**Question 1**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

Which of the following acronyms best describes the morphine button?

Select one:

a.

PCA

b.

PCAB

c.

PCCA

Incorrect. PCCA stands for Professional Compounding Centers of America.

d.

USP

**Feedback**

The correct answer is: PCA

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which of the following is required on a unit dose label?

Select one:

a.

Medication name

Correct! The medication name and strength are both required to be on the manufacturer's unit dose labeling.

b.

Pharmacy name

c.

Prescriber’s name

d.

Patient's name

**Feedback**

The correct answer is: Medication name

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which USP Chapter concerns non-sterile compounding?

Select one:

a.

797

b.

795

Correct! USP 795 concerns non-sterile compounding.

c.

800

d.

None of the Above

**Feedback**

Your answer is correct.

The correct answer is: 795

**Question 4**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

1/2 Normal Saline is what percentage NaCl?

Select one:

a.

0.45%

Correct. Whole normal saline, or NS, is 0.9%, meaning 1/2 will be equal to 0.45% NaCl.

b.

None of the Answers are Correct

c.

0.9%

d.

1.8%

**Feedback**

The correct answer is: 0.45%

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What is the concentration of a normal saline solution?

Select one:

a.

0.45%

b.

0.25%

c.

0.9%

Correct! Normal saline, or NS, is 0.9% NaCl.

d.

0.75%

**Feedback**

The correct answer is: 0.9%

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What type of laminar airflow workbench is required for cytotoxic and hazardous drugs preparation?

Select one:

a.

Horizontal laminar flow hoods

b.

Vertical laminar flow hoods

Correct! Cytotoxic and hazardous drugs should be prepared in a vertical laminar flow hood to try and prevent exposure of the compounder to the medication.

c.

Parallel laminar flow hoods

d.

Perpendicular laminar flow hoods

**Feedback**

The correct answer is: Vertical laminar flow hoods

**Question 7**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

What type of cleaning agent should be used to clean a laminar flow hood?

Select one:

a.

70% Isopropyl Alcohol

b.

90% Ethyl Propyl alcohol

c.

90% Isopropyl Alcohol

Incorrect.

d.

50% Ethyl Propyl Alcohol

**Feedback**

The correct answer is: 70% Isopropyl Alcohol

**Question 8**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

Which USP Chapter concerns hazardous compounding?

Select one:

a.

797

Incorrect. USP 797 concerns sterile compounding.

b.

795

c.

895

d.

None of the Above

**Feedback**

Your answer is incorrect.

The correct answer is: None of the Above

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Airflow on a Vertical Laminar Flow Hood can be described as:

Select one:

a.

From top to bottom

Correct! Airflow in vertical laminar flow hoods flows from the top to the bottom.

b.

From side to side

c.

From bottom to the top

d.

From front to back

**Feedback**

The correct answer is: From top to bottom

**Question 10**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

When is the use of a parenteral product needed?

Select one:

a.

When the drug is needed in the patient’s system immediately

b.

All of the Answers are Correct

Correct! All of these are reasons that a medication may be given parenterally.

c.

If when given orally it will be inactivated by the Gastrointestinal tract or first pass metabolism

d.

When patients cannot take medications by mouth

**Feedback**

The correct answer is: All of the Answers are Correct

**Question 1**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

Which of the following can be used for more than one dose?

Select one:

a.

All of the Answers are Correct

Incorrect.

b.

MDV

c.

Ampule

d.

SDV

**Feedback**

The correct answer is: MDV

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Normal Saline is given intravenously, over a long period of time, this is known as:

Select one:

a.

None of the Answers are Correct

b.

Continuous Infusion

Correct! A continuous infusion refers to a fluid or medication that will run continuously until empty.

c.

IV Piggyback

d.

IV Push

**Feedback**

The correct answer is: Continuous Infusion

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Typically how long does a reconstitued medication last after reconstitution?

Select one:

a.

10-14 days

Correct! Most reconstituted antibiotics will remain good for 10-14 days; always remember to check the storage requirements and label appropriately (Refrigerate, Room Temperature, Shake, etc.).

b.

