

RAN-3714

SECOND YEAR M.B.B.S. Examination

December / January - 2019 / 2020

PHARMACOLOGY PAPER I

Time: 2 Hours]

[Total Marks: 40

सूचना : / Instructions

नीचे दशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

SECOND YEAR M.B.B.S.

Name of the Subject :

PHARMACOLOGY PAPER I

Subject Code No.: **3 7 1 4**

Seat No.:

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Student's Signature

Section -I

Q.1. Answer very briefly :

10

- Explain synergistic action of drugs giving one example.
- What is a placebo? Where are placebos used?
- Mydriasis produced by phenylephrine is not associated with photophobia. Explain why this is so.
- Why is Mannitol contraindicated in pulmonary edema?
- What is redistribution of a drug? Explain giving suitable example.
- What is a spacer? What are its advantages when used with a Metered dose inhaler (MDI)?
- Why is adrenaline not used in the treatment of congestive cardiac failure despite having a positive inotropic effect?
- What are orphan drugs? Give one example of an orphan drug.
- Why loperamide is not given in children below five years of age?
- Describe the mechanism of action of Alteplase.

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[1]

[P.T.O.]

Q.2. Answer any four :

8

- a) Compare and contrast Dopamine & Dobutamine.
- b) Enumerate parenteral iron preparations. Mention the indications for parenteral iron therapy.
- c) Describe in brief the mechanism of action and adverse effects of ACE Inhibitors.
- d) Define 'Zero order kinetics' and 'First order kinetics' of drug elimination. With one suitable example describe their clinical importance.
- e) Describe how a mother should be advised to make and administer 'Home made ORS' to a child suffering from mild dehydration.

Section - II

Q.3. Answer any four of the following:

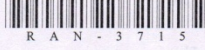
12

- a) Explain the mechanism of action and adverse effects of thiazide diuretics.
- b) Explain briefly the significance of plasma protein binding.
- c) Describe briefly with preferred agents the clinical uses of prostaglandin analogues.
- d) Write the pharmacotherapy of acute bronchial asthma.
- e) Write a short note on pharmacotherapy of myasthenia gravis.

Q.4. Answer any two of the following :

10

- a) Classify sympathomimetic agents. Describe the therapeutic uses of sympathomimetics with preferred agent for each use you mention.
- b) Classify drugs used for peptic ulcer. Describe in detail drug therapy of peptic ulcer.
- c) Enumerate five antihypertensives from different groups. Describe the mechanism and side effects of each drug that you have mentioned.



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SECOND YEAR M.B.B.S. Examination

December / January - 2019 / 2020

PHARMACOLOGY PAPER II

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

SECOND YEAR M.B.B.S.

Name of the Subject :

PHARMACOLOGY PAPER II

Subject Code No.: **3 7 1 5**

Seat No.:

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Student's Signature

Section -I

Q.1. Answer very briefly :

10

- Mention two topically used corticosteroids.
- Name two drugs which can be used for medical closure of patent ductus arteriosus.
- Describe the mechanism of action of ethanol in management of methanol poisoning.
- What is second gas effect in relation to general anesthetic agents?
- Name two hepatotoxic antimicrobials.
- Name two drugs useful in the treatment of neurocysticercosis.
- Why is chloroquine useful in hepatic amoebiasis but not in intestinal amoebiasis?
- Explain why gastric lavage is performed in morphine poisoning even if the drug has been taken intravenously.
- Describe the difference between antiseptic and disinfectant giving one example of each.
- Explain how voglibose differs from acarbose

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[1]

[P.T.O.]

Q.2. Answer any four :

8

- a) Enumerate the advantages of human insulin over regular insulin.
- b) Describe the role of morphine in LVF.
- c) Comment on fixed dose combination of ampicillin and cloxacillin meant for treatment of infection
- d) Explain mechanism of action of estrogen +progesterone combination as contraceptive drug.
- e) Name one preferred drug each for the following conditions and mention adverse effects of each.
 - i) Tinea solium infection
 - ii) Acute filariasis

Section - II

Q.3. Answer any four of the following:

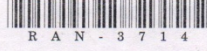
12

- a) Enlist different drugs used for the treatment of migraine. Write the drug therapy for an acute attack of migraine.
- b) Describe the management of paracetamol poisoning.
- c) Write a short note on the management of diabetic ketoacidosis.
- d) Describe the mechanism of action, advantages and disadvantages of use of radioactive iodine in hyperthyroidism.
- e) Describe briefly the mechanism of action, uses and adverse effects of rifampicin.

