

KATHMANDU UNIVERSITY
End Semester Examination
July/August, 2024

Marks Scored:

Level : B.Pharm.
Year : II

Course : PHAR 222
Semester : II

Exam Roll No. :

Time: 30 mins.

F. M. :20

Registration No.:

Date

26 JUL 2024

SECTION "A"

[20 Q. × 1 = 20 marks]

Choose and encircle the most appropriate option.

1. When a rectal suppository is used to treat fever, it would represent _____ type of drug delivery
 - a. Parental and local
 - b. Parenteral and systemic
 - c. Enteral and local
 - d. Enteral and systemic
2. It is the result of β_2 inhibition
 - a. Increase lipolysis
 - b. Increase GI motility
 - c. Detrusor muscle relaxation
 - d. Bronchodilation
3. Ionization of drug X with Pka value 2.1 is greatest in one of the following pH
 - a. 1
 - b. 8
 - c. 3
 - d. 6
4. When medicine is administered in spinal cavity, this route is known as
 - a. Intrathecal
 - b. Intraosseous
 - c. Intraperitoneal
 - d. Intraspinal
5. Administration of aspirin and caffeine together to relieve migraine is an example of :
 - a. Chemical antagonism
 - b. Additive effect
 - c. Physical antagonism
 - d. Potentiation effect
6. One of the following is semisynthetic anticholinergic drug
 - a. Oxybutynin
 - b. Procyclidine
 - c. Homatropin
 - d. Clidinium
7. One of the following about epinephrine is false
 - a. Cause vasodilation at high dose
 - b. Preferred route is intramuscular
 - c. Can be used in cardiac arrest
 - d. Can aggravate diabetes
8. β -blocker is not given in hypertension concomitant with:
 - a. Heart failure
 - b. Chronic renal failure
 - c. Recurrent stroke
 - d. Diabetes
9.is a preferred anticoagulant of choice in deep vein thrombosis during pregnancy?
 - a. Warfarin
 - b. Dabigatran
 - c. Acenocoumarol
 - d. Enoxaparin
10. Which statement **CORRECTLY** describes how streptokinase work?
 - a. Inhibits vitamin K dependent clotting factors
 - b. Decrease platelet clumping
 - c. Creates an active complex that converts plasminogen to the plasmin
 - d. Dilates the blood vessels to inhibit clotting

KATHMANDU UNIVERSITY
End Semester Examination
July/August, 2024

Level : B.Pharm.
Year : II
Time : 2 hrs. 30 mins.

26 JUL 2024

Course : PHAR 222
Semester : II
F. M. : 55

SECTION "B"

[5 Q. × 3 = 15 marks]

Attempt *ANY FIVE* questions.

1. What do you understand by desensitization of receptor? What are the functions of receptors?
2. Explain about different types of antagonism with an example.
3. Define adverse drug reaction and list its types with relevant examples.
4. Explain about target level dose and titrated dose.
5. Elaborate on ideal properties of chelating agents used for treating heavy metal poisoning.
6. Explain the mechanism of action of digoxin as a cardiac glycoside drug for treating CHF.
7. Write short notes on:
 - a. Uses of plasma volume expanders
 - b. ABCD management during poisoning

SECTION "C"

[5 Q. × 5 = 25 marks]

Attempt *ANY FIVE* questions.

8. Classify neuromuscular blocking drugs. Elaborate one drug from each group.
9. Explain how the dose response curve is generated. Explain about the information that we can get from this curve.
10. Explain the process of drug distribution and metabolism in human body.
11. Explain various techniques used to administer local anesthesia with an example for each.
12. Classify antianginal drugs. Explain on MOA and adverse effects of nitrates as an antianginal drug.
13. How do you manage a patient with myocardial infraction? Explain the MOA of a fibrinolytic drug in treating myocardial infraction.
14. Classify antihyperlipidemic drugs. Explain the MOA and ADRs of Atorvastatin.

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SECTION "D"
[2 Q. × 7.5 = 15 marks]

Attempt *ANY TWO* questions.

15. Classify sympathomimetics according to its mechanism of action and therapeutic indications. Elaborate epinephrine with its MOA, pharmacokinetics, adverse effects and uses.
16. Classify various drugs used to treat hypertension. Explain the MOA, ADRs and therapeutic uses of furosemide, enalapril and amlodipine as antihypertensive agents.
17. Discuss in detail on various treatment approaches used under drug toxicity management. How do you manage a patient with paracetamol overdose?

KATHMANDU UNIVERSITY
School of Science/ School of Engineering
End-Semester Examinations
July/August 2024

Examination Time: 11:00 A.M. to 2.00 P.M.

