



Central Library
SMIMER Surat.

P-4011

Second Year M. B. B. S. Examination

February - 2014

Pharmacology : Paper - I

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.	Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Name of the Examination : SECOND YEAR M. B. B. S.	Student's Signature
Name of the Subject : PHARMACOLOGY : PAPER - 1	
Subject Code No. : 4 0 1 1 Section No. (1, 2,.....) : Nil	

- (2) Answers must be brief, precise and to the point.
(3) Always give suitable examples wherever needed.
(4) Figures on right indicate the marks allotted to question.

- 1 Answer the following : (Attempt all) 9
- Mention the clinical status and limitations of streptokinase.
 - Explain the pharmacological basis of use of adrenaline in anaphylactic shock.
 - Explain briefly the difference between allergic and idiosyncratic reaction.
 - Enumerate therapeutic uses of choline esters.
 - Define : (i) Teratogenicity (ii) Phototoxicity.
 - Explain briefly role of mucolytics in the treatment of cough.
 - Explain briefly the limitations of nifedipine as an antihypertensive agent.
 - Write briefly about xylometazoline.
 - Explain why beta blocker should not be combined with verapamil.
- 2 Answer any three of the following : 9
- Describe the drug therapy of relapse of peptic ulcer.
 - Describe the clinical uses of phenylephrine. Mention the mode of administration for each use.

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[Contd...

- (c) Describe the clinical uses of sodium nitroprusside. Mention the mode of administration and precaution required in its use.
- (d) Explain mechanism of action and adverse effects of thiazide diuretics.

3 Answer any **three** of the following : 12

- (a) Name four drugs for emesis that act by different mechanisms. Describe mechanism, uses and adverse effects of each.
- (b) Describe with preferred agent the clinical uses of prostaglandin analogues.
- (c) Enumerate two first generation and two second generation antihistaminics. Describe merits and demerits of second generation antihistaminics.
- (d) Write a brief note on each of the following :
 - (i) Salmeterol
 - (ii) Iron sucrose
 - (iii) Warfarin
 - (iv) Lepirudin.

4 Answer any two of the following : 10

- (a) Enumerate five commonly used drugs from different groups for treatment of congestive cardiac failure. Justify use of each drug for the same.
- (b) Classify atropine substitutes and/or derivatives and describe their therapeutic uses.
- (c) Describe with suitable examples the pharmacokinetic and pharmacodynamic interactions.

2 Answer any three of the following : 9

- (a) Justify the use of each of the following combination :
 - (i) Trimethoprim sulphamethoxazole as antimicrobial agent.
 - (ii) Pyrimethamine + sulfadoxine as antimalarial agent.
- (b) Compare and contrast between penicillin G and amoxicillin.
- (c) Describe with preferred agent the clinical uses of benzodiazepines.
- (d) Describe briefly mechanism of action, merits and demerits of radioactive iodine.

3 Answer any three of the following : 12

- (a) Enlist commonly used selective serotonin reuptake inhibitors and their therapeutic uses. Describe briefly their merits and demerits as compared to tricyclic antidepressants.
- (b) Describe clinical uses, adverse effects and interactions of each of the following :
 - (i) Ciprofloxacin
 - (ii) Metronidazole.
- (c) Describe briefly the pharmacotherapy of typhoid fever.
- (d) Write a note on each of the following :
 - (i) Minipill
 - (ii) Ulipristal.

4 Answer any two of the following : 10

- (a) Enumerate five commonly used drugs for tonic-clonic seizures. Describe briefly the mechanism of action and adverse effects of each.
- (b) Describe the drug therapy of P-falciparum malaria.
- (c) Enumerate commonly used glucocorticoids. Describe principles of their use and their adverse effects.



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June / July - 2014

Pharmacology : Paper - I

Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

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Name of the Examination : SECOND YEAR M. B. B. S.		<input type="text"/>
Name of the Subject : PHARMACOLOGY : PAPER-1		<input type="text"/>
Subject Code No. : 4 0 1 1		Student's Signature
Section No. (1, 2,.....) : Nil		

- (2) Answer must be brief, precise and to the point.
(3) Always give suitable examples wherever needed.
(4) Figures on the right indicate the marks allotted to the question.

- 1 Write as directed : (attempt all) **9**
- (a) What is maintenance dose ? Mention important factor that determines the maintenance dose.
 - (b) Describe with clinical significance, the hepatic first pass effect.
 - (c) Explain why atrophy of nasal mucosa is more likely in prolonged use of xylometazoline ?
 - (d) Explain with reasons whether salmeterol can be used for acute asthmatic attack.
 - (e) Explain with reasons whether warfarin can be used for initiation of treatment of deep vein thrombosis.
 - (f) Name two antimotility drugs and their two contraindications.
 - (g) What is peculiarity of esmolol ? Mention its clinical use.
 - (h) Name two prostaglandin analogues used for induction of labour and two analogues for treatment of glaucoma.
 - (i) Explain with examples zero order kinetics.
- 2 Answer any three of the following : **9**
- (a) Name three drugs from different groups for treatment of chronic bronchial asthma. Briefly describe the mechanism of action and adverse effects of each.

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[Contd...

- (b) Describe the clinical uses of alpha blockers.
- (c) Briefly describe the pharmacological basis of using each of the following.
- (i) Adrenaline in anaphylactic shock
 - (ii) Glucagon for betablocker poisoning
- (d) Write a brief note on each of the following
- (i) Cholestyramine
 - (ii) Tenecteplase
 - (iii) Lepirudin
- 3 Answer any three of the following : 12
- (a) Write a note on each of the following :
- (i) Biscacodyl
 - (ii) Dextromethrophan
 - (iii) Protamine sulphate
 - (iv) Adenosine
- (b) Name four anti hypertensives that act by different mechanisms. Describe mechanism of action and adverse effect of each.
- (c) Describe clinical uses of calcium channel blockers. Comment on their use in combination with Beta blockers.
- (d) Name four antiemetic from different groups. Describe the mechanism, adverse effects and preferred use(s) of each.
- 4 Answer any two of the following : 10
- (a) Explain how 5-HT is synthesized in body. Describe briefly the mechanism of action and clinical uses of various agents that act through 5-HT receptors.
- (b) Describe briefly the clinical uses and adverse effects of angiotensin converting enzyme inhibitors.
- (c) Describe with suitable example(s) the pharmacokinetics and pharmacodynamic interaction.



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June / July - 2014

Pharmacology : Paper - II

Time : 2 Hours]

[Total Marks : 40

Instructions :

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Name of the Examination :		<input