

KATHMANDU UNIVERSITY  
End Semester Examination  
March/April, 2017

Marks Scored:

Level : B. Pharm.

Year : IV

Course : PHAR 401

Semester : I

Exam Roll No. :

Time : 30 mins.

F. M. : 20

Registration No. :

Date : **MAR 27 2017**

SECTION "A"

[20 Q. × 1 = 20 marks]

Tick [✓] the correct answer.

- Pharma Expo 2017 was held in Bhrikutimandap from .....  
[a] 3<sup>rd</sup> - 5<sup>th</sup> February [b] 15<sup>th</sup> - 17<sup>th</sup> February  
[c] 9<sup>th</sup> - 11<sup>th</sup> March [d] 3<sup>rd</sup> - 5<sup>th</sup> March
- The most appropriate behaviour during a communication is.....  
[a] Assertive [b] Aggressive [c] Passive-aggressive [d] Submissive
- 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
- The full form of IPSF is.....  
[a] International Pharmacy Social Federation  
[b] International Pharmaceutical Students' Federation  
[c] International Pharmacy Students' Forum  
[d] International Pharmaceutical Societal Federation
- In Nepal, Prescriptions can be written by  
[a] Doctor, Dentist, Pharmacist  
[b] Doctor, Dentist, HA, Pharmacy Assistant  
[c] Doctor, Dentist, 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] Encouragement [b] Entertainment [c] Empowerment [d] Environment
- 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
- "Store in a Cool Place" refers to the temperature range.....  
[a] 36 °F to 46 °F [b] -13 °F to 14 °F [c] 46 °F to 59 °F [d] 68 °F to 77 °F
- The Latin term "hora Somni" means.....  
[a] Food [b] At bedtime [c] Drop [d] Spra
- All are the disadvantages of transdermal drug delivery system except:  
[a] Only suitable for potent drugs  
[b] Only suitable for lipid soluble drugs  
[c] Only suitable for drugs with long half lives  
[d] Only suitable for drugs that do not cause skin allergy

11. PEG (Macrogol) is  
 [a] Hydrocarbon base [c] Absorption base  
 [b] Water miscible base [d] Hydrophilic base
12. The abbreviation "Nocte" means  
 [a] Every morning [b] Every day  
 [c] At night [d] At night and morning
13. Which of the following statements is true?  
 [a] Calamine lotion is an example of liniment  
 [b] Witch hazel is an example of soaks  
 [c] Paints are dilute aqueous or alcoholic antimicrobial solutions  
 [d] Throat paints are viscous due to high content of polyethylene glycol
14. Which of the following statements is false?  
 [a] Capsules can be used to hold oil for inhalation  
 [b] Capsules can be used for rectal or vaginal administration  
 [c] Finished soft gelatin capsule contains 60-80% water  
 [d] Titanium dioxide in soft gelatin capsules can be used as an opacifier
15. Which of the following statements is false?  
 [a] Displacement value of a drug is the number of parts by weight of base that displaces part by weight of the drug  
 [b] Starch can be used as a disintegrating agent in tablets  
 [c] A mould may produce suppositories with different weights depending upon the bases being used  
 [d] Synthetic fats are prepared by hydrogenating suitable vegetable oils
16. A "busy pharmacy" belongs to .....category of "barriers to communication"  
 [a] Environment [b] Patient factors [c] Pharmacist [d] Time
17. In the formula for estimating shelf life of a medicine,  $T(T_2) = T(T_1)/Q_{10}^{(T_1-T_2)/10}$ ,  
 $T(T_2)$  stands for :  
 [a] Expected storage condition temperature  
 [b] Temperature at accidental storage condition  
 [c] Shelf life at expected storage condition  
 [d] Activation energy temperature
18. Which of the following is not a test to confirm the type of emulsion?  
 [a] Conductivity measurement [c] Phase inversion test  
 [b] Dye test [d] Staining test
19. Which of the following is true for "Accelerated stability testing"?  
 [a] Done to calculate the overage required  
 [b] Use more extreme conditions to predict behavior under normal conditions  
 [c] Use more extreme conditions to predict behavior under extreme conditions  
 [d] Is easy to carry out and is inexpensive
20. Aspartame is a .....  
 [a] Flavouring agent [c] Antioxidant  
 [b] Colouring agent [d] Sweetening agent

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Time : 2 hrs. 30 mins.

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Semester : I  
F. M. : 55

SECTION "B"

[5Q. × 3 = 15 marks]

Indicate by checking (✓) of each question you have answered in the cover page of main answer book.  
Answer *ANY FIVE* of the following questions:

1. List down the theories that are related to health knowledge, beliefs and attitudes.
2. Name a Pharmacy Manpower whose status as per legal provision is same as a Pharmacist but educational qualification is different. Is it okay for you? Give reasons for your answer.
3. List down the components of community Pharmacy Contractual Framework set down for England, Wales and Scotland.
4. List down the advantages and disadvantages of emulsion.
5. How can you increase solubility of compounds with low solubility?
6. How will you counsel a patient who has been prescribed Chlorhexidine gluconate mouthwash?
7. Briefly discuss the excipients used in formulating a tablet with examples.

SECTION "C"

[5Q. × 5=25 marks]

Answer *ANY FIVE* questions:

8. List out different functions of medicine? Discuss on the factors that influences treatment with medicine.
9. Mention steps for handling a prescription. Were you able to implement all the steps during your practice in Dhulikhel Hospital Pharmacy? If not discuss on the steps you missed.
10. Narrate detail incidents that took place in UK in Pharmacy Profession from 1948 to 2000 when finally prominent components envisioned was achieved.
11. You receive a prescription for preparing 10x1 g suppositories, each containing carbamazepine BP 40 mg. Displacement value = 1.2. Calculate how much hard fat BP would be contained in each suppository and in 10 suppositories.
12. Explain various methods of dispensing or preparing semi solid preparations. Also discuss the methods of preparation of creams.
13. How will you counsel a patient who has been put on disk haler for the first time? What are the principles involved in preparation of powder? [3+2]

14. What are the various advantages and disadvantages of the transdermal drug delivery system? State the various ingredients used in formulating a suspension along with their uses. [3+2]

SECTION "D"  
[2Q. ×7.5 =15 marks]

Answer *ANY TWO* questions:

15. **“Pharmacy Profession can no longer grow further without integrating Public Health Component in its Philosophy”**. Justify this statement by considering wider determinants of health and illness.
16. Discuss in detail the “Formulation of solution” with example.
17. Answer the following questions
- a. Discuss the factors affecting the storage and stability of medicines with examples.
  - b. What type of listening and questioning skills a pharmacist needs to have to communicate with their patients?