

RAN-3714

Second Year M.B.B.S. Examination

July - 2020

Pharmacology : Paper - I

Time: 2 Hours]

[Total Marks: 40

सूचना : / Instructions

नीचे दृशविले निशानीवाणी विगतो उत्तरवली पर अवश्य लખवी.

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

- What is Therapeutic Index? Give two examples of a drug with low therapeutic index.
- What is the difference between 'side effect' of a drug and 'toxicity' of a drug? Explain giving an example.
- How does pH of urine affect elimination of a drug in urine?
- Explain with reasons whether warfarin can be used for initiation of treatment of deep vein thrombosis.
- Why is Mannitol contraindicated in pulmonary edema?
- Why is codeine not recommended for the symptomatic treatment of productive cough?
- Why is the subcutaneous route not preferred for administration of adrenaline in anaphylactic shock? Which route is preferred?
- Give two examples of drugs that can be administered as transdermal patches.

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[1]

[P.T.O.]

- i) Name the acute reaction with metoclopramide. How is it managed?
- j) Although aspirin has a short half life; it is given once a day for its antiplatelet effect. Give justification for the same.

Q.2. Answer any four :

08

- a) What is paradoxical tachycardia produced by quinidine? How can it be prevented?
- b) Enumerate two advantages & two disadvantages of second generation antihistaminics over first generation antihistaminics.
- c) Enumerate parenteral iron preparations. Mention the indications for parenteral iron therapy.
- d) Which drugs are used in triple drug therapy in case of relapse of duodenal ulcer? What is the rationale of using three drugs?
- e) Mention two drugs which should not be withdrawn abruptly, giving reasons for the same.

Section - II

Q.3. Answer any four of the following :

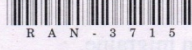
12

- a) Describe the treatment of acute congestive cardiac failure.
- b) Enumerate Low molecular weight heparins. What are their advantages and disadvantages?
- c) Describe with preferred agent, the clinical uses of prostaglandin analogues.
- d) Describe the management of organophosphate poisoning.
- e) Classify diuretics. Mention the uses and adverse effects of furosamide.

Q.4. Answer any two of the following :

10

- a) Enumerate five antihypertensives from different groups. Describe the mechanism and side effects of each drug that you have mentioned.
- b) Enumerate various β -blockers. Describe their uses giving the pharmacological basis for each use you mention.
- c) Enumerate various drugs from different categories used for the treatment of bronchial asthma. Describe their mechanism of action, preferred route of administration and side effects.



RAN-3715

Second Year M.B.B.S. Examination

July - 2020

Pharmacology : Paper - II

Time: 2 Hours]

[Total Marks: 40

ಸೂಚನೆ : / Instructions

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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

- What is the rationale of using disulfiram in alcohol de-addiction programme?
- Explain why Penicillin G is lethal to bacterial cell but non toxic to human cells.
- Describe the difference between antiseptic and disinfectant. Give one example of each.
- Why is the duration of action of thiopentone sodium very short?
- What is superinfection? Name one drug that can cause superinfection.
- Which is the adverse effect of phenytoin that helps in adjusting its dose?
- Give two reasons for using propranolol in thyrotoxicosis.
- What is Mazzoti reaction? How is it managed?
- Justify : Imipenem is combined with cilastatin for its use in clinical practice.
- Mention advantages of liposomal amphotericin B.

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[1]

[P.T.O.]

Q.2. Answer any four :

08

- a) Write the mechanism of action and side effects of ergotamine in migraine.
- b) Enumerate the advantages of human insulin over regular insulin.
- c) Give reason why despite a having a short half life, aminoglycosides are effective for long duration.
- d) Explain the pharmacological basis of using morphine in acute LVF.
- e) Explain the term 'additive effect' and 'supraadditive effect' in relation to combination of antimicrobials (AMA) giving suitable examples for each.

Section - II

Q.3. Answer any four of the following :

12

- a) Describe the drug therapy of hepatic amoebiasis.
- b) Describe how tricyclic antidepressants are beneficial in a case of depression. How does fluoxetine differ from tricyclic antidepressants in this respect.
- c) Write a short note on the management of diabetic ketoacidosis.
- d) Briefly describe HAART in relation to HIV infection.
- e) Describe the mechanism of action, advantages and disadvantages of use of radioactive iodine in hyperthyroidism.

Q.4. Answer any two of the following :

10

- a) Describe the therapeutic uses of glucocorticoids. Mention the adverse effects of prednisolone when used for long term therapy.
- b) Describe the pharmacotherapy of Parkinsonism.
- c) Describe the drug therapy of P- falciparum malaria.