

KATHMANDU UNIVERSITY
End Semester Examination
February/March, 2018

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 18 2018

SECTION "A"

[20 Q.×1=20 marks]

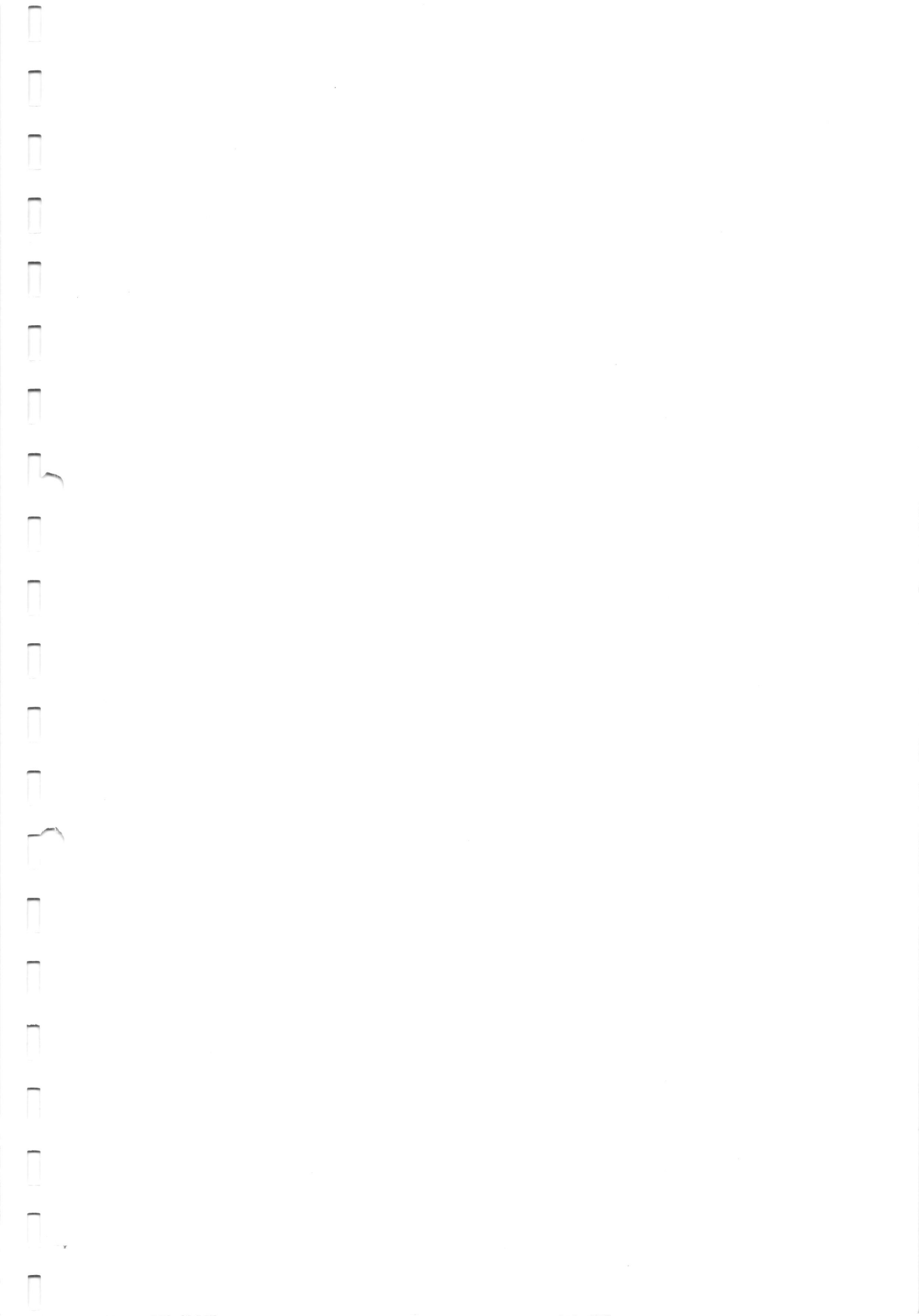
- I. Tick [✓] the correct answer.
- Intermediate level course in Pharmacy commenced in Institute of Medicine (IOM), Maharajgunj in
[a] 1994 [b] 1962 [c] 1972 [d] 2006
 - The use of OCP (Oral contraceptive pills) comes under which of the following purchase theories?
[a] Transformational [b] Informational [c] Negative [d] Both b and c
 - The full form of APPS is.....
[a] Asian Pharmaceutical Product scientists
[b] Asia Pacific Pharmaceutical Symposium
[c] African Pharmaceutical Product scientists
[d] Asia-Pacific Pharmaceutical Scientists
 - All are true for a label except:
[a] Simple language should be used
[b] Passive verbs should be used
[c] It is used to identify and instruct on use of a medicine
[d] It must be typewritten or computer generated
 - The Nepal government had allocated billion for the fiscal year 2073/74 to implement National Health Insurance plan.
[a] 2 [b] 2.5 [c] 3 [d] 3.5
 - It tookyears for nuffield report to materialize.
[a] 20 [b] 2 [c] 22 [d] 23
 - United Kingdom and Nepalese pharmacists involvement is more inand respectively
[a] Primary care, Industry [b] Industry, Marketing
[c] Hospital, Industry [d] Community pharmacy, Industry
 - The latin term "hora Somni" means.....
[a] Food [b] At bedtime [c] Drops [d] Spray

