



Central Library
SMIMER Surat.

M-4011

Second M. B. B. S. Examination

June / July - 2015

Pharmacology : Paper - I

Time : Hours]

[Total Marks : 40

Instructions :

(1)

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

Name of the Examination :
SECOND M.B.B.S.

Name of the Subject :
PHARMACOLOGY : PAPER - I

Subject Code No. : 4 0 1 1 Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

- (2) Answer must be precise, brief and to the point.
(3) Always give suitable examples.

1 Answer very briefly.

9

- (a) What is Prototype drug ?
(b) Define steady state concentration of a drug.
(c) Why mannitol is not given in pulmonary edema ?
(d) Mention two advantages of inhalation route of administration of a drug.
(e) Mention one difference between atropine and tropicamide.
(f) Why iron and folic acid are prescribed in pregnancy even when Lady is not anaemic ?
(g) Define tolerance.
(h) Why codeine is not recommended for symptomatic treatment of productive cough ?
(i) Why administration of enalapril and spironolactone is not recommended simultaneously ?

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[Contd...

2 Answer any three : 9

- (a) Enumerate various drugs from different categories for bronchial asthma. Describe their mode of administration.
- (b) Enumerate various anticoagulants. Describe briefly the side effects / precautions when anticoagulants are used.
- (c) Define therapeutic index. Explain briefly and with the help of diagram this concept.
- (d) Describe briefly the significance of plasma protein binding.

3 Answer any four. 12

- (a) Enumerate various statins. Describe briefly the mechanism of action; therapeutic uses and side effects of the same.
- (b) Describe with examples the concept of first order and zero - order kinetic of metabolism.
- (c) Enumerate various ferrous salts with their respective percentage of elemental iron. Describe the status of SRP of iron in therapeutics.
- (d) Enumerate various anti - diarrhoeal drugs from different categories. Describe mechanism of action and therapeutic uses of one of them.
- (e) Describe with examples the concept of fixed-dose drug combination.

4 Answer any two. 10

- (a) Classify parasympathomimetic drugs. Describe various therapeutic uses of these drugs.
- (b) Enumerate various sympathomimetic drugs. Describe the therapeutic uses of the same.
- (c) Enumerate various drugs from different categories for angina. Describe briefly the mechanism of action of nitrates for classical angina (Avoid the molecular mechanism.)



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Second M. B. B. S. Examination

June / July - 2015

Pharmacology : Paper - II

Time : Hours]

[Total Marks : 40

Instructions :

(1)

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

Name of the Examination :
SECOND M.B.B.S.

Name of the Subject :
PHARMACOLOGY : PAPER - 2

Subject Code No. : 4 0 1 2 Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

- (2) Answer must be precise, brief and to the point
(3) Always give suitable examples.

1 Answer very briefly :

9

- Mention two drugs useful in threatened abortion.
- Mention two intravenously useful general anesthetic agents.
- Mention two topically useful corticosteroids.
- Mention two drugs which inhibit the enzyme alcohol dehydrogenase in Liver.
- What is recrudescence in relation to malaria ?
- Oxytocin and not ergometrine is used for induction of labour. Why ?
- Define antiseptic and disinfectant.
- Define MIC in relation to chemotherapy.
- Mention two topically useful antifungal agents.

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1

[Contd...

4 Answer any two :

10

- (a) Enumerate various drugs acting on opioid receptors. Describe briefly their therapeutic uses giving pharmacological basis.
- (b) Enumerate various first line and second line antituberculous drugs. Describe various goals of treatment of tuberculosis. Describe briefly how these goals can be achieved by these drugs. Your answer should include side effects of various drugs mention by you.
- (c) Enumerate various drugs useful in dysfunction of thyroid gland. Describe briefly the clinical status of these drugs.

2 Answer any three :

9

- (a) Classify various drugs useful in amebiasis. Describe how various goals of treatment can be achieved by these drugs.
- (b) Enlist various types of insulin as per their duration of action. Describe briefly the rational approach to reach an ideal dose of insulin.
- (c) Classify various antidepressants from different categories. Describe briefly the toxic effects of tricyclic antidepressants.
- (d) Classify various drugs useful for psychosis. Describe briefly the mechanism of action and side effects of chlorpromazine.

3 Answer any four :

12

- (a) Enlist various anxiolytics from different categories. Describe briefly the mechanism of action and side effects of benzodiazepine.
- (b) Enumerate various non steroidal antiinflammatory drugs from different categories. Describe briefly the adverse effects and precautions to be observed during therapeutic uses of these drugs.
- (c) Enumerate various aminoglycosides. Describe briefly the therapeutic uses and side effects of these drugs.
- (d) Classify the antimalarial drugs based on clinical uses. Describe the complete oral dose schedule for P. Vivax which is sensitive to chloroquine and for P. Falciparum which is sensitive to quinine. Describe briefly the limitations of these two drugs as antimalarial agents.
- (e) Enumerate various drugs acting on glucocorticoid receptor. Describe briefly the side effects of drugs mention by you.