Date/Day	II-I	II-II	III-I	III-II
July 26, 2024 Friday		PHAR 222		ETEG 305 EPEG 318 MEEG 308 COMP 302 CIEG 308 BIOT 308 MATH 327 GEOM 315 ESEE 307 ARCH 319
July 28, 2024 Sunday			ETEG 320 EPEG 302 MEEG 325 MEEG 328 COMP 301 COMP 317 MATH 326 CIEG 301 GEOM 316 CHEG 301 ARCH 301 ESEE 302 PHAR 318 BIOT 301	
July 29, 2024 Monday	EEEG 202 MEEG 219 GEOM 201 CIEG 204 CHEM 201 ARCH 201 MEEG 218 BIOT 201 ENVS 209			
July 30, 2024 Tuesday		PHAR 223		EEEG 320 MEEG 317 MEEG 309 COMP 314 GEOM 313 CIEG 309 CIEG 341 CHEG 305 ENVE 303 BIOT 306 ESEE 331



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Controller of Examinations



KATHMANDU UNIVERSITY

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Dhulikhel, P.O. Box 6250, Kathmandu, Nepal

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July 17, 2024

NOTICE

This is to notify the End-semester Examinations of **B.E./B.Sc./B.Tech./B.Pharm./B.Arch.** Programs of School of Engineering and School of Science have been rescheduled from July 26, 2024 as per the request made by the deans of both schools.

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|----|----------------------|------------------------------------|
| 1. | Examination Schedule | : As per attached sheets (4 pages) |
| 2. | Examination Time | : 11:00 am to 2:00 pm |
| 3. | Examination Centre | : Kathmandu University, Dhulikhel |

Prof. Ram Prasad Ghimire, PhD
Controller of Examinations


Note:

*Examinations will be conducted as per this schedule and under no circumstance the dates and times will be changed unless the University published prior notice.
In case of overlapping exam schedule or missing of any subject in the exam schedule, immediately contact the exam section.*

August 1, 2024 Thursday			EEEG 309 MEEG 315 GEOM 303 CIEG 303 CHEG 302 CIEG 332 ESEE 305 ENVE 301 MATH 304 PHAR 319 BIOT 302 COMP 307	
August 2, 2024 Friday	EEEG 211 MEEG 217 MATH 205 CHEG 201 ARCH 203 MATH 206 BIOT 202 MATH 201 ENVE 204 BIMA 201			
August 4, 2024 Sunday		PHAR 214		ETEG 303 ETEG 301 MEEG 318 COMP 343 GEOM 319 CIEG 310 CHEG 310 CIEG 342 ESEE 306 BIOT 313 MATH 325
August 5, 2024 Monday			EEEG 314 COEG 304 GEOM 317 CIEG 304 CHEG 303 ARCH 305 ESEE 303 PHAR 320 BIOT 309 COMP 316	
August 6, 2024 Tuesday	EEEG 207 MEEG 213 COMP 202 GEOM 205 CIEG 202 ARCH 202 BIOT 203 CHEM 215			



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August 8, 2024 Thursday		CHEM 212		ETEG 321 COEG 301 MGTS 303 COMP 304 COMP 341 MATH 322 GEOM 307 CIEG 313 CHEG 312 BIOT 312 ESEE 309
August 9, 2024 Friday			ESEE 301 MGTS 305 PHAR 321 BIOT 311 CIEG 306	
August 11, 2024 Sunday	EEEG 213 MEEG 216 MCSC 201 GEOM 202 CIEG 203 CIEG 231 ESEE 211 BIOT 205			
August 12, 2024 Monday		PHAR 221		EPEG 301 EPEG 315 COMP 306 COMP 323 GEOM 306 CIEG 312 CHEG 313 BIOT 315 ESEE 310 ARCH 331
August 13, 2024 Tuesday			EPEG 317 MEEG 303 MEEG 301 COMP 315 GEOM 318 CIEG 305 CHEG 311 CIEG 331 ESEE 304 PHAR 322 MEEG 306	
August 15, 2024 Thursday	ENVS 206 BIOT 208 CIEG 232 BICP 201 ENVS 201 MATH 208 CIEG 201 EEEG 204			

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August 16, 2024 Friday		PHAR 224		ENVS 302 ENVE 304 BIOT 314 GEOM 310 CIEG 314 CHEG 325 COMP 409 COMP 307 MEEG 306
August 18, 2024 Sunday			CIEG 302 ESEE 308 CHEG 322 ENVE 302 MATH 302 COMP 342 INAN 301	COMP 342
August 20, 2024 Tuesday	MATH 207 CHEM 207 BIOT 209 MATH 204			
August 22, 2024 Thursday				INAN 301
August 23, 2024 Friday			MGTS 301	MGTS 301



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