9. 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
10. The most appropriate behavior during a communication is.....
[a] Aggressive [b] Submissive [c] Passive [d] Assertive
11. 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
12. 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
13. The term "Recently Prepared" refers to products that must be discarded after.....weeks of issued when stored at 15-25°C
[a] 8 weeks [b] 1 week [c] 2 weeks [d] 4 weeks
14. Titanium dioxide maybe added to soft shell capsule as.....
[a] Preservative [b] Chelating agent [c] Plasticizer [d] Opacifier
15. Hard shell capsule of size "5" has approximate capacity of.....mg
[a] 100 [b] 650 [c] 300 [d] 800
16. The term "Cold Freon effect" refers to.....
[a] Failure to synchronize breathing in and firing of aerosol
[b] Impaction of drug in mouth and pharynx
[c] Early breath cut off by chlorofluorocarbon
[d] Exhalation of drug particles without holding breath for adequate time
17. The latin abbreviation "gtt." refers to
[a] Spray [b] Ear drops [c] Eye lotion [d] Drops
18. Which of the following statements is **not true** for "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

19. Which of the following statements is correct?
- [a] Ointments have less greasy bases than creams
 - [b] Pastes are meant for localized drug delivery
 - [c] Icthammol ointment contains white paraffin
 - [d] Hydrous wool fat is 3 parts wool fat and 7 parts water

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20. Which of the following statements is true for the process of "Mixing by fusion"?
- [a] High temperature is required – Temperature above 90°C
 - [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



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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.

II. Answer any *FIVE* of the following questions :

1. Define Profession, Social Pharmacy and Biomedical Disease Model.
2. Distinguish between public health and public health pharmacy.
3. Briefly discuss on the role of personality in illness.
4. Define the following terms:
 - a) Extemporaneous preparation
 - b) Off label medicine
 - c) Manipulated products
5. A patient comes to your pharmacy with the prescription: Ofloxacin ear drop, 3 drops to be applied in right ear, TDS, for 5 days. How will you counsel the patient on proper use of ear drop?
6. A patient comes to your pharmacy with the prescription: Alendronate tablet 70 mg PO, once weekly. How will you counsel the patient on the use of the particular medicine? State any one disease condition in which this drug is prescribed.
7. Define the following terms:
 - a) Levigation
 - b) Geometric dilution
 - c) Paints and Tinctures

SECTION "C"

[5Q.×5=25 marks]

III. Answer any *FIVE* questions:

8. Discuss about pharmacy education and pharmaceutical development in Nepal.
9. Discuss about the pros and cons of computerized and hand-written label. Based upon your labeling experience as a dispenser during training in Dhulikhel Hospital Pharmacy, identify the core elements of label.
10. Behavior change is a very complex process. Discuss on this process.
11. Write a detailed note on "Formulation of Solutions".
12. Give a comparison of the flocculated and deflocculated suspensions. State the important pharmaceutical applications of suspension. [2+3]

13. Give a short note on various classes of emulsifying agents used in formulating emulsion. Describe 3 different methods of preparing an emulsion. [2+3]
14. 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.

SECTION "D"

[2Q.×7.5=15 marks]

IV. Answer any *TWO* questions:

15. Draw a schematic diagram representing a model of the social and behavioral factors involved in health and illness and discuss on the common points for socio-behavioral aspects of health and illness and socio-behavioral aspects of treatment with medicines.
16. Write a detailed note on listening and the questioning skills that a pharmacist must possess while counseling a patient. Classify and describe various barriers to communication in a pharmacy.
17. Answer the following questions
- a) How will you counsel a patient on the use of Diskhaler device? [3.5]
- b) Write down the advantages and disadvantages of transdermal drug delivery system. [4]