4. Answer any two :

10

- (a) Enumerate various drugs acting on opioid receptors. Describe briefly their therapeutic uses giving pharmacological basis.
 - (b) Enumerate various first line and second line antituberculous drugs. Describe various goals of treatment of tuberculosis. Describe briefly how these goals can be achieved by these drugs. Your answer should include side effects of various drugs mention by you.
 - (c) Enumerate various drugs useful in dysfunction of thyroid gland. Describe briefly the clinical status of these drugs.
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Second Year M. B. B. S. Examination

December - 2015

Pharmacology : Paper - I

Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

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

Name of the Subject :

Subject Code No. : Section No. (1, 2,.....) :

Seat No. :

Student's Signature

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

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

1 Answer very briefly:

9

- Write down two examples of orphan drugs.
- What is 'desensitization' of receptor? Give two clinical examples.
- What will be the effect on BP if large dose of acetylcholine is given after the administration of atropine? Give the reason for your answer.
- Name four antihypertensives of choice that can be prescribed to a female during pregnancy.
- What is teratogenicity? Name two teratogenic agents.
- Which are the types of aerosols? Give atleast one example of each.
- What is INR? Write down recommended INR for any one indication.
- Why loperamide is not given in children below five years of age?
- Name two diuretics used in the treatment of poisoning.

2 Answer any three :

9

- Enumerate different types of drug antagonism. Describe in detail receptor antagonism giving suitable examples and figures.
- Describe the mechanism of action of CCBs as antihypertensives. Write suitable indications for which they are prescribed and conditions for which they are avoided.

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1

[Contd...

- c) Enlist the advantages of second generation H₁ antihistaminics. Describe the therapeutic uses of H₁ antihistaminics giving pharmacological basis.
- d) Write a note on kinetics of elimination.

3 Answer any four : 12

- a) Classify drugs used in cough. Describe in short the non-opioids used in cough.
- b) Write a short note on $\alpha + \beta$ blockers
- c) Enumerate LMWH. Describe therapeutic uses and adverse effects of heparin.
- d) What is therapeutic drug monitoring (TDM)? Explain the situations with examples in which it is useful and is of no value.
- e) Explain briefly about rational drug combinations used for chronic prophylaxis of angina.

4 Answer any two : 10

- a) Enumerate various atropine substitutes. Write in detail about their therapeutic uses giving pharmacological basis.
- b) Classify antiemetic drugs. Describe mechanism of action, uses and adverse effects of any one commonly used class of drugs.
- c) Describe in detail different types of drug interactions giving suitable examples.



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M-4012-N

Second M. B. B. S. Examination

December - 2015

Pharmacology : Paper - II

Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

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

Name of the Examination :
SECOND M. B. B. S.

Name of the Subject :
PHARMACOLOGY : PAPER - 2

Subject Code No. : 4 0 1 2 Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

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

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

1 Answer very briefly:

9

- What is hyperbaric solution of lignocaine? What is the utility of such preparation?
- Name two drugs which can be used for medical closure of patent ductus arteriosus.
- Give two advantages of non-benzodiazepines over diazepam as hypnotic drug.
- Name two drugs used in the treatment of leptospirosis.
- Mention two general anaesthetic agents preferred for paediatric patients?
- What is the limitation of naloxone while given in morphine poisoning? What is the way to prevent it?
- Name four antimicrobial agents used to treat anaerobic infection.
- Name two indications of steroids in tuberculosis.
- Mention two reasons for not preferring ergometrine for induction of labour.

2 Answer any three:

9

- Enumerate various oral hypoglycemic drugs from different categories. Describe the mechanism of action and adverse effects of sulfonylureas.
- Write a short note on ACT.
- Enumerate various agents used in gout. Describe mechanism of action and adverse effect of uricosuric agents.
- Enlist the advantages and disadvantages of atypical neuroleptics.

3 Answer any four:

12

- a) Enumerate various AMAs to treat gram +ve infection. Describe the mechanism of action and enlist the adverse effects of penicillin.
- b) Describe the treatment of methyl alcohol poisoning.
- c) Describe the pharmacological basis for the use of oestrogen-progesterone combination as oral contraceptive pills and mention its adverse effects.
- d) Describe in relation with parkinson's disease:
 - (1) on-off phenomenon
 - (2) levodopa-carbidopa combination
- e) Explain the pharmacological basis of use of
 - (i) morphine in acute LVF
 - (ii) methadone in morphine deaddiction

4 Answer any two:

10

- a) What is MDR-TB? Write down the general principles of treatment of MDR- TB and standardized RNTCP regimen for the same. Write the mechanism of action, adverse effects and uses of rifampin.
- b) Enumerate various drugs acting on glucocorticoid receptor. Describe the adverse effects and uses of the same with proper pharmacological basis.
- c) Classify general anaesthetic agents. Discuss critically about various factors affecting depth of anaesthesia. Your answer should include both inhalational and intravenous GA.