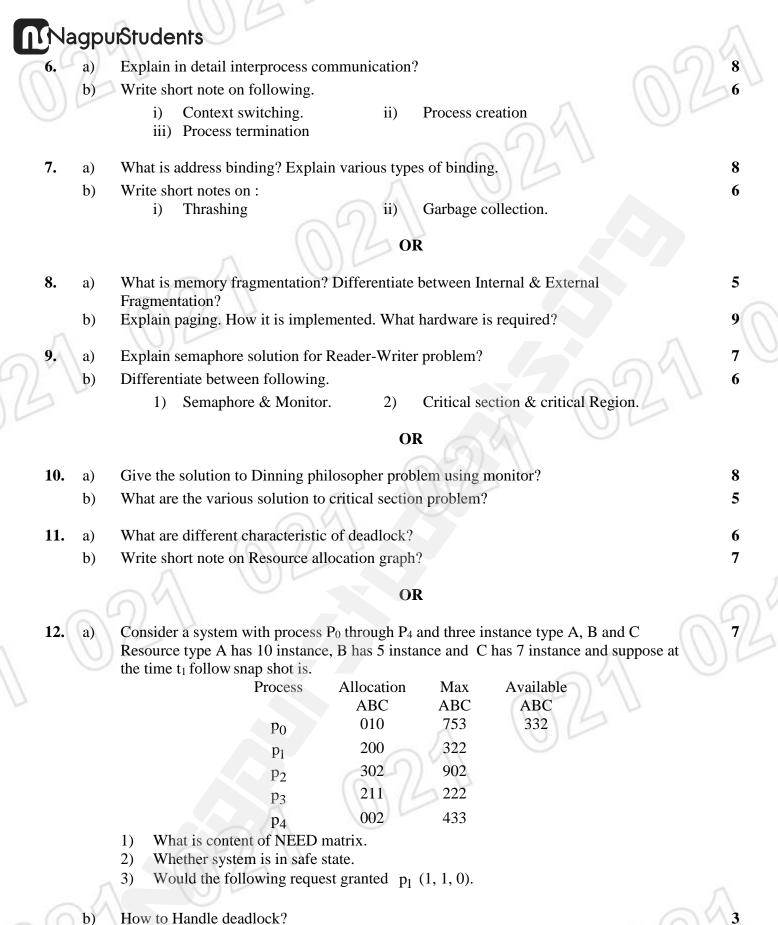
FCFS i)

ii) **SJF**

iii) RR (Slice = 2).

OR





How can you prevent deadlock by preventing circular wait condition?



c)



The best time to plant a tree was 20 years ago. The second best time is now.

~ Chinese Proverb

