

KATHMANDU UNIVERSITY  
End Semester Examination  
February/March, 2019

Marks scored:

Level : B. Pharm.  
Year : IV

Course : PHAR 401  
Semester : I

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date FEB 25 2019

SECTION "A"

[20Q. × 1 = 20 marks]

I. Tick [√] the correct answer.

1. Events and circumstances that are perceived as threatening or harmful and which produce feeling of tension is called .....  
[a] Stress                      [b] Stressor                      [c] Distress                      [d] Eustress
2. Psychology is the study of mind and .....  
[a] Motor actions              [b] Matter                      [c] Man                      [d] Behavior
3. Beecham opened Britain's first modern .....factory in St. Helens in .....A.D  
[a] Unani , 1849                      [b] drugs, 1859  
[c] alternative medicine, 1869                      [d] Ayurvedic, 1879
4. 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
5. The ratio of doctors to pharmacists is 1: 0.072 and pharmacy technicians to pharmacists is .....  
[a] 1:2.05                      [b] 1:1                      [c] 1:5                      [d] 1:4
6. In UK and Nepal, pharmacist's involvement is more in .....and ..... respectively.  
[a] Primary care, Industry                      [b] Industry, Marketing  
[c] Hospital, Industry                      [d] Community pharmacy, Industry
7. Which of the statements 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] It has increased the use of extemporaneous preparations  
[d] Reliability in the product has increased
8. 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
9. The abbreviation mitt. stands for .....  
[a] At night                      [b] Food                      [c] Passive                      [d] Twice
10. Appropriate behavior during pharmacist-patient communication is .....  
[a] Aggressive                      [b] Submissive                      [c] Passive                      [d] Assertive

11. Which of the following statements is true?  
[a] Parenteral preparations make use of water for preparation  
[b] Chloro cresol can be used as a stabilizer in solution  
[c] Retention enemas can be administered both for local as well as systemic actions of a drug  
[d] Sorbitol is a popular sucrose base that has largely replaced traditional syrup
12. Which of the following statements is true?  
[a] Buffering capacity of ophthalmic suspensions must be high  
[b] IV anesthetic agent Propofol is available as a suspension  
[c] IM injections of emulsions for depot therapy are available as w/o type  
[d] Filter paper soaked in cobalt chloride solution turns from pink to blue on exposure to o/w emulsions
13. Caking of a suspension or creaming of an emulsion leads to.....  
[a] Loss of drug  
[b] Loss of vehicle  
[c] Loss of uniformity  
[d] Appearance of toxic products
14. Which of the following flavoring agents would you choose to mask a bitter taste?  
[a] Mint  
[b] Apricot  
[c] Vanilla  
[d] Citrus fruits
15. A cool place refers to a temperature between  
[a] 2 and 8°C  
[b] Up to 8°C  
[c] -2 and -8°C  
[d] 8 and 15°C
16. Which of the following statements is true?  
[a] Beeswax acts as an w/o emulsifying agent  
[b] Emulsions made with anionic surfactants are generally stable at acidic pH  
[c] Cetrimide is a type of non ionic surfactant  
[d] Both anionic and cationic surfactants can be used in emulsions for parenteral use
17. Which of the following statements is true?  
[a] White paraffin is used in ichthammol ointment  
[b] Cetostearyl alcohol is used to thicken the ointment  
[c] Dimethicone is used as an emulsifier in the ointment  
[d] Addition of zinc oxide can increase occlusiveness of ointments
18. Which of the following statements is false?  
[a] Microcrystalline cellulose can be used as a diluent  
[b] Ascorbic acid is available as an effervescent tablet  
[c] Glyceryl trinitrate tablets can be packed in plastic containers with tightly fitting screw caps  
[d] Microcrystalline cellulose can be used as a disintegrating agent in tablets
19. Which of the following statements is true?  
[a] Capsules can be used to hold oil for inhalation  
[b] Potassium sorbate is an opacifier used in soft gelatin capsules  
[c] Hard shell capsule no. 1 has a capacity of 100 mg.  
[d] Pastilles are also known as water capsules
20. Which of the following is true for "Mixing by fusion"?  
[a] Temperature above 100°C is required  
[b] Mixing should be gentle  
[c] Soluble and stable medicament must be added when the base is cool  
[d] Less stable or insoluble medicament must be added when the base is molten

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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]

Answer *ANY FIVE* of the following questions:

1. Define Social Pharmacy, Mental health and Nested model of health.
2. What is Public Health Pharmacy? List down the variables for wider determinant and life style determinants of health?
3. List down the strategies to be developed for the sustainability of pharmacy profession.
4. Define the term extemporaneous preparation. What are the risks associated with extemporaneous preparations? [1+2]
5. A patient comes to your pharmacy with the prescription of Glyceryl trinitrate sublingual tablet. How will you counsel the patient on use, handling and storage of this medication?
6. Write a brief note on the following:
  - a. Difference between freshly prepared and recently prepared preparations
  - b. Throat paints
  - c. Reconstitution of dry powders and granules
7. How will you instruct a patient on use of nasal drops and nasal sprays?

SECTION "C"

[5Q. × 5 = 25 marks]

Answer *ANY FIVE* questions:

8. Write a note of the events that occurred during 1948 to 2005 which finally lead to the introduction of community pharmacy contractual framework of England and Wales in 2005.
9. Discuss different ways in which outcomes of medical treatment can be achieved.
10. Discuss about the determinants and models of health and the role of pharmacy profession in preventing ill health.
11. A person comes to the pharmacy to buy chlorhexidine gluconate oral rinse. How will you counsel him on its direction for use, indication, possible side effects and cautions?
12. Describe the different methods of preparation of emulsion.

13. Write down the steps in use of an autohaler device. What might be the problems that can be encountered while using a metered dose inhaler? [3+2]
14. Prepare 15 suppositories of Phenobarbital BP 120 mg. Mould size is 1g. Displacement value = 1.2. How much hard fat base would be contained in each suppository?

SECTION "D"

[2Q. × 7.5 = 15 marks]

Answer ANY TWO questions:

15. Give various definitions of dispensing. Mention the routine procedure for dispensing or filling prescriptions by considering your exposure at Dhulikhel Hospital.
16. Write a detailed note on "Formulation of suspension".
17. Answer the following questions:  
a) Macrogol as a suppository base [3.5]  
b) Barriers to communication in pharmacy [4]