5-7 days

c.

7-10 days

d.

3 days

**Feedback**

The correct answer is: 10-14 days

**Question 4**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Normal Saline is what percentage NaCl?

Select one:

a.

0.225%

b.

0.45%

c.

0.9%

Correct! Normal Saline, or NS, is 0.9% NaCl.

d.

None of the Answers are Correct

**Feedback**

The correct answer is: 0.9%

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which USP Chapter concerns sterile compounding?

Select one:

a.

797

Correct! USP 797 concerns sterile compounding.

b.

795

c.

800

d.

None of the Above

**Feedback**

Your answer is correct.

The correct answer is: 797

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

The definition of trituration is:

Select one:

a.

Creation of a paste, while wet

b.

Reducing particle size by the use of a mortar and pestle

Correct! This is trituration.

c.

None of the Answers are Correct

d.

The mixing of solid materials by continuously heaping them together with a spatula until a homogenous mixture is reached

**Feedback**

The correct answer is: Reducing particle size by the use of a mortar and pestle

**Question 7**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What is the concentration of dextrose in 1 liter of D5W?

Select one:

a.

0.9%

b.

0.45%

c.

5%

Correct! The abbreviation D5W typically means Dextrose 5% in Water.

d.

0.5%

**Feedback**

Your answer is correct.

The correct answer is: 5%

**Question 8**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

When working in a horizontal laminar flow hood, you should work a minimum of how many inches from inside of the front edge of the hood?

Select one:

a.

2 inches

b.

12 inches

c.

6 inches

Correct! You should be at a minimum 6 inches from the front edge of the hood.

d.

10 inches

**Feedback**

The correct answer is: 6 inches

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

The definition of spatulation is:

Select one:

a.

None of the Answers are Correct

b.

Creation of a paste, while wet

c.

The mixing of solid materials by continuously heaping them together with a spatula until a homogenous mixture is reached

Correct! This is spatulation.

d.

Reducing particle size by the use of a mortar and pestle

**Feedback**

The correct answer is: The mixing of solid materials by continuously heaping them together with a spatula until a homogenous mixture is reached

**Question 10**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

Class A balances are used by most pharmacies. The minimum that can be weighed on them is:

Select one:

a.

200mg

b.

100mg

Incorrect. The least amount that should be weighed on a Class A balance is 120 mg.

c.

50mg

d.

120mg

**Feedback**

Your answer is incorrect.

The correct answer is: 120mg

**Question 1**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Match the following abbreviations with the correct meaning.

|  |  |
| --- | --- |
| NS | Answer 1Choose...0.45% NaCl Soln0.9% NaCl SolnDextrose 10% in WaterLactated RingersDextrose 5% in Water |
| 1/2 NS | Answer 2Choose...0.45% NaCl Soln0.9% NaCl SolnDextrose 10% in WaterLactated RingersDextrose 5% in Water |
| D5W | Answer 3Choose...0.45% NaCl Soln0.9% NaCl SolnDextrose 10% in WaterLactated RingersDextrose 5% in Water |
| LR | Answer 4Choose...0.45% NaCl Soln0.9% NaCl SolnDextrose 10% in WaterLactated RingersDextrose 5% in Water |
| D10W | Answer 5Choose...0.45% NaCl Soln0.9% NaCl SolnDextrose 10% in WaterLactated RingersDextrose 5% in Water |

**Feedback**

The correct answer is: NS → 0.9% NaCl Soln, 1/2 NS → 0.45% NaCl Soln, D5W → Dextrose 5% in Water, LR → Lactated Ringers, D10W → Dextrose 10% in Water

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which of the following has to be sterile:

Select one:

a.

Oral Medication

b.

Suppositories

c.

Ear Drops

d.

Eye Drops

Correct! Since eye drops are entering a sterile location, they have to be prepared in a sterile manner.

**Feedback**

The correct answer is: Eye Drops

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

D5NS was ordered for a parenteral injection, what is D5NS?

Select one:

a.

Dextrose 5cc in 0.9% sodium chloride (Normal saline)

b.

