,	$\left(63\right)$
	BIRZEIT UNIVERSITY (1)
	College of Engineering and Technology Computer Science Department
/	NAME:
	Q[1] (a) Select the correct answer that matches the case below:
	Multiprogramming , PCB , long Term scheduler , Medium-Term scheduling , CPU scheduling , Batch system , interactive system , time-sharing system , Real-time system
1	Similar jobs are put together to be processed — Artificial for the second second for the second
5	A dedicated application which must respond with a fixed amount of time. Be there shem
	Used by the operating system to represent processes —————————————————————————————————
/	Selects among the processes in the ready queue to execute
	Controls the degree of multiprogramming lang from schedules.
	(b) What are the two types of data structures introduced in spooling. [pool (pool guen) +ype of data Structure used to load from I/o to ready to excuse. Spool from (spool guen) type of data structure to he xt Tob winting to produce
10	Draw the diagram explaining your answer.
Adu	entenje Bil type: att two diffrent Job (
	pool (spot) will long to derig
	exemtin anther. Jab
	input input inter pu printer
	Scanned by CamScanner

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1.	Q[2] Fill in the blanks below:
3	(1) The OS acts as an - Intermidad between the running program and the bare hardware machine.
	(2) The software that interprets the machine language instructions is - Hiero programs.
	(3) In specifing the I-O of one job isexcellent
	(4) Two types of multiprocessor systems are
	and Dictorbated SXX
	(5) The table generally stored in low-memory that contains pointers to some service routines is called
	(6) The type of I/O in which after the I/O starts and control returns to the user program without waiting for the I/O to complete is called
A	(7) The OS services are provided in two basic methods,
لمم	(8) The major parts of the process are — Stack, and — Leta Section,
	(9) The number of processes in memory is called degree of talk processes in memory is called
	(10) The number of jobs that finish execution in unit of time is called the Computer
	(11) The time required for the CPU to change from one process to another is called
	12) A thread consists of:
	Contract , regionale
	(13) The thread share with its peer threads:
	Code Section, data section
	Jenure Source of OS!
	(14) The job with many short CPU bursts is called Shert term Sech le (Toboulus)
	but the job with few long CPU bursts is called
	throught, while the main disadvantage is
	0

Q[3] (a) Define a privileged instruction. Instructure runing in minta mode Just recons please interact poses in it. or privlege Int: which happen interrupt or fault in operating syst. (excuting to Which of the following is a privileged instruction? on behelf it self.). Read the computer clock non prules Set the computer clock hoprivileged Set the computer timer --- knuly. -Switch from user to monitor mode - privileg Clear memory partial g (b) (i) Define Cache memory. take Copoy d'informationer destar infaster from orginal position. Such as com register for cash for momony for Hajdlask Hemony is cash for HD (ii) Give two examples of cache in the system Memory is coush for Hard dis 10. Rigist is fester ysening faster frum Cash itself Signals Sends to cou for some requestor senu (c) (i) What is an interrupt? that's happart from handways or software. Some exaple. Divid by zero | complish to | invaled many acces | Request

(ii) What kind of interrupts the following two pieces of codes might generate. Explain. read customer-ID into B C = B / AWhile A <> 0 Do

