

**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JANUARY 2025
PHARMACOLOGY (QP CODE 610)**

Time: 3 Hours

Max marks: 80 M

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.

- ii) Draw diagram wherever necessary.
- iii) Answer to the point for objective type.

SECTION -A

6X5=30 M

Long Essay (Answer any six)

1. What is biotransformation? Discuss on conjugation reactions.
2. Enumerate the various pharmacological actions of acetylcholine.
3. Discuss the pharmacological actions of morphine.
4. Explain the therapy of shock.
5. Describe the physiological role of thyroid hormones.
6. Classify antimalarial drugs. Give the actions and adverse effects of Chloroquine.
7. Classify semisynthetic penicillins. Explain mechanism of action, uses, and adverse effects of amoxicillin.

SECTION -B

10X3=30 M

Short Essay (Answer any ten)

8. Give the advantages and disadvantages of sublingual route of drug administration.
9. Classify the nonsteroidal anti-inflammatory drugs with examples.
10. Give the classification of anticonvulsant drugs.
11. Write the actions and uses of digoxin.
12. Enumerate the functions of vitamin B-12.
13. What are expectorants? Explain them with examples.
14. Give the actions, uses and adverse effects of omeprazole.
15. Give the classification of diuretics.
16. Explain the actions and uses of vitamin D.
17. Mention the physiological role of prostaglandins.
18. Discuss the mechanism of action, adverse effects and uses of Albendazole.

SECTION -C

20X1= 20M

Objective type (Answer all questions)

19. Define bioavailability.
20. What is synergism?
21. Define apparent volume of distribution.
22. Give the two uses of Neuro Muscular Junction blockers.
23. Mention the two uses of local anaesthetics.
24. What is the action of adrenaline on urinary bladder?
25. Give the two uses of Mydriatics.
26. Name one prostaglandin analogue used in the treatment of glaucoma.
27. Give the uses of sedatives.
28. Name one antipsychotic drug belongs to phenothiazine derivatives.
29. Give the two uses of oral anticoagulants.
30. Name the different types of biologicals.
31. _____ is an example of gaseous anaesthetic agent.
32. _____ is an antidiuretic hormone.
33. In the body 5-hydroxytryptamine is synthesized from _____ amino acid.
34. Ondansetron is used as _____.
35. Match the following

A

- 1) Streptokinase
- 2) Bacillus clausii
- 3) Omalizumab
- 4) Aldosterone

B

- a) used to treat allergic asthma
- b) mineralocorticoid
- c) antibiotic
- d) probiotic
- e) thrombolytic
- f) glucocorticoid

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**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JANUARY 2025
COMMUNITY PHARMACY AND MANAGEMENT**

Time: 3 Hours

(QP CODE 620)

Max marks: 80 M

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.
 ii) Draw diagram wherever necessary.
 iii) Answer to the point for objective type.

SECTION -A**Long Essay (Answer any six)****6X5=30 M**

1. What are dispensing errors? How will you minimize them? Discuss.
2. Discuss the patient counseling points for AIDS.
3. How to advise the patients for preventive measures and OTC medication treatments for constipation?
4. Describe the role of pharmacist in OTC medication dispensing.
5. Discuss the process of vendor selection.
6. Explain the inventory control methods in pharmacy operations.
7. Describe the design of a typical pharmacy Layout.

SECTION -B**Short Essay (Answer any ten)****10X3=30 M**

8. Narrate International scenario in development of community pharmacy practice.
9. What are the WHO recommendations of good pharmacy practice?
10. What are the requirements of legal prescriptions?
11. Write a short note on verbal communication skills.
12. What are the benefits of patient counseling?
13. Explain the importance of health screening services at community pharmacy giving examples.
14. List out the recommendations of Ahoja Committee.
15. List out the commonly used branded OTC medicines in India.
16. Give the scope of Community pharmacy.
17. Write a short note on m health.
18. Discuss the factors to be considered in site for a community pharmacy.

SECTION -C**Objective type (Answer all questions)****20X1= 20M**

19. Name any two retail chain pharmacies in India.
20. Write any two healthcare needs.
21. Write any two professional responsibilities.
22. Give any two examples of common auxiliary labels.
23. Give the qualities of good drug dispenser.
24. Write two benefits of a good interaction between pharmacist and their patients.
25. Write the types of communications.
26. Name the methods of Patient Counseling.
27. What is Medication Adherence?
28. Name two therapy related factors influencing Medication Non-Adherence.
29. How to overcome Medication Non-Adherence?
30. Glycated hemoglobin test (HbA₁C) is used diagnose -----
31. Define screening.
32. Self selection medicines are-----
33. Write any two risks for OTC medicines.
34. List any two significance of OTC products.
35. Match the Following

A

1. Prescription Handling
2. Chain Pharmacy.
3. B₂G
4. Vendor

B

- a) Supplies goods
- b) Community pharmacy management.
- c) A type of community pharmacy
- d) Business to the government
- e) B₂P



**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JANUARY 2025
BIOCHEMISTRY AND CLINICAL PATHOLOGY
(OP CODE 630)**

Time: 3 Hours

Max marks: 80 M

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.
ii) Draw diagram wherever necessary.
iii) Answer to the point for objective type.

