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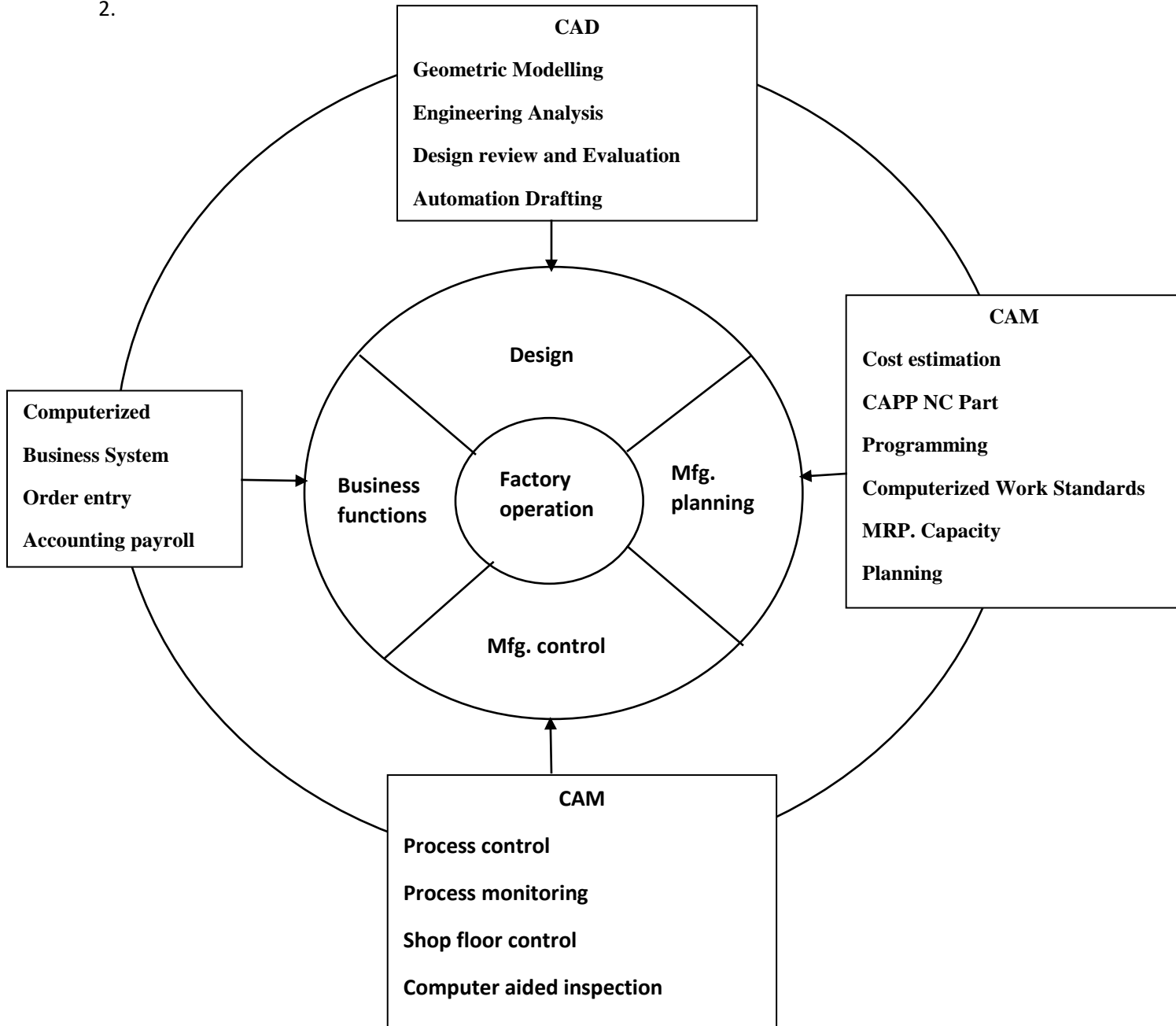
MEE 586 assignment

1. What is an integrated CAD/ CAM?
2. Draw a product cycle to describe the scope of CAD/CAM in the operation of manufacturing firm
3. Explain seven (7) characteristics of a good CAD software
4. Explain three (3) divisions of software components

Answers

1. Integrated CAD/CAM-systems are employed to achieve computer-aided integration in all production functions, from design and planning up to manufacturing and the assurance of quality standards.

2.



3. A) Efficiency: - An Efficient software is that which can use less resources such as CPU in terms of time and usage to give a better output.
- B) Simplicity: - A software must be simple to use and easy to understand and must be user friendly.
- C) Flexibility: - The software must be able to incorporate the design modification without much difficulty.

- D) Readability: - This provides the capability within the software to help the user as and when required.
- E) Portability: - The software must have the capacity to get transferred from one system to other.
- F) Reliability: - To avoid causality the software must be able to avoid unwanted operation.
- G) Recover ability: - A Good software must be able to give warnings before getting crashed and must be able to recover.

4. A) Operating System (OS)

The operating system is a type of system software kernel that sits between computer hardware and end user. It is installed first on a computer to allow devices and applications to be identified and therefore functional.

System software is the first layer of software to be loaded into memory every time a computer is powered up.

B) Device Drivers

Driver software is a type of system software which brings computer devices and peripherals to life. Drivers make it possible for all connected components and external add-ons perform their intended tasks and as directed by the OS. Without drivers, the OS would not assign any duties.

Examples of devices which require drivers:

1. Mouse
2. Keyboard
3. Soundcard
4. Display card
5. Network card
6. Printer

C) Firmware

Firmware is the operational software embedded within a flash, ROM, or EPROM memory chip for the OS to identify it. It directly manages and controls all activities of any single hardware.

