

KATHMANDU UNIVERSITY
End Semester Examination
February, 2025

Marks Scored:

Level : B.Pharm.

Year : III

Exam Roll No. : .

Registration No.:

27 FEB 2025

Time: 30 mins.

Course : PHAR 322

Semester : I

F. M. : 20

Date :

SECTION "A"

[20 Q. × 1 =20 marks]

Choose and encircle the most appropriate option from each set of choices

- In 2000 A.D the formation of _____ opened the door for the Pharmacists to supply specific POM antibiotics to people with confirmed diagnostic infection.
a. DGD b. PGD c. NGD d. MGD
- United Kingdom and Nepalese pharmacists' involvement is more in _____ and _____ respectively
a. Primary care, Industry b. Industry, Marketing
c. Hospital, Industry d. Community pharmacy, Industry
- Which statement below on the sophistication of pharmaceutical industry is true?
a. It has given more opportunities to the pharmacists
b. It has provided flexibility in prescribing for doctors
c. Increase in the use of extemporaneous preparation
d. Reliability in the product has increased.
- Which one of the following definitions on elements of "communication skills" is **INCORRECT**?
a. Demeanor suggests one's attitude toward others as expressed in outward behaviour.
b. When we meet somebody for the first time, we make assumptions about that person. It is important that we are aware of these assumptions in order to avoid stereotyping people.
c. Hearing and listening are both physical ability and skill.
d. None of the above
- Main elements of good pharmacy practice does not include _____
a. Motivating patients for healthy lifestyle
b. Supply and the use of prescribed medicines and other healthcare products
c. Self-care
d. Good health prevention
- Which one of the following about "penetration pricing" is **CORRECT**?
a. Involves setting prices that are high relative to most purchaser's willingness to pay
b. Involves determining the rupee value benefit for the purchaser and pricing toward that rupee amount.
c. Involves determining the costs involved in making and delivering the product, including operational costs, and adding a "fair" amount above that.
d. None of the above

7. Blood pressure monitoring can be taken as an example of pharmaceutical care in community pharmacy. In which category of goods/ commodity does it fall?
 a. Intangible b. Inseparable c. Perishable d. all of the above
8. The Nepal government has allocated _____ Billion for the fiscal year 2080/81 to implement National Health Insurance.
 a. 2 b. 2.5 c. 3 d. 3.5
9. The latin term "Statim" stands for _____
 a. As before b. Immediately c. Everyday d. If necessary
10. The latin term "Quaque hora" stands for _____
 a. Every day b. Afternoon c. Every hour d. If necessary
11. Which of the following statements is **TRUE**?
 a. Upon removal of the Transdermal patch, the plasma drug concentration reduces abruptly to 0%.
 b. Recommended site of application for scopolamine patch is upper arm.
 c. Transdermal patch contains silver nitrate that may lead to skin burns during MRI.
 d. Transdermal drug delivery system avoids pulsed entry of drug into systemic circulation.
12. Which of the following statements is **TRUE**?
 a. Sieve size 80 has 80 openings per square meter in the screen mesh.
 b. Kaolin is used to relieve mouth soreness associated with radiation therapy.
 c. Levigation means powdering a substance by adding a suitable solvent to form a solution.
 d. As opening of the sieve becomes smaller, larger will be the resulting particle size.
13. Which of the following statements is **TRUE**?
 a. Starch acts both as a binder as well as disintegrating agent.
 b. Microcrystalline cellulose acts as a glidant.
 c. Glyceryl trinitrate tablets can be stored in plastic containers.
 d. Glyceryl trinitrate tablets start to loose potency 3 months after opening of the bottle.
14. Capsule size 4 contains _____ mg of content.
 a. 450 b. 150 c. 300 d. 100
15. Which of the following statements is **TRUE**?
 a. Polyethylene glycol releases drug by melting at body temperature.
 b. Cocoa butter base releases drug by dissolving in mucus secretion.
 c. Aminophylline suppositories can be used in arthritis pain.
 d. Non laxative rectal suppositories need to be used after defecation.
16. A cool place is _____
 a. Upto 15°C b. 2°C to 8°C c. 8°C to 15°C d. Above 15°C

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17. Which of the following statements is **TRUE**?
 - a. Mouthwashes always needs to be diluted.
 - b. Gargles should be used after meals.
 - c. Gargles should be used undiluted.
 - d. Mouthwashes should be swished in mouth for 2 to 3 minutes.

