

Jahangirnagar University

Department of Computer Science and Engineering

3rd Year 1st Semester B.Sc. (Hons.) Final Examination -2020

Answer Script
Total Page# 16

7

	Co	ourse Inform	nation		
Course Title:	Operating Sy	ystems			
Course Code:	CSE-301	Marks:	10	Time:	45 Minutes

Student Information										
Examination Roll No.:	1	8	0	6	4	9				
Registration No.:	4	6		2	4					
Academic Session:	2	0	1	7		2	0	1	8	
Date:	0	4	1	0	7	1 2	2 0	2	1	

Instructions

- Examinee must write his/her exam roll no. and page no. at the top of every page of the script.
- 2. Do not write your name or any identification mark anywhere of the script.
- 3. Total time for exam is 45 minutes. You will get 15 additional minutes for submission.
- 4. Delay in submission is not acceptable.
- 5. You have to submit your exam script in PDF format.
- 6. The examinee must submit the examination script through online (Google classroom/email/google form etc.) as prescribed by the examiner.
- 7. You must use your EXAM ID only for naming your submitted file.
- 8. After completing the exam, you must write the total number of pages used for the exam in the top sheet.

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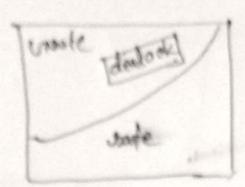
Answer to the question number 1(b):

The soystem in in a scape state at their un a nate nevuence of process. Like it their in a net of process <P1, ... Pn) week that for every Pi, the servested resource ob the pri can be nothingered by the resources available by the system.

Ensabe estate: It there was a circle among the precesses then the system no, en unesabe estate.

De addock state: It a processes in set holding a newounce and accordant to get additional suggestive that is held by another process of the set then their is deadlock.

Answer to the question number 1(b):



trecessary conduction to enter a alcollack -

- (c) medul exclusion.
- (ii) Hold and event.
- (ii) No pricempation.
- (10) circulare wait.

Auswer to the question number 1(c):

3tops of handling page baut with block detagram ?

It the subtrence us not bound in the page table then others in called page bould. There corre bew steps to handle this bound.

(1) Openations system has to determone it the sufferience un voi legal on not.

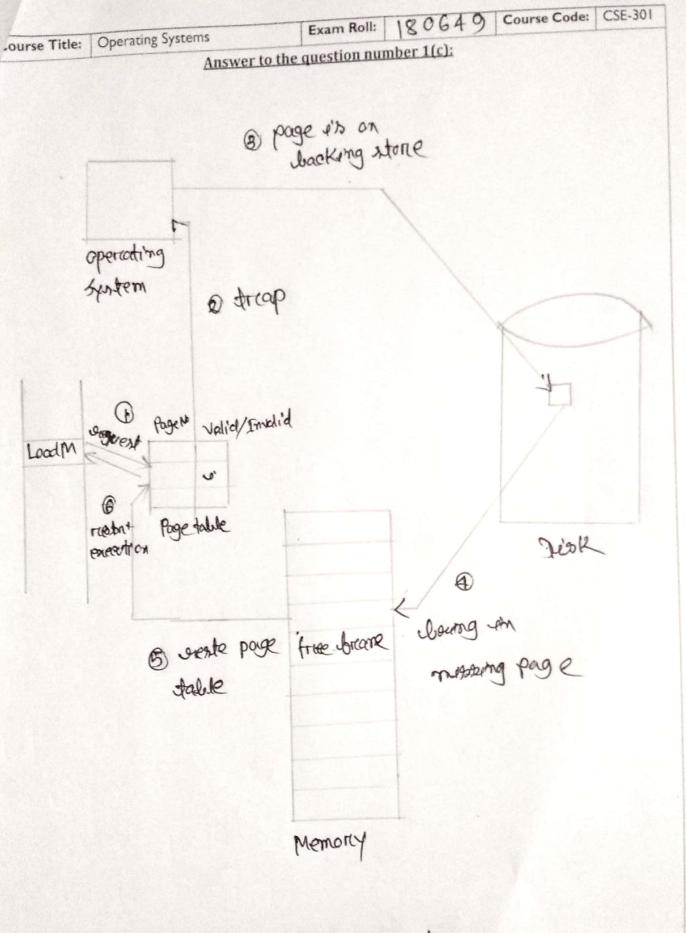
(ii) Jeb legal then? seavested page in the deesh.

(iii) Fond out a bree brame to bring out that page. It no bree brame apply page replacement algorithm to replace a place with the seeweested page.

(1) change the page and breame trable.

(d) Execute the mostruction that was belongerue.

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Fay: Block dragmam ab page Handling

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Answer to the question number 2(b): $(i \not p)$

Optimal page replacement algorithm in not preaction caus -

- (1) In their algorithm are need the priori emboremortion about the subercence
- (ii) we have to bornd out which substance well not in the buture for long amount of terme and it is disblicall to

assume.

And Ib we can't was some the determine the Sunture sinds about the page than ere can't apply this algorithm. So, this is not precedical.