

**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JULY 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

Long Essay (Answer any six)

6X5=30 M

1. Explain the different phases involved in biotransformation of drugs with examples
2. Explain the pharmacological actions and therapeutic uses of Physostigmine
3. Classify antipsychotics with examples. write the mechanism of action, pharmacological actions and uses of Haloperidol
4. Explain pharmacological actions and therapeutic uses of adrenaline
5. Describe the pharmacology of furosemide
6. Classify Antiemetics with examples, Write the pharmacology of Ondansetron
7. Describe the mode of action, pharmacological action and uses of Albendazole

SECTION -B

Short Essay (Answer any ten)

10X3=30 M

8. Explain the mode of action.
9. Describe the mechanism of action and antibacterial spectrum of Cefpodoxime
10. Describe the functions of Vitamin B12
11. Write the mechanism of action and uses of Cyclophosphamide
12. Explain mechanism of action and adverse effects of anticoagulants
13. Classify antimalarials with examples
14. Write the pharmacological actions and uses of oxytocin
15. Classify anticonvulsants with examples
16. Write a short note on General anesthetics
17. Describe the mechanism of action and uses of amitriptyline
18. Define and Classify NSAIDs with examples

**SECTION -C**

Objective type (Answer all questions)

20X1= 20M

19. Define expectorant
20. Give two uses of ciprofloxacin
21. Mention the drugs used in the treatment of typhoid
22. What are purgatives give example
23. Write the two uses of aspirin
24. Give two major ADRs of propranolol
25. What are nootropic agents
26. Give two examples of centrally acting muscle relaxants
27. Nitroglycerine is a ----- agent
28. Dry cough is an ADR of which antihypertensive agent
29. Define anorexia and tinnitus
30. ----- agents dilate the pupil of eye
31. Mention an two antiarrhythmic agents
32. Pantaprazole acts by inhibiting ----- enzyme
33. Name any two anti-atherosclerotic agents
34. Define Synergism
35. Match the following

A

- 1) Penicillin G
- 2) Morphine
- 3) Salbutamol
- 4) Acetazolamide

B

- *
- a) Antiemetic
 - b) Bronchodilator
 - c) Anaphylaxis
 - d) Euphoria
 - e) Glaucoma
 - f) Gout

**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JULY 2025
COMMUNITY PHARMACY AND MANAGEMENT
(QP CODE 620)**

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 dispensing errors? Enlist the different types and causes of dispensing errors.
2. Discuss the patient counselling points for hypertension.
3. Explain the role of pharmacist in pain management.
4. Explain the common treatment options available at community pharmacy for Skin disorders.
5. What is Inventory control? Explain the different methods of inventory control.
6. Define SOP. Write the SOP for procurement and receiving of medicines.
7. Write in detail about the legal requirements to set up a community pharmacy.

SECTION -B

Short Essay (Answer any ten)

10X3=30 M

8. Write in brief about the developmental scenario of community pharmacy in India.
9. Explain the structural guidelines of a good pharmacy practice.
10. Explain the process of dispensing.
11. Explain the various barriers of verbal communication.
12. Write the patient counselling points for Asthma.
13. Explain the screening of hypertension for its early diagnosis.
14. Give the self-care advice for patients suffering from fever.
15. Write the patient counselling points for Diabetes Mellitus.
16. Write a short note on digital health.
17. Write a note on audits in pharmacies.
18. Write the different aspects to consider while choosing a vendor

**SECTION -C**

Objective type (Answer all questions)

20X1= 20M

19. Write any two Do's & Dont's while dispensing OTC Medicines
20. Name any four online pharmacies in India.
21. What is ancillary label?
22. Name the types of communication.
23. What is patient package insert?
24. Mention any two reasons for poor medication adherence
25. What is the importance of routine screening of patients?
26. What are the problems of medication non adherence?
27. Write any two advices for self-care during sore throat.
28. What is self medication?
29. Write any four counselling points for tuberculosis.
30. Define Procurement.
31. Mammogram is the screening test for -----.
32. RBS stands for -----.
33. GPP stands for -----.
34. ----- refers to extent of persons behavior in taking medication as per the recommendation of prescriber.
35. Match the Following:

A

1. SOP
2. PIL
3. Mast cell stabilizers
4. Athlete's foot

B

- a) Pharmacist information leaflet of Salicylic acid.
- b) Asthma.
- c) Clotrimazole.
- d) Quality Assurance.
- e) Patient Information leaflet.
- f) Acetazolamide

