



ANJUMAN-I-ISLAM'S

AIKTC KALSEKAR TECHNICAL CAMPUS

INNOVATIVE TEACHING EXUBERANT LEARNING

School of Architecture

School of Engineering & Technology

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoP/ACKN/QUES/2017-18/

Date: 31/12/18

School: SoP-CBCS

Branch: SoP

SEM: II

To,
Exam Controller,
AIKTC, New Panvel.

Dear Sir/Madam,

KT

Received with thanks the following [✓]Semester/Periodic question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of Copies
			SC	HC	
1	APP - II	BPH_C_201_T		✓	02
2	Biochemistry – II	BPH_C_202_T		✓	02
3	Pharmacognosy – I	BPH_C_203_T		✓	02
4	Hospital Pharmacy and Drug Store Management	BPH_C_204_T		✓	02
5	Environmental Science	BPH_C_205_T		✓	02

Note: SC – Softcopy, HC - Hardcopy

(Shaheen Ansari)
Librarian, AIKTC

(Time: 3 Hours)

(Total marks: 80)

N.B.: (1) All questions are compulsory

(2) Figures to right indicate full marks

Q 1 A. Answer the following:

16 M

- i) Enlist the vital centers located in medulla oblongata.
- ii) Enumerate the cells and secretions of pancreatic islets.
- iii) Define: a) Vital capacity b) Tidal volume
- iv) What is cerebral hypoxia?
- v) Write a note on iris.
- vi) Give the symptoms of myxoedema.
- vii) Define cell injury.
- viii) Enlist the causes of COPD

Q 1 B. Answer the following:

4 M

- i) Name the auditory ossicles.
- ii) _____ enzyme is responsible for degradation of adrenaline.
- iii) What is saltatory conduction of nerve impulse.
- iv) Give the functions of nose.

Q 2 A. Answer any two of the following

8 M

- i) Elaborate on types of cellular adaptations.
- ii) Differentiate between apoptosis and necrosis.

Q 2 B. Answer any one of the following

4 M

- i) Give an account on carcinogenesis.
- ii) Discuss different carcinogens.

Q 2 C. Answer any one of the following:

4 M

- i) Explain the harmful effects of X rays.
- ii) Give the biological effects of nuclear radiation.

Q 3 A. Answer any two of the following:

8 M

- i) Give the functions of hypothalamus.
- ii) Draw a well labeled diagram of cerebrum. Add a note on blood brain barrier.

iii) Describe the neuroglia of the CNS.

Q 3 B. Write a short on any one of the following: 4 M

- i) Parkinson's disease
- ii) Schizophrenia

Q 4 A. Answer any two of the following: 8 M

- i) Describe the structure of larynx.
- ii) Explain the control and regulation of respiration.
- iii) Discuss the mechanism of respiration.

Q 4 B. Write a short note on any one of the following: 4 M

- i) Asthma
- ii) Emphysema

Q 5 A. Answer any two of the following: 8 M

- i) Explain formation, storage and release of thyroid hormones.
- ii) Write a note on renin, angiotensin and aldosterone system.
- iii) What are the different trophic hormones? Explain their physiological actions.

Q 5 Answer any one of the following: 4 M

- i) Differentiate between type I and type II diabetes mellitus.
- ii) Discuss the pathophysiology of Cushing's syndrome.

Q 6 A. Answer any two of the following: 8 M

- i) Discuss in detail accessory structure of eyes.
- ii) Explain physiology of equilibrium.
- iii) What are the functions of skin?

Q 6 B. Answer any one of the following: 4 M

- i) Discuss neurotransmitters and receptors autonomic nervous system.
- ii) Compare and contrast between adrenergic and cholinergic system.

