

KATHMANDU UNIVERSITY
End Semester Examination

17 January 2024

Marks Scored:

Level : B.Pharm.

Year : IV

Course : PHAR 401

Semester : I

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date :

SECTION "A"

[20Q. × 1 = 20 marks]

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

- In 1972 Certificate level course in Pharmacy was commenced in Institute of Medicine (IOM), Maharajgunj. The duration of the course was years.
a. 1 b. 2 c. 2.5 d. 3
- MBBS course in Nepal was commenced in A.D
a. 1977 b. 1978 c. 1979 d. 1980
- Between 1979 and 1986 many reports on the future of pharmacy were prepared in United Kingdom. is one of them.
a. Noble b. Nuffield[c. Nofield d. Neodim
- Which of the following statements on genetic and biological determinants of disease is **INCORRECT**?
a. Origin of most health problems seems to lie in human genes
b. Hypertension and diabetes can be hereditary.
c. Research has shown that poor genetic endowment can be overruled by favourable upbringing and environment
d. Genes for alcoholism, anti-social behaviour and obesity haven't been identified.
- Which statement below on consumerism is **INCORRECT**?
a. Consumerism emphasize on more role of the individual and patient
b. Consumerism trend has put decreasing demands on pharmacists regarding their knowledge base as patients themselves can get more drug related information
c. People have become more committed to getting and taking control of their own lives and assessing the impact of their behaviour on their health.
d. Dominant role of health care personnel has diminished due to consumerism.
- In Nepal, Prescriptions for all group "Ga" medicines can be written by
a. Doctor, Dentist, Pharmacist
b. Doctor, Dentist, HA, Pharmacy Assistant
c. Doctor, CMA, D Pharm Holders
d. Doctor, Dentist, C.M.A, Veterinary doctors
- Which one of the following is not a part of Three E's Model for lifestyle change?
a. Entertainment b. Encouragement c. Empowerment d. Environment
- Which statement below on health knowledge, beliefs and attitude is **INCORRECT**?
a. Knowledge alone is not sufficient to ensure change in behaviour.
b. People with internal locus of control are in control of their own health by their actions and behaviour.
c. Conflict theory is used to explain rational and irrational decision making
d. Behaviour is the way you think and feel about someone or something.

9. The latin term "hora Somni" means.....
 a. Food b. At bedtime c. Drops d. Spray
10. Which of the following statements is **TRUE**?
 a. Betadine gargle can be safely used in pregnant women
 b. It is better to take food and water immediately after using mouthwash or gargle
 c. Betadine gargle is diluted in 1:1 ratio with water prior to use
 d. It is better to use chlorhexidine mouthwash in diluted form
11. The most appropriate behavior during a communication is
 a. Aggressive b. Submissive c. Passive d. Assertive
12. 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
13. Capsule No. 000 contains.....mg powder.
 a. 100 mg b. 450 mg c. 950 mg d. 300 mg
14. Which of the following is **NOT** a property of "Theobroma Oil"?
 a. Readily liquefies on heating but sets rapidly on cooling
 b. It is polymorphic
 c. It can adhere to the walls of suppository mould
 d. It is suitable for use in hot climates
15. A cool place refers to a temperature between
 a. 2 and 8⁰c b. Upto 8⁰c c. -2 and -8⁰c d. 8 and 15⁰c
16. The abbreviation mitt. stands for
 a. At night b. Food c. Send d. Twice
17. Which of the following flavouring agents would you choose to mask a bitter taste?
 a. Mint b. Apricot c. Vanilla d. Citrus fruits
18. Which of the following statements is **TRUE** about "Water for preparations"?
 a. These are used in IV preparations
 b. These are intended to be sterile
 c. These are freshly boiled and cooled purified water
 d. These are pyrogen free distilled water
19. Which of the following is the inhaler device with self-firing mechanism?
 a. Rotahaler b. Autohaler
 c. Metered dose inhaler d. Diskhaler
20. Sociable area to be maintained during communication is approximately.....
 a. > 3cm b. 15-50 cm c. 0.5-1m d. 1-3 cm

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

SECTION "B"
[5Q × 3 = 15 marks]

Attempt *ANY FIVE* questions.

1. Define Orientation Holder, Type A behaviour and pharmco-mythologies.
2. What are the advantages of Consumerism in health sector?
3. Give reasons on how pharmacists can play important role in Public health.
4. What do you understand by "Extemporaneous preparation"? What are the various risks associated with extemporaneous preparation?
5. Give a comparison of flocculated and deflocculated suspension.
6. How will you counsel a patient on use of nasal drop?
7. What are the problems encountered in formulation of an emulsion?

SECTION "C"
[5Q × 5 = 25 marks]

Attempt *ANY FIVE* questions.

8. Explain different theories related to health knowledge, beliefs and attitudes.
9. What are Pharmaceutical care related activities within dispensing. Discuss.
10. List down determinants of health and discuss about models of health.
11. What are the various methods of preparing an emulsion?
12. Write a detailed note on "Formulation of solution".
13. What are the various pharmaceutical applications of a suspension?
14. Prepare 6 suppositories containing 300 mg of bismuth subgllate using 1g mould. Displacement value of Bismuth subgallate is 2.7. Calculate the amount of base required for the preparation.

SECTION "C"
[2Q × 7.5 = 15 marks]

Attempt *ANY TWO* questions

15. Briefly discuss the evolution of Pharmacy in Nepal with reference to United kingdom's change trend.
16. What are the various advantages and disadvantages of Transdermal drug delivery system? What are the various listening and questioning skills that a pharmacist should use during counseling? [4+3.5]
17. Write down the following questions
 - a. Steps in using the metered dose inhaler [4]
 - b. Problems associated with use of metered dose inhaler [3.5]