**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JULY 2025
BIOCHEMISTRY & CLINICAL PATHOLOGY (QP 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. Define and classify carbohydrates with examples and add a note on their biological significance
2. Define and classify proteins with examples
3. Define and classify lipids with examples and enlist their functions
4. Describe the effect of substrate concentration, temperature and pH on enzyme activity
5. Explain chemistry, functions, deficiency symptoms and daily requirements of Vitamin D
6. Describe the reaction sequences of Citric acid cycle and add a note on its bioenergetics
7. Explain biological oxidation and oxidative phosphorylation

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

8. Write any two chemical reactions of glucose
9. Define essential and non-essential amino acids with examples
10. Write a short note on nucleic acid bases
11. Write the pharmaceutical applications of enzymes
12. Which is the coenzyme form of Riboflavin? Write any two reactions in which its act as a coenzyme
13. Write the mitochondrial reactions of beta oxidation
14. Write about glycogen storage diseases
15. Write the functions, deficiency diseases and daily requirements of Chlorides
16. How is water balance maintained in human body
17. Explain any one liver function test
18. Enlist ketone bodies and write qualitative test for the same

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

19. Which is known as power house of the cell
20. Write the structure of sucrose
21. Name any two amino acids containing sulphur
22. Write the structure of alcohol part of triglycerides
23. Define glycosuria
24. List the abnormal constituents of urine
25. Define transamination
26. Write the functions of calcium mineral
27. Write the electrolytes present in ICF
28. Define clearance test
29. Write one qualitative test for Bile salts
30. Write the biological significance of TCA cycle
31. Adenine combined with ribose sugar gives ----- nucleotide
32. Non-protein part of enzyme is -----
33. ----- inhibitor binds at active sites of enzyme
34. ----- is the end product of anaerobic glycolysis
35. Match the following:

- | | |
|------------------------|--|
| 1. Beta Carotene | A. Deficiency disease of Vitamin B ₁₂ |
| 2. Beriberi | B. Pro-Vitamin |
| 3. Phosphofructokinase | C. Deficiency disease of Vitamin B ₁ |
| 4. Ubiquinone | D. Enzyme of glycolysis |
| | E. Component of ETC |
| | F. Enzyme of ETC |



**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JULY 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. Explain etiopathogenesis and pharmacological management of UTI infection.
2. Write the clinical manifestations, diagnosis and prevention of tuberculosis.
3. Write the etiopathogenesis and treatment of Peptic ulcer.
4. Explain the clinical manifestations and management of parkinson disease.
5. Write in detail about treatment for stroke.
6. Write pharmacological and non-pharmacological treatment of hypothyroidism.
7. Define Hypertension; write the etiology and pharmacological management of hypertension.

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

8. Explain in brief STG.
9. Write pharmacological management of hyperlipidemia.
10. What are the types of lipoproteins, mention the normal range?
11. Write the pharmacological management of status asthmaticus.
12. Define diabetes and mention the diagnostic tests and drugs used to treat diabetes.
13. Write in detail about non pharmacological management of migraine.
14. Discuss the etiopathogenesis of IBD.
15. What is megaloblastic anemia? Name the drugs used to treat.
16. What are musculoskeletal disorders? Name them and mention drugs used to treat.
17. What is Depression? Name the drugs used to treat depression.
18. Write clinical Manifestations of syphilis.

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

19. Define Pharmacotherapeutics.
20. -----is an example for short acting beta agonist.
21. Name different types of Insulin.
22. Valproic acid is contraindicated in -----due to teratogenicity.
23. What are antacids give examples.
24. Write the functions of Hemoglobin.
25. The antitubercular drug that can cause optic neuritis is -----
26. Write the etiology of Malaria.
27. Name the tests to detect Osteoarthritis.
28. Etiology of Scabies.
29. Name drugs used in Psychosis.
30. What are psychiatric disorders?
31. How to overcome microbial Resistance.
32. Write the symptoms of Premenstrual syndrome.
33. IVF stands for -----
34. Name drugs used in polycystic ovary Syndrome.
35. Match the following:

1. Methotrexate
2. Eczema
3. Pink eye.
4. CCF.

- a) Digitalis
- b) Rheumatoid arthritis
- c) Hydrocortisone
- d) Moxifloxacin
- e) Miotics
- f) Primaquine



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

Max marks: 80 M

Time: 3 Hours

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. Describe the process of development of Hospital formulary.
2. Explain the cold chain management of pharmaceuticals.
3. Discuss the role of hospital pharmacist in purchasing of drugs in hospital.
4. Explain complete floor stock system of drug distribution.
5. Define adverse drug reaction (ADR). Discuss ADR reporting system.
6. Define patient counselling. Discuss the goal and procedure of patient counselling.
7. Explain renal function test in detail.

