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1.4. List categories of a professional practice in Pharmacy. (10 marks)

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1.5. Briefly describe duties and responsibilities of a community pharmacist. (20 marks)

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2.

2.1.

2.1.1. Differentiate between primary, secondary, and tertiary sources of information. (15 marks)

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2.1.2. State advantages and disadvantages of tertiary information sources. (15 marks)

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2.1.3. Briefly describe about "patient care Era". (20 marks)

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2.2.

2.2.1. List **five** factors affecting drug dosage.

(10 marks)

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2.2.2. Briefly describe the effect of **one** factor mentioned above 2.2.1 on drug dosage. (15 marks)

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2.2.3. Calculate the dose for a child 5 years of age, 39 inches in height and weighing 32 lb, for a drug with an adult dose of 100 mg. (10 marks)

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2.2.4. If the recommended dose of vancomycin for a premature infant is 10 mg/kg/day, divided into two equal doses administered every 12 hours, how many milligrams of the drug should be given every 12 hours to an 8.8 lb infant? (15 marks)

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3.3. Illustrate the order of absorption of common pharmaceutical dosage forms.

(30 marks)

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3.4. Briefly state how ionization affects the physicochemical properties of a drug.

(20 marks)

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4.

4.1. Define the term “solubility”.

(05 marks)

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4.2. Briefly discuss the importance of solubility.

(30 marks)

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4.3. State **three** factors affect solubility of a drug.

(15 marks)

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4.4. Briefly explain the types of solutions.

(35 marks)

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4.5. List **three** chemical techniques used to enhance the solubility of a poorly soluble drug.

(15 marks)

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