11/12/2018

Gmail - Correction in :1P00132 - F.Y. B. of Pharmacy QP CODE : 38121



IMRAN SHEIKH <imranaikt@gmail.com>

Correction in :1P00132 - F.Y. B. of Pharmacy QP CODE : 38121

1 message

Mon, Nov 12, 2018 at 3:05 PM

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To: imranaikt@gmail.com



University of Mumbai

Correction in : 1P00132 - F.Y. B. of Pharmacy (Sem II)(Choice Based) / 65801 - Anatomy, Physiology and Pathophysiology - II.
QP CODE : 38121
Q. 2 A : Answer any one for 4 mks

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SEM - II CBCS

Q.P. Code: 37318

(3 hours)

Total Marks: 80

N.B.: All questions are compulsory

- Q.1** (a) _____ ATP are formed when two moles of glucose are consumed in glycolysis. 1
- (b) Write two names of chemical uncouplers of oxidative phosphorylation. 1
- (c) Define glycogenolysis. 1
- (d) Enlist precursors of pyrimidine synthesis. 1
- (e) Name the two enzymes of glyoxalate cycle which are not present in vertebrates. 2
- (f) Enlist the components of ETC 2
- (g) Enlist four major substrates for Gluconeogenesis. 2
- (h) Calculate number of ATP formed on β -oxidation of Oleic acid 2
- (i) Name the two pathways employed for synthesis of eicosanoids. 2
- (j) Give names of two enzymes involved in the elongation of fatty acid chain. 2
- (k) Enlist names of enzymes responsible for conversion of IMP to AMP 2
- (l) Mention name of an antifungal drug and the enzyme which is inhibited by the drug in cholesterol synthesis. 2

- Q. 2** (a) Give the names and structures of substrate and product, coenzyme for the following enzyme catalysed reaction (**Any four**): 8

- i. Citrate synthase
- ii. Glucose-6-phosphate dehydrogenase
- iii. Δ^3, Δ^2 enoyl CoA isomerase
- iv. Enoyl ACP hydratase
- v. Orotidylic acid decarboxylase

- (b) Give name of the enzyme catalysing the following conversion: 4
- i. Fumarate to malate
 - ii. Fructose-6-phosphate to fructose 1,6- biphosphate
 - iii. Xanthosine monophosphate to GMP
 - iv. Pyruvate to oxaloacetate.

- Q. 3** (a) Write reactions for conversion of α -ketoglutarate to fumarate in Kreb cycle along with structures, enzymes, coenzymes. Also indicate whether reaction is reversible or irreversible. 3

- (b) Discuss Glycogenesis 3
- (c) What is ketogenesis? Give structures of the important products formed in the process. 2
- (d) Write reactions & enzymes involved for conversion of arachidonate to PGH₂ 2
- (e) Indicate reaction with enzyme for IMP synthesis from Aminoimidazole carboxamide ribosyl-5-phosphate. 2

- Q. 4** (a) Explain schematically reactions of ETC. 3
(b) Give series of reactions for conversion of Acetyl-CoA to 3-ketoacyl enzyme in the biosynthesis of fatty acids 3
(c) Write structures of reactants and products for the reaction catalyzed by transaldolase 2
(d) Write a note on Carnitine carrier system. 2
(e) What is Salvage pathway? How it is different from de Novo synthesis of nucleotide 2
- Q. 5** (a) Discuss Glyoxylate cycle 3
(b) Explain β -oxidation of myristic acid along with names of all enzymes, coenzymes & co-factor involved in it. 3
(c) Define Oxidative phosphorylation. Indicate sites of oxidative phosphorylation in ETC. 2
(d) Give reaction catalyzed by HMG CoA synthase. 2
(e) Indicate name of enzyme involved and reaction for formation of orotic acid from dihydroorotic acid. 2
- Q. 6** (a) Discuss Malate- aspartate shuttle. 3
(b) How will you convert Squalene to cholesterol indicate reactions for it. 3
(c) Give reaction to depict splitting phase in Glycolysis. 2
(d) Depict the synthesis of Leukotriene A₄ from arachidonate. 2
(e) Give the name of drug which inhibits HMG CoA reductase and thymidylate synthase. 2

SEM-II CBCS

Q.P. Code : 04551

07/12/2018

[Time: 3 Hours]

[Marks:80

Please check whether you have got the right question paper.

