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Diploma in Pharmacy 2nd Year
Pharmacy Law & Ethics
Important Questions
Chapter 21 : Medical Devices

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Chapter 21
Medical Devices
IMPORTANT Questions

Q1. Write a brief note on Medical Devices.

Ans.

→ Medical devices are any instruments, apparatus, machines, implants, in vitro reagent or other similar articles that are intended for use in the diagnosis, treatment, or prevention of disease or other medical conditions. They may also be used to monitor a patient's vital signs or to support or sustain life.

Categorisation of Medical Devices

1. **Class I :** Low-risk devices, such as elastic bandages, surgical instruments, and examination gloves.
2. **Class II :** Moderate-risk devices, such as X-ray machines, infusion pumps, and surgical drapes.
3. **Class III :** High-risk devices, such as heart valves, implantable pacemakers, and breast implants.
4. **Class IV :** Very high-risk devices, such as deep brain stimulators and artificial pancreas systems.

Basic Aspects Related to Manufacture and Sale of Medical Devices

- **Regulatory Compliance :** Medical devices are regulated by various government agencies such as the US Food and Drug Administration (FDA), the European Medicines Agency (EMA), and the Japanese Pharmaceuticals and Medical Devices Agency (PMDA). Manufacturers of medical devices must comply with the regulations set forth by these agencies to ensure the safety and efficacy of their products.
- **Design and Development :** Medical devices must be designed and developed in a way that ensures their safety and effectiveness. This includes conducting clinical trials, performing risk assessments, and adhering to quality control standards.
- **Manufacturing :** Medical devices must be manufactured in a controlled environment that meets Good Manufacturing Practices (GMP) to ensure their quality and safety. The manufacturing process should be documented and validated to ensure consistency and reliability of the final product.
- **Labeling and Instructions for Use :** Medical devices must be labeled with clear instructions for use and warnings about potential risks. The labeling should include the name and address of the manufacturer, the intended use of the device, and any necessary precautions or warnings
- **Post-Market Surveillance :** Manufacturers of medical devices must monitor their products' performance after they have been sold to the market. This includes monitoring adverse events and taking appropriate action to address any safety concerns that arise.
- **Marketing and Sales :** Medical devices must be marketed and sold in a way that is consistent with their intended use and in compliance with regulatory requirements. Manufacturers must ensure that their marketing materials are truthful and not misleading and that their sales representatives are properly trained and educated about the products they are selling.