Dextrose 5% in 0.9% sodium chloride (Normal saline)

Correct! The combination D5NS comes from D5W, which is commonly used for Dextrose 5%, and NS, which is commonly used for 0.9% NaCl.

c.

Dextrose 5% in 0.75% sodium chloride (Normal saline)

d.

Dextrose 5cc in 0.45% sodium chloride (Normal saline)

**Feedback**

The correct answer is: Dextrose 5% in 0.9% sodium chloride (Normal saline)

**Question 4**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which of the following is a Unit Dose Packaging requirement?

Select one:

a.

Must protect the medication from breaking

b.

Must protect from the outside environment

c.

All of the Answers are Correct

Correct! All of these answers are correct.

d.

Must be properly labeled

**Feedback**

The correct answer is: All of the Answers are Correct

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

1/4 Normal Saline is what percentage NaCl?

Select one:

a.

0.125%

b.

0.45%

c.

None of the Answers are Correct

d.

0.225%

Correct! Whole normal saline, or NS, is 0.9%, meaning 1/4 will be equal to 0.225% NaCl.

**Feedback**

The correct answer is: 0.225%

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What USP document governs sterile compounding?

Select one:

a.

USP 795

b.

USP 597

c.

USP 797

Correct! This document governs sterile compounding.

d.

USP 800

**Feedback**

The correct answer is: USP 797

**Question 7**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What USP document governs non-sterile compounding?

Select one:

a.

USP 800

b.

USP 795

Correct! This document governs non-sterile compounding.

c.

USP 597

d.

USP 797

**Feedback**

The correct answer is: USP 795

**Question 8**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What is considered a sterile product?

Select one:

a.

All of the Answers are Correct

b.

Eye Drop

Correct! Eye drops must be prepared in a sterile format since they will be given directly to the eye.

c.

Tablets

d.

Suppository

**Feedback**

The correct answer is: Eye Drop

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

A total parenteral nutrition does not contain which of the following?

Select one:

a.

Diuretic

Correct! Diuretics are a class of medication meant to reduce fluid volume. These are not included in TPNs.

b.

Amino acids

c.

Electrolytes

d.

Vitamins

**Feedback**

The correct answer is: Diuretic

**Question 10**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

When should you use a filter needle?

Select one:

a.

When drawing liquid out of an ampule

b.

When drawing liquid out of a vial

c.

All of the Answers are Correct

Incorrect. Filter needles are needed when drawing a liquid out of an ampule, as it may have gotten glass fragments inside during opening.

d.

When drawing liquid out of a bigger syringe

**Feedback**

The correct answer is: When drawing liquid out of an ampule

**Question 1**

Incorrect

Mark 0.00 out of 1.00

Flag question

**Question text**

A vertical laminar flow hood should be cleaned:

Select one:

a.

Starting in the back, wiping side to side and working forward toward the user.

b.

Starting in the front, wiping side to side and working back away from the user.

Incorrect. You should clean horizontal laminar flow hoods in the direction of the air flow, or from far to near.

c.

Starting on the right, wiping side to side and working back away from the user.

d.

Starting on the left, wiping side to side and working back away from the user.

**Feedback**

Your answer is incorrect.

The correct answer is: Starting in the back, wiping side to side and working forward toward the user.

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

The definition of levigation is:

Select one:

a.

The mixing of solid materials by continuously heaping them together with a spatula until a homogenous mixture is reached

b.

Creation of a paste, while wet

Correct! This refers to levigation.

c.

Reducing particle size by the use of a mortar and pestle

d.

None of the Answers are Correct

**Feedback**

The correct answer is: Creation of a paste, while wet

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

IV Antibiotics that are given intravenously, overtop of a Normal Saline line, are known as:

Select one:

a.

IV Push

b.

None of the Answers are Correct

c.

IV Piggyback

Correct! An IV Piggyback is a medication that is given over-top of a patient's normal fluid line.

d.

Continuous Infusion

**Feedback**

The correct answer is: IV Piggyback

**Question 4**

Partially correct

Mark 0.50 out of 1.00

Flag question

**Question text**

Which of the following is required to be documented when repackaging?