- N.B:
- 1) All questions are compulsory
 - 2) Illustrate answers with sketches and structures wherever required.
 - 3) Answers to sub questions must be written together.

- Q. 1 (a) State whether True/False and justify all the following statements, giving suitable examples:- 8
- i) Acacia is an example of mineral origin crude drug.
 - ii) Glycerol is used as a clearing agent in microscopic examinations.
 - iii) Starch grains are produced in mitochondria.
 - iv) Saponification test is used to differentiate between fixed and volatile oils.
 - v) Coppicing method is used for collection of root-based crude drugs.
 - vi) Cotton is a sclerenchymatous fibre.
 - vii) Guar gum is a pathological product.
 - viii) Abrin is used for protein digestion.
- (b) Answer the following :- 12
- i) Give merits and demerits of taxonomical method of classification of crude drugs.
 - ii) Enlist the chemo microscopic of reagents used in examination of seed-based drugs.
 - iii) Differentiate between bark and wood. Give suitable examples.
 - iv) Write a note on coumarins.
 - v) Give two examples of natural pest control agents, with their biological source.
 - vi) Write a note on keiselguhr.
- Q. 2 i) Explain the status and significance of pharmacognosy in Ayurveda and aroma therapy. 4
- ii) With the help of suitable labelled diagrams, explain the salient histological features of a typical leaf based drug. 4
- iii) What are oils? Give the source, preparation constituents and uses of castor oil. 4
- Q. 3 i) Giving suitable examples, write a note on simple fruits. 4
- ii) What are tannins? Give complete classification of tannins with suitable examples, chemical tests and their applications. 4
- iii) Give complete pharmacognostic account of a gum of microbial origin. 4
- Q. 4 i) Give one example, important biological activity and basic chemical nucleus for : 4
- a) Purine or pyridine-piperidine type alkaloids
 - b) Anthraquinone or cyanogenetic glycosides.
- ii) Discuss the factors affecting cultivation of crude drugs. 4
- iii) Give source, preparation and uses of 'bromelain' and 'casein'. 4

TURN OVER

- Q. 5 i) With suitable examples, give complete chemical classification of triterpenoids. 4
ii) Write a note on any one protein fibre. 4
iii) Give biological source, chemical constituents and uses of 'Shatavari' and 'Kalmegh'. 4
- Q. 6 i) Write a note on unorganized drugs. 4
ii) a) Give the source and uses of serratiopeptidase
b) Give source, constituents and uses of amla.
iii) Give complete pharmacognostic account of any two oils of animal origin. 4

12/7/2018

Gmail - Correction in QP Code : 4551



IMRAN SHEIKH <imranaikt@gmail.com>

Correction in QP Code : 4551

1 message

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To: imranaikt@gmail.com

Fri, Dec 7, 2018 at 3:23 PM



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Correction in 1P00132 - F.Y. BACHELOR OF PHARMACY (Choice Base) SEMESTER - II / 65803 - Pharmacognosy-I. QP Code : 4551

Read as Q.5.1. With suitable examples, write a note on steroids and triterpenoids.
instead of Q.5.1. With suitable examples , give complete classification of triterpenoids