Q.4. Answer any two of the following:

10

- a) Classify drugs used in treatment of hyperthyroidism. Describe the mechanism of action, and adverse effects of any four drugs (from different groups) that you have mentioned.
- b) Describe the pharmacotherapy of Parkinsonism.
- c) Describe the drug therapy of P- falciparum malaria.



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Second Year M.B.B.S. Examination

March / April - 2019

Pharmacology - Paper 1

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Name of the Examination:

Second Year M.B.B.S.

Name of the Subject :

Pharmacology - Paper 1

Subject Code No.: 3 7 1 4

Seat No.:

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Student's Signature

(2) Answers must be brief, precise and to the point.

(3) Always give suitable examples & draw figures where necessary.

SECTION - I

1 Answer the following :

10

- What is redistribution phenomenon of a drug ?
- Define antagonist with an example.
- Mention two differences between phenoxybenzamine and phentolamine.
- What is first pass effect? Mention its relationship with bio availability.
- Define side effect of a drug.
- Name two endothelin receptor antagonist.
- How knowledge of V_d can be helpful in therapeutics ?
- Explain "coronary steal phenomenon".

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[1]

[P.T.O.]

- i. Bioavailability of drug by intramuscular route is always higher than oral route. True or false, explain.
- j. Write two uses of magnesium sulphate.
- 2 Answer any four of the following : 8
- Explain efficacy with the help of diagram.
 - What is ORS? Mention treatment of moderate dehydration.
 - Which are styptic agents? Mention their therapeutic uses.
 - Discuss the role of dopamine in cardiogenic shock.
 - Discuss mechanism of action and side effect of sumatriptan.

Section - II

- 3 Answer any four of the following : 12
- Discuss drug therapy for GERD. Also mention the non-pharmacological measures for the same.
 - Enumerate calcium channel blockers. Write their adverse effects & therapeutic uses.
 - Write mechanism of action and advantages of adenosine.
 - Enumerate various ferrous salts with their elemental iron content. Mention various indications of parenteral iron therapy.
 - Describe therapeutic uses of anticholinesterases giving pharmacological basis.
- 4 Answer any two of the following : 10
- Classify various drugs useful in glaucoma. Describe briefly drug therapy for acute congestive glaucoma.
 - Enlist various sympathomimetics and write their pharmacological actions.
 - Classify various drugs useful in bronchial asthma. Outline pharmacotherapy of COPD.



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Second Year M.B.B.S. Examination

March / April - 2019

Pharmacology - Paper 2

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Name of the Examination:

Second Year M.B.B.S.

Name of the Subject :

Pharmacology - Paper 2

Subject Code No.: 3 7 1 5

Seat No.:

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Student's Signature

(2) Answers must be brief, precise and to the point.

(3) Always give suitable examples & draw figures where necessary.

SECTION - I

1 Answer the following:

10

- Why ethanol is used in methanol poisoning ?
- By which mechanism lignocaine produces local anaesthesia ?
- Name four antifungal agents.
- Write four factors affecting choice of antimicrobial therapy.
- Mention four uses of tramadol.
- Why clavulanic acid is combined with amoxicillin?
- Name four drugs useful in treatment of HIV infection.
- What is chelating agent ? Give one example.
- Which antithyroid drug is safe during pregnancy? Why?
- Name two agents useful as sunscreens.

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[1]

[P.T.O.]

- 2 Answer any four of the following : 8
- What is radical cure in relation to malaria? Mention the drug and dosage schedule for the same.
 - Write a short note on enzyme inhibitors in Parkinsonism.
 - Enumerate drugs useful in epilepsy. Mention ADRs of any two.
 - Classify antipsychotic agents. Mention various limitations of antipsychotics.
 - Write a note on central muscle relaxant.

Section - II

- 3 Answer any four of the following : 12
- Enumerate macrolides. Write their mechanism of action & therapeutic uses.
 - Classify oral hypoglycemic agents. Explain mechanism of action and advantages of pioglitazone.
 - Write a short note on radio-active iodine.
 - Discuss mechanisms of resistance to antimicrobial agents.
 - Discuss drug therapy for STD.
- 4 Answer any two of the following : 10
- Which are the oestrogen receptor modulators? Describe uses and ADRs related to use of OC pills.
 - Classify drugs useful in treatment of tuberculosis. Describe treatment for MDR tuberculosis.
 - Which are the different sources of insulin? Give an account on newer insulin delivery devices. How will you manage hyperosmolar coma ?