Select one or more:

a. Mnfg

b. Generic Name

c. Lot #

Correct! You need to include the Lot # when repackaging medications.

d. Exp. Date

Correct! You need to include the expiration date when repackaging medications.

e. Date Made

**Feedback**

Your answer is partially correct.

You have correctly selected 2.

The correct answers are: Generic Name, Lot #, Exp. Date, Mnfg

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What type of filter is utilized on a laminar flow hood?

Select one:

a.

OSHA

b.

HEPA

Correct! HEPA, or High Efficiency Particulate Air, filters are utilized in laminar flow hoods in order to help sterilize the airfield.

c.

HIPAA

d.

OBRA

**Feedback**

The correct answer is: HEPA

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Morphine Sulfate given intravenously, by itself, at once, is known as:

Select one:

a.

Continuous Infusion

b.

IV Piggyback

c.

IV Push

Correct! IV push medications are those that can be attached by syringe to an IV and pushed straight into the patient's vein with no wait.

d.

None of the Answers are Correct

**Feedback**

The correct answer is: IV Push

**Question 7**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

1/4 Normal Saline is what percentage NaCl?

Select one:

a.

0.125%

b.

0.225%

Correct! Whole normal saline, or NS, is 0.9%, meaning 1/4 will be equal to 0.225% NaCl.

c.

0.45%

d.

None of the Answers are Correct

**Feedback**

The correct answer is: 0.225%

**Question 8**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

1/2 Normal Saline is what percentage NaCl?

Select one:

a.

1.8%

b.

0.45%

Correct. Whole normal saline, or NS, is 0.9%, meaning 1/2 will be equal to 0.45% NaCl.

c.

None of the Answers are Correct

d.

0.9%

**Feedback**

The correct answer is: 0.45%

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

When is the use of a parenteral product needed?

Select one:

a.

When patients cannot take medications by mouth

b.

If when given orally it will be inactivated by the Gastrointestinal tract or first pass metabolism

c.

When the drug is needed in the patient’s system immediately

d.

All of the Answers are Correct

Correct! All of these are reasons that a medication may be given parenterally.

**Feedback**

The correct answer is: All of the Answers are Correct

**Question 10**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What type of cleaning agent should be used to clean a laminar flow hood?

Select one:

a.

70% Isopropyl Alcohol

Correct!

b.

90% Ethyl Propyl alcohol

c.

50% Ethyl Propyl Alcohol

d.

90% Isopropyl Alcohol

**Feedback**

The correct answer is: 70% Isopropyl Alcohol

**Question 1**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What type of filter is utilized on a laminar flow hood?

Select one:

a.

OSHA

b.

HEPA

Correct! HEPA, or High Efficiency Particulate Air, filters are utilized in laminar flow hoods in order to help sterilize the airfield.

c.

OBRA

d.

HIPAA

**Feedback**

The correct answer is: HEPA

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which USP Chapter concerns hazardous compounding?

Select one:

a.

797

b.

795

c.

895

d.

None of the Above

Correct! USP 800 concerns the handling of hazardous drugs.

**Feedback**

Your answer is correct.

The correct answer is: None of the Above

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which USP Chapter concerns sterile compounding?

Select one:

a.

797

Correct! USP 797 concerns sterile compounding.

b.

795

c.

800

d.

None of the Above

**Feedback**

Your answer is correct.

The correct answer is: 797

**Question 4**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which of the following acronyms best describes the morphine button?

Select one:

a.

USP

b.

PCAB

c.

PCCA

d.

PCA

Correct! PCA stands for Patient-Controlled Analgesia.

**Feedback**

The correct answer is: PCA

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What type of laminar airflow workbench is required for cytotoxic and hazardous drugs preparation?

Select one:

a.

Vertical laminar flow hoods

Correct! Cytotoxic and hazardous drugs should be prepared in a vertical laminar flow hood to try and prevent exposure of the compounder to the medication.

b.

Parallel laminar flow hoods

c.