instead of this

Q.5.1. write a note on steroids and triterpenoids *fsheik*

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SEM-II CBCS
19/11/18

Q. P. Code : 36097

Time : 3 hrs

Marks : 80

- Q.1 (a) Give organisational structure of hospital. List any two functions of hospital. 2
(b) Comment on hospital outpatient pharmaceutical services. 2
(c) Define hospital formulary. Enlist its advantages. 2
(d) Comment on medication errors in hospital. 2
(e) Write note on 'Drug utilization review'. 2
(f) Describe the steps in manufacture of large volume parenteral in hospital. 2
(g) Define sterilisation. List factors affecting growth of microorganisms. 2
(h) State advantages and disadvantages of starting a new drug store. 2
- (i) What are the points to be considered for formulating buying policies? 2
(j) Elaborate on role of pharmacist in avoiding frauds in a drug store. 2
- Q.2 (a) Discuss in detail the control procedures for dispensing of controlled substances. 4
(b) Elaborate on the role of PTC in Drug safety. 4
(c) Elaborate on the requirements to be fulfilled by a person to start wholesale or retail sale of drugs. 4
- Q.3 (a) Write note on Radiopharmaceuticals 2
(b) Elaborate on sterilization of mattresses and utensils 4
(c) Discuss role of window display in sales promotion of retail drug store 4
(d) Write advantages of Systematic Want Book method over want book 2
- Q.4 (a) Describe the role of pharmacist in preparation and implementation of budget for hospital pharmacy 2
(b) How is Hospital formulary prepared? Enlist the contents of HF. 4
(c) Explain services rendered by wholesaler to retailers 4
- OR**
- Enlist different forms of business organizations and explain any one in detail. 4
(d) Enlist different insurance policies. Give the significance of the insurances. 2

- Q. 5. (a) Write about drug basket method of dispensing to in -patients. 2
(b) Write a short note on composition of PTC. 2
(c) Write a short note on advantages and functions of CSSR. 4
(d) Explain VED and EOQ method of inventory control for the drug store. 4

OR

- (d) State importance of inventory control. Elaborate on open to buy budgeting method of inventory control. 4

- Q.6 (a) Explain the hospital pharmacy department organisational chart. 4
(b) Explain about the use of paper as packaging material for sterilization. 2

OR

- (b) Write about use of metal drums as packaging material for sterilization. 2
(c) Enlist different factors influencing drug distribution channels. 2
(d) Comment on use of computers in drug store. 4

SEM - II CBCS
26/11/2018

Q. P. Code: 40354

Duration: 3 Hours Marks:80

1. All questions are compulsory
2. Draw diagrams wherever necessary
3. Figures to the right indicate full marks.

- 1 (i) Define 'Pollution'. 1
(ii) Define 3 R's of control measures. 1
(iii) Give two examples of Recycle 1
(iv) Define Noise Pollution. 1
(v) Give a schematic representation of Carbon Cycle 2
(vi) Name two outdoor air pollutants and their effects. 2
(vii) Define Biological Oxygen Demand. State its significance 2
(viii) What are the major consequences of deforestation 2
(ix) State the Importance of Environmental legislations. 2
(x) Compare the conventional sources of energies against hydropower as a renewable source 2
(xi) Explain the concept of Municipal Solid Waste. 2
(xii) Enlist the devices used for control of Air Pollution 2
- 2.(i) What are solar cells. With a neat labelled sketch, explain the principle and working of Photo Voltaic Cell. 4
(ii) Explain the structure and functions of MoEF. 4
- OR
- (ii) Discuss the penalties and punishment under Environmental Protection Act
(iii) Enlist and explain the four stages of disaster management. 4
- 3.(i) Describe ecological pyramids. Explain with examples why some of these pyramids are upright while others are inverted in different ecosystems. 4
(ii) What is wind energy and explain the working of wind turbine 4
(iii) Give an account of Indoor Air Pollution 4
- OR
- (iii) Write a note on Carbon Credits
- 4.(i) Discuss causes, effects and methods of treatment of Electronic Pollution 4
(ii) Give the roles and duties of Central Pollution Control Board 4
(iii) Describe Ganga action plan
- OR
- (iii) Explain "Taj Mahal" as a case study in environmental legislation 4
5. (i) Explain the causes, effects and any one control measure of Solid Waste Management 4
(ii) What is Geothermal energy and explain energy generation using the same 4
(iii) Discuss the major environment Impact of deforestation 4
- OR
- (iii) Being a responsible citizen how we can conserve natural resources. Explain with examples 4

6. (i) What is EIA. How are the projects under EIA classified. Give a schematic representation of Environmental Clearance Process. 4
- (ii) Explain "Ozone layer depletion" causes, effects and preventive measures. 4
- OR
- (ii) Discuss the role of technology in environment and health
- (iii) What are Green Buildings. State the merits and demerits of Green Buildings 4