18. Which of the following statements is **TRUE**?
 - a. Total Parenteral Nutrition are given intramuscularly.
 - b. Oil emulsions can be used to formulate vaccines.
 - c. Emulsions do not need to be shaken before use.
 - d. Emulsions can be stored in freezer.

19. FIP considers GSD as the minimum information for labels of prescribed medicines where GSD stands for _____
 - a. Generic name, Safety of drug, Drug information
 - b. Good safety, Strength of medicines, Dosage regimen
 - c. Generic Name, Strength of medicine, Dosage instruction
 - d. Generic name, Safety of drug, Dose required

20. Which of the following statements is **TRUE**?
 - a. Horizontal cabinets should be used for preparation of cytotoxics.
 - b. Ampoule necks should be broken facing towards the operators.
 - c. Spillage involving cytotoxic powder should be wiped using a dry cloth.
 - d. Excreta of patients on cytotoxics should be assumed hazardous for at least 48 hours after administration of cytotoxics.

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F. M. : 55

Indicate by checking (√) of each question you have answered in the cover page of main answer book.

SECTION "B"

[5 Q. × 3 = 15 marks]

Attempt ANY FIVE questions.

1. Give reasons on how pharmacists can play important role in reducing health expenditure.
2. List down the strategies Pharmacy profession of Nepal should develop for the sustainability of the profession in coming future.
3. How Nepal Pharmacy Council defines Pharmacist and Pharmacy Assistant and orientation holder? Do they have equal power as far as running the community Pharmacy is concerned?
4. As a pharmacist, what are the things that you will check in the prescription prior to dispensing the drug?
5. Write briefly about how the operator techniques are validated for cytotoxic drug preparation.
6. Write a brief note on "Contact lenses and their solutions".
7. State any 3 differences between terminal sterilization and aseptic techniques.

SECTION "C"

[5 Q. × 5 = 25 marks]

Attempt ANY FIVE questions.

8. What are the communication elements that a pharmacist as a counsellor should possess for an effective communication with the patients? What are the various barriers to communication for pharmacists?
9. What are the points that need to be considered when developing a comprehensive and up-to-date job description? How staff retention benefits the organization?
10. What are the factors to be considered while responding to symptoms? Can a community pharmacist expert in responding to symptoms can decrease a patients' visit to hospital remarkably? Justify your opinion.
11. Write a detailed note on "Formulation of Solution".

P.T.O.

12. What are the different parts of a prescription? Also state the need of each part of prescription and what will happen if those parts are missed in the prescription.
13. Write down the steps in use of a diskhaler device. What are the various problems encountered in use of a metered dose inhaler? (3+2)
14. You are asked to prepare 15*1g suppositories, each containing phenobarbital BP 60 mg. Displacement value of the drug is 1.1. How much hard fat BP base would be contained in each suppository?

SECTION "D"

[2 Q. × 7.5.= 15 marks]

Attempt ANY TWO questions.

15. What are the prerequisites for commencing a community Pharmacy in Nepal? List down the clinical Pharmacy services that can be rendered through community Pharmacy. Discuss about the factors you need to consider for the successful running of the community Pharmacy.
16. Write in detail the steps in answering the "Drug Information" queries from Drug Information Centre. Also highlight the various works that can be done by DIC.
17. Answer the following questions
 - a. Problems encountered in formulation of emulsion [4]
 - b. Pharmaceutical applications of a suspension [3.5]