Horizontal laminar flow hoods

d.

Perpendicular laminar flow hoods

**Feedback**

The correct answer is: Vertical laminar flow hoods

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

IV Antibiotics that are given intravenously, overtop of a Normal Saline line, are known as:

Select one:

a.

None of the Answers are Correct

b.

Continuous Infusion

c.

IV Piggyback

Correct! An IV Piggyback is a medication that is given over-top of a patient's normal fluid line.

d.

IV Push

**Feedback**

The correct answer is: IV Piggyback

**Question 7**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which of the following is a Unit Dose Packaging requirement?

Select one:

a.

Must protect from the outside environment

b.

All of the Answers are Correct

Correct! All of these answers are correct.

c.

Must be properly labeled

d.

Must protect the medication from breaking

**Feedback**

The correct answer is: All of the Answers are Correct

**Question 8**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

A vertical laminar flow hood should be cleaned:

Select one:

a.

Starting on the right, wiping side to side and working back away from the user.

b.

Starting in the front, wiping side to side and working back away from the user.

c.

Starting in the back, wiping side to side and working forward toward the user.

Correct! You should clean horizontal laminar flow hoods in the direction of the air flow, or from far to near.

d.

Starting on the left, wiping side to side and working back away from the user.

**Feedback**

Your answer is correct.

The correct answer is: Starting in the back, wiping side to side and working forward toward the user.

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

Which of the following is required to be documented when repackaging?

Select one or more:

a. Date Made

b. Lot #

Correct! You need to include the Lot # when repackaging medications.

c. Mnfg

Correct! You need to include the manufacturer when repackaging medications.

d. Exp. Date

Correct! You need to include the expiration date when repackaging medications.

e. Generic Name

Correct! You need to include the generic name when repackaging medications.

**Feedback**

Your answer is correct.

The correct answers are: Generic Name, Lot #, Exp. Date, Mnfg

**Question 10**

Correct

Mark 1.00 out of 1.00

Flag question

**Question text**

What USP document governs sterile compounding?

Select one:

a.

USP 800

b.

USP 597

c.

USP 795

d.

USP 797

Correct! This document governs sterile compounding.

**Feedback**

The correct answer is: USP 797

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**Parenteral Medications**

IV antibiotics – used when a patient has a chronic, resistant, or blood infection.

IV pain medications – often given as PCA (Patient Controlled Analgesic) whereby a patient can control the frequency of administration (morphine button).

IV push – all the medication in a syringe is given at one time.

Continuous infusion – medication is infused into a patient over a specified period.

IV piggyback – medications that are delivered over top of the main line of fluids.

**Unit Dose Label**

* Medication name
* Mnfg
* Dose
* NDC
* Lot number
* Expiration date

**Unit Dose Packaging**

Must be properly labeled.

Must protect from the outside environment (heat, moisture, light, air, etc.)

Must protect the medication from breaking.

Typically expire 1 year from re-packaging unless the manufacturer’s expiration date is sooner.

Single-Dose Viral – used only once.

Multi-Dose Viral – used more than once.

USP-795 – Non-Sterile

USP-797 – Sterile

USP-800 – Hazardous Drugs

Trituration – Reducing a particle size by use of a mortar and pestle.

Levigation – Creation of a paste, usually by trituration while wet.

Spatulation – mixing of solid materials by continuously heaping them together with a spatula until a homogenous mixture is obtained. (Italian dressing is not homogenous when the oil separates but when shaken, it is homogenous).

When working in a horizontal laminar flow hood, you should work a minimum of how many inches from inside of the front edge of the hood?

6 inches

Patient-Controlled Analgesia (PCA)

Pharmacy Compounding Accreditation Board (PCAB)

Professional Compounding Centers of America (PCCA)

United States Pharmacopeia (USP)

What type of cleaning agent should be used to clean a laminar flow hood?

70% Isopropyl Alcohol

What type of laminar airflow workbench is required for cytotoxic and hazardous drugs preparation?

Vertical Laminar Flow Hoods

Typically, how long does a reconstituted medication last after reconstitution?

10-14 days