

## Opsys 2021 VİZE

**1) Which parts of the program is shared among the threads.**

Code section, data section, open files

Code section, registers open files

Data section, stack, registers

Program counter, registers stack

**2) Explain the DIFFERENCE between the core dump and crash dump. (3 Puan)**

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**3) When using fork system call parent and child process have the same address space.  
(3 Puan)**

- True
- False

**4) Program code is stored in the text section of the program (3 Puan)**

- True
- False

**5) Threads share the memory and the resources of the process by default (4 Puan)**

- True
- False

**6) Binary semaphore equals to mutex variables. (3 Puan)**

- True
- False

**7) In Direct Memory Access, one interrupt is generated per byte (4 Puan)**

- True
- False

**8) CPU registers have a faster access time than any other device including CPU cache memory. (2 Puan)**

- True
- False

**9) What are the main sections in the critical section problem? 🎤 (4 Puan)**

[Text box with: Yanıtınız girin]

**10) In the case of concurrency, the execution of the threads will be interleaved over time (3 Puan)**

- True
- False

**12) The heap contains dynamically allocated memory during run time (3 Puan)**

- True
- False

**13) A trap or exception is a software-generated interrupt caused either by an error or a user request**  **(3 Puan)**

- True
- False

**14) Give an example method for implicit threading? (3 Puan)**

[Text box with: Yanıtınız girin]

**15) Operations in Message Passing architecture is faster than shared memory architectures. (4 Puan)**

- True
- False

**16) The size of a character pointer equals the size of a double-pointer in C programming.**

- True
- False

**17) Ordinary pipes need a parent-child relationship. (3 Puan)**

- True
- False

**18) Write the pseudocode for Peterson's Solution for the critical section problem (5 Puan)**

[Text box with: Yanıtınız girin]

**19) Synchronous threading does not involve data sharing among threads. (2 Puan)**

- True
- False

**20) Function parameters, return addresses, and local variables stored in a Hash data structure for processes (3 Puan)**

- True
- False

**17) Give an example method for implicit threading) (3 puan)**

[Text box with: Yanıtınız girin]

**2) When using fork system call parent and child process have the same address space. (3 Puan)**

- True
- False

**3) Considering the following code segment a) Draw the process tree. Each node should present the up to date values of the variables a,b and i b) Provide the unordered list of print outs.**

**You should upload your answer as a jpg file. Before submitting, be sure that writings and drawings are clearly presented. (Anonim olmayan soru  ) (10 Puan)**

**KOD YOKKKKK**

**4) If 20% of an application can be executed in parallel, what will be the theoretical maximum speedup? (3 Puan)**

[Text box with: Yanıtınızı girin]