SECTION -A

Long Essay (Answer any six)

6X5=30 M

1. Write the qualitative tests of carbohydrates.
2. Discuss in detail protein deficiency diseases.
3. Discuss the structure and chemical properties of triglycerides (oils and fats).
4. Discuss the factors affecting enzyme action.
5. Write the source, chemical nature, functions, RDA and deficiency disorders of vitamin D
6. Write TCA cycle and its significance.
7. Write ornithine cycle and its significance.

SECTION -B

10X3=30 M

Short Essay (Answer any ten)

8. Define and classify carbohydrates with examples. Write structure of fructose.
9. Biological role of proteins.
10. Functions of DNA.
11. Define Lyase, Isomerase and Ligase with one example each.
12. Define and classify vitamins with examples.
13. What is a) Oxidative phosphorylation b) GTT c) Glycolysis?
14. Write the energetics of beta oxidation of Palmitic acid.
15. Write the deficiency disorders of calcium, fluoride and zinc
16. Composition of ORS.
17. Functions of Kidney.
18. Discuss the types of anaemia.

SECTION -C

20X1= 20M

Objective type (Answer all questions)

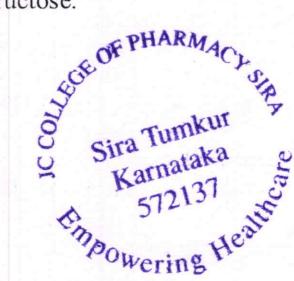
19. What is Biuret test?
20. What is prosthetic group? Give example.
21. Give two examples for enzyme inhibitors.
22. Which vitamin serves as an antioxidant?
23. Mention disorders of ammonia metabolism.
24. Name the ketone bodies.
25. What is genetic engineering?
26. What is transamination?
27. Name the adrenal gland hormones that regulate blood glucose levels.
28. What is lipolysis?
29. Name the enzyme that catalyzes the oxidation of pyruvate to lactate.
30. Importance of GFR.
31. _____ discovered cell.
32. Fatty acid present in butter is _____.
33. _____ carries genetic information from DNA for protein synthesis.
34. _____ is coenzyme of thiamine.
35. Match the following

A

- 1) Bial's test
- 2) ATPs from complete oxidation of Glucose
- 3) Iodine
- 4) Sodium

B

- a) 8 ATPs
- b) Monosaccharide's
- c) Macro mineral
- d) Pentose
- e) Goitre
- f) 38 ATPs



**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JANUARY 2025
PHARMACOTHERAPEUTICS
(QP CODE 640)**

Time: 3 Hours

Max marks: 80 M

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.
 ii) Draw diagram wherever necessary.
 iii) Answer to the point for objective type.

SECTION -A**Long Essay (Answer any six)****6X5=30 M**

1. What is MI? write the etiopathogenesis and pharmacological treatment of MI
2. Define and classify diabetes. Write the long term complications of diabetes.
3. Discuss the pharmacological treatment of Epilepsy.
4. What is stroke? Discuss management of stroke.
5. Define and classify GERD. Discuss the pharmacological treatment of GERD.
6. Write the etiopathogenesis, clinical manifestations and pharmacological treatment of UTI.
7. Discuss the life cycle of malarial parasite.

SECTION -B**Short Essay (Answer any ten)****10X3=30 M**

8. Write the advantages of STGs to various health care professionals.
9. Define and classify Hypertension. Explain the non-pharmacological treatment of the same.
10. Discuss etiopathogenesis and clinical manifestations of Asthma.
11. Write the non-pharmacological management of diabetes.
12. Define migraine and write the pathophysiology.
13. Explain the pathogenesis of peptic ulcer.
14. Define erythropoiesis. Mention different types of anaemia.
15. Classify drugs used in treatment of T.B.
16. Discuss in brief pharmacological treatment of R.A.
17. Write the clinical manifestations of Anxiety.
18. Explain etiopathogenesis of CHF.

SECTION -C**Objective type (Answer all questions)****20X1= 20M**

19. Give example for irrational use of medicines.
20. Name the drugs used in hyperlipidemia.
21. Name the drugs used in Asthma.
22. Mention the normal blood glucose levels.
23. Enumerate the drugs used to treat Alzheimer's disease.
24. Give example for drugs used in acid suppression therapy.
25. Write the functions of erythrocytes.
26. What are opportunistic infections? Give examples.
27. What is Gonorrhoea?
28. Write the etiopathogenesis of R.A.
29. Write the clinical manifestations of osteoarthritis.
30. Name the drugs used in treatment of Scabies.
31. Atopic eczema presents scaly patches at _____
32. Risperidone is used to treat _____
33. Hirsutism is symptom of _____
34. Selective serotonin reuptake inhibitors are used to treat _____
35. Match the following

A

- 1) SNRIs
- 2) Cholinergic agents
- 3) DOTS therapy
- 4) Spasmodic pain

B

- a) Miotics
- b) Duloxetine
- c) Dysmenorrhoea
- d) T.B
- e) Psychosis
- f) Asthma

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**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JANUARY 2025
HOSPITAL AND CLINICAL PHARMACY (QP CODE 650)**

Time: 3 Hours

Max marks: 80 M

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.
 ii) Draw diagram wherever necessary.
 iii) Answer to the point for objective type.