SECTION B

10x3=30M

Short Essay (Answer any ten)

8. Explain the role of PTC in Drug Safety.
9. Write a short note on NAQS guidelines.
10. What are reserved Antibiotics? How their misuse can be prevented?
11. Write a note on automated drug dispensing system.
12. Write a short note on total parenteral nutrition.
13. Explain the importance of computer software's in inventory control in hospital.
14. Explain in brief treatment chart review.
15. Write the goal and procedure of medication history.
16. Describe the importance of clinical laboratory tests.
17. Give the composition, uses and dose of "Universal antidote".
18. Explain drug food interaction with example.

SECTION C

20x1=20M

Objective type (Answer all questions)

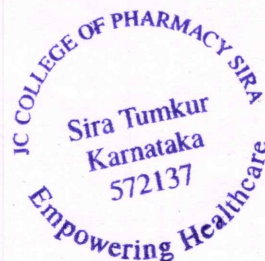
19. Define good pharmacy practice.
20. Write the scope of hospital formulary.
21. Define bulk compounding in Hospital.
22. Mention any two liver functional tests.
23. Give two examples of schedule H₁ drugs.
24. Expand FEFO.
25. Mention two software's used in hospital pharmacy.
26. Define total parenteral nutrition.
27. Define drug interactions with examples.
28. Define electronic health record.
29. The scope of pharmacovigilance includes detection and prevention of -----drug reactions
30. Write the use of ¹³³Xe. Radioisotope.
31. Give two examples for LASA drugs.
32. National pharmacovigilance center is established at -----
33. ----- is the fatal dose of barbiturate poisoning.
34. Normal range of TSH is -----
35. Match the following

A

1. ISMP
2. Narcotic drug
3. Penicillin
4. ALT

B

- a) Serum glutamate pyruvate transaminase
- b) Institute for safe medication practices.
- c) Paracetamol
- d) Anaphylaxis.
- e) Alanine transaminase
- f) Morphine



**GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm Part-II Examination (ER-2020) JULY 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

6X5=30 M

Long Essay (Answer any six)

1. Write the constitution and functions of Pharmacy Council of India.
2. Describe the application of e-governance tools in pharmaceutical manufacturing.
3. Write the constitution and functions of DTAB.
4. Give the qualification required for the appointment of government analyst. Add note on his duties.
5. Write a note on retail price and ceiling price of scheduled formulations under DPCO.
6. Write a note on code of ethics for pharmacist in relation to his job.
7. Write a note on basic concepts of clinical trials.

SECTION -B

10X3=30 M

Short Essay (Answer any ten)

8. Write the functions of Central Drugs Laboratory (CDL).
9. Mention the classes of drugs prohibited to be imported into India.
10. Write the objectives, offences and penalties related to Narcotic drugs and Psychotropic Substances Act 1954.
11. Define a) Drug b) Advertisements c) Magic remedies
12. Write the objectives of prevention of cruelty to animals Act 1960.
13. What are the powers of state government to regulate possession for sale and sale of any poison under Poisons Act 1919
14. Write about good regulatory practice guidelines to be followed for whole sale business.
15. What are the conditions to be fulfilled for termination of pregnancy under MTP Act?
16. Write a note on Indian Pharmacopeia Commission.
17. Give the functions of National Pharmaceutical Pricing Authority.
18. Write in brief about performance of experiments under the prevention of Cruelty Animals Act 19060

SECTION -C

20X1= 20M

Objective type (Answer all questions)

19. Which act regulates the profession of pharmacy in India?
20. Which schedule deals with Good Manufacturing Practices (GMP)?
21. Define illicit traffic.
22. Give any two objectives of Drugs and Magic remedies Act.
23. Which ministry governs the CPCSEA?
24. Name the schedules to the drugs price control order 2015.
25. Define Non-scheduled bulk drug.
26. What are generic drugs?
27. What is the storage temperature of whole blood?
28. What is the minimum area required for setting up a blood bank
29. Which colour of the bag used for disposal of cytotoxic drugs?
30. Which principle of bioethics focuses on doing good for the patient?
31. The Clinical Establishment Act was passed in the year-----
32. Good regulatory practices are promoted globally by the -----
33. The Central Drug Authority under the Drugs and Cosmetics Act is -----
34. FSSAI stands for-----.
35. Match the following:

A

1. Right to safety
2. Aim of the Disaster Management Act 2005
3. Class A Medical Device
4. Destruction of infectious waste by
Steam under pressure

B

- a) Mitigation and Preparedness
- b) Protects interest of buyers
- c) Heart Valve, Stunts
- d) Protection against hazardous goods
- e) Autoclaving
- f) Thermometer gloves

