

KATHMANDU UNIVERSITY  
End Semester Examination [C]  
April, 2023

Marks Scored:

Level : B.Pharm.  
Year : IV

Course : PHAR 401  
Semester : I

Exam Roll No. : Time: 30 mins.

F. M. : 20

Registration No.:

Date : 07 APR 2023

SECTION "A"  
[20Q. × 1 = 20 marks]

**Encircle the most appropriate alternative from each set of choices.**

1. PharmD (Post-Baccalaureate) course in Pharmacy commenced in Kathmandu University in .....  
a. 2008                      b. 2009                      c. 2010                      d. 2011
2. Which statement below is the best reason behind the exploration and consequences of extended role by the U.K Pharmacist during 80's?  
a. Pharmacists wanted to cross the boundary medical and Pharmacy profession had.  
b. Nuffield report was the triggering factor for it  
c. Need for government's sole involvement was one of the recommendations of extended role  
d. None of the above
3. Which statement below on sociology is not true?  
a. Sociology's subject matter is diverse, ranging from crime to religion,  
b. It is also related to divisions of race and social class to the shared beliefs of a common culture, and from social stability to radical change in whole societies.  
c. Its purpose of understanding how human action and consciousness both shape and are shaped by surrounding cultural and social structures.  
d. None of the above
4. Which statement on disease and illness is right?  
a. A person may have a disease and not be ill  
b. A person might be ill and not have a disease  
c. Disease is professionally defined  
d. Illness has only social connotations.
5. Which of the following statements on emotion is right?  
a. Subjective feeling that affects and is affected by our behaviour and physiology  
b. a mental state that is spontaneous and does not come from conscious effort  
c. "Subjective"- feelings that are specific to you Sometimes those feelings are universal everyone feels them, but they are still subjective to each individual.  
d. Emotion is not affected by our thoughts
6. Events and circumstances that are perceived as threatening or harmful, and which produce feelings of tension is called .....  
a. Stress                      b. Stressor                      c. Distress                      d. Eustress

7. The use of OCP (Oral contraceptive pills) comes under which of the following purchase theories?
  - a. Transformational
  - b. Informational
  - c. Negative
  - d. Both b and c
8. Which one of the following is not a part of Three E's Model for lifestyle change?
  - a. Encouragement
  - b. Entertainment
  - c. Empowerment
  - d. Environment
9. The latin term "hora Somni" means.....
  - a. Food
  - b. At bedtime
  - c. Drops
  - d. Spray
10. Which of the following statements is correct?
  - a. Suspensions hydrolyse more rapidly than solutions
  - b. Suspensions have reservoir system that releases the drug slowly to replace the degraded amount
  - c. Buffer capacity of ophthalmic products must be high
  - d. Tear fluids do not possess any buffering capacity
11. Which of the following statements is true for the process of "Mixing by fusion"?
  - a. High temperature is required – Temperature above 900C
  - b. Medicament which is soluble and stable can be added during cooling
  - c. Gentle mixing ensures avoidance of lump formation
  - d. Unstable medicaments can be added when the base is in molten state
12. Which of the following statements is correct?
  - a. Ointments have less greasy bases than creams
  - b. Pastes are meant for localized drug delivery
  - c. Ichthammol ointment contains white paraffin
  - d. Hydrous wool fat is 3 parts wool fat and 7 parts water
13. The abbreviation mitt. stands for .....
  - a. At night
  - b. Food
  - c. Send
  - d. Twice
14. The latin term omnie die stands for .....
  - a. As before
  - b. At night
  - c. Everyday
  - d. Every morning
15. Titanium dioxide maybe added to soft shell capsule as.....
  - a. Preservative
  - b. Chelating agent
  - c. Plasticizer
  - d. Opacifier
16. Which of the following statements about "Karvol Capsule" is true?
  - a. It can be applied directly to the nostrils
  - b. It can also be taken orally
  - c. It is meant for inhalation purpose only
  - d. It is used for symptomatic relief of headache
17. Which of the following statements about Glyceryl trinitrate tablets is correct?
  - a. The drug can be stored in plastic containers
  - b. The tablets can be transferred into small containers that are convenient to carry around
  - c. The drug loses its potency after 8 weeks of opening of the container
  - d. The drug can be stored at temperature above 25°C

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18. Hard gelatin shell capsule of size "3" has approximate capacity of.....  
a. 100 mg                      b. 250 mg                      c. 450 mg                      d. 200 mg
19. Aspartame is a .....  
a. Flavouring agent    b. Colouring agent  
c. Antioxidant    d. Sweetening agent
20. Which of the following statements is true?  
a. Tincture of iodine is intended for application to the mucosa of throat or mouth  
b. Intake of food or water should be avoided for 1 hour after application of throat paint  
c. Glycerin acts as a preservative in Mandl's paint  
d. Tinctures are dilute aqueous antimicrobial solutions

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F.M. : 55

SECTION "B"

[5Q. × 3 = 15 marks]

Attempt *ANY FIVE* questions.

1. Define Pharmacy, emotion and sick-role behaviour.
2. Classify symptom and define them.
3. What is health belief model?
4. A patient comes to your pharmacy with the prescription of Betadine gargle for his sore throat. How will you counsel the patient on use of the medication?
5. Define the following:
  - a. Off label medicine
  - b. Levigation
  - c. Extemporaneous preparation
6. What are the four basic principles involved in preparation of powder?
7. What are the steps involved in use of a Rotahaler device?

SECTION "C"

[5Q. × 5 = 25 marks]

Attempt *ANY FIVE* questions.

8. Explain the modality of revolution that took place in UK after 1947 to uplift the Pharmacy profession.
9. Discuss about models of Health. What do you think, has Nepal government health structure been able to address different dimensions of the models of health? Give your opinion.
10. Draw a schematic diagram of a model of the social and behavioural factors involved in health and illness and briefly explain.
11. Write a detailed note on use of metered dose inhaler and the problems encountered with the use of this device.
12. List down the various pharmaceutical applications of emulsion. Also mention the different advantages and disadvantages of emulsions. [3+2]

13. You are asked to prepare 15 suppositories each of 1g weight. Each suppository contains Paracetamol 100 mg. Displacement value of Paracetamol is 1.5. Calculate how much hard fat base would be contained in each suppository.
14. Write a detailed note on formulation of solution.

SECTION "D"

[2Q. × 7.5 = 15 marks]

Attempt *ANY TWO* questions.

15. Write a detailed note on "Formulation of suspension".
16. Write down the detail procedure of filling a prescription. Based on the exposure in Dhulikhel Hospital Pharmacy discuss on the problems a novice dispenser can encounter during dispensing and counseling?
17. Write a short note on:
- a. Advantages and disadvantages of Transdermal drug delivery system [4]
  - b. Risks associated with extemporaneous preparations [3.5]