SECTION -A

Long Essay (Answer any six)

1. Describe the objectives and composition of Pharmacy and Therapeutic committee.
2. What is Inventory Control? Explain in detail “Economic order quantity” and Inventory turnover”
3. Explain in detail handling and disposal of Expired drugs.
4. Explain in detail the drug distribution to Ambulatory patients.
5. Describe the contents of a typical medication interview form.
6. Explain the different sources of drug information in detail.
7. Explain the clinical laboratory tests and their significance for complete blood count.

6X5=30 M

SECTION B

Short Essay (Answer any ten)

8. Explain the role of Pharmacist in preventing antimicrobial resistance.
9. Give the salient features of FIP/WHO, GPP guidelines.
10. Explain six R's of scientific purchasing of Pharmaceuticals.
11. Write a note on distribution of narcotics and psychotropic substances in hospital.
12. Explain in short the concept of TPN.
13. What is EHR? Give its benefits.
14. Explain drug induced renal disorders.
15. Write a note on Home medication Review.
16. Explain the clinical significance of Thyroid Function tests.
17. Describe in short the general treatment for poisoning.
18. Explain in brief the different types of medication errors.

10x3=30M

SECTION C

Objective type (Answer all questions)

19. Define Hospital formulary.
20. Define High – risk drugs.
21. Define chelating agents with examples.
22. Define pharmacovigilance.
23. Define drug interactions.
24. Give two examples of reserved antibiotics.
25. Expand CLAUDE.
26. Meaning of the Latin term – “**Guttae**”.
27. What are IV admixtures ?
28. Expand – **PvPI**
29. Who developed modern hospital Pharmacy?
30. Write the meaning of prefix **baro**
31. An apparatus for measuring volume of air is -----
32. Normal range of serum creatinine in men is -----
33. ----- number of pharmacist required for 200 bed capacity hospital.
34. ----- is an instrument that measures radiation exposure.
35. Match the following

20x1=20M

A

1. Laminar air flow hood
2. Amlodipine
3. ACME insight
4. Plethysmography

B

- a. Antibiotic
- b. PFT
- c. LFT
- d. LASA Drugs
- e. Aseptic technique.
- f. Computer software.

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GOVERNMENT OF KARNATAKA BOARD OF EXAMINING AUTHORITY
 D. Pharm Part-II Examination (ER-2020) - JANUARY- 2025
 PHARMACY LAW AND ETHICS (QP CODE 660)

Time: 3 Hours

Max marks: 80 M

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.
 ii) Draw diagram wherever necessary.
 iii) Answer to the point for objective type.

SECTION -A

Long Essay (Answer any six)

1. Explain Schedule N of D & C Act, 1940
2. Write the constitution of DTAB
3. Write on import and export of drugs and medical devices
4. Explain the phases of Clinical trials
5. a) Define Pharmaceutical Ethics b)State Pharmacist's Oath
6. Write briefly on the First Register of Pharmacist
7. a) Write the difference between wholesaler and retailer
 b) Explain the calculation of ceiling price of scheduled formulation

6X5=30 M

SECTION -B

Short Essay (Answer any ten)

8. Define Advertisement and Magic remedies
9. Define the terms a) Narcotic drug b) Opium c) Coca derivative
10. Write short note on breeding and stocking of animals
11. What are the conditions for possession and sale of poison under the Poisons Act, 1919?
12. Explain the circumstances under which pregnancy of woman can be terminated
13. Write the qualification and duties of Government Analyst
14. Write the sampling procedure adopted by Drugs Inspector
15. Write the constitution and functions of State Pharmacy Council
16. Explain Indian Pharmacopoeia Commission
17. Explain wholesale business as mentioned in Good regulatory practices (GRP)
18. Define brand and write the objective of DPCO Act, 2013

10X3=30 M

SECTION -C

Objective type (Answer all questions)

19. Expand the term NDRF
20. Who is a Consumer?
21. Define biomedical waste
22. What is FSSAI?
23. Define blood bank
24. Define Essential medicine as per WHO
25. Define bioethics
26. Expand the term NPPA
27. Write the objective of Good Regulatory Practice
28. Define Psychotropic substance
29. What is Schedule C & C1
30. Write the full form of ANDA
31. _____ is the chairperson of National Council for Clinical Establishment
32. Prevention of Cruelty to Animals Act was passed in the year _____
33. Government of India appointed Drugs Enquiry Committee under the chairmanship of _____
34. The blood bank unit shall have a minimum floor area of _____
35. Match the following.

20X1= 20M

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A	B
1) Drugs and Magic Remedies Act	a) Medical device
2) Biomedical waste disposal	b) EUA
3) Ventilator	c) Schedule O
4) Schedule X	d) 1954
	e) Habit forming and narcotics drugs list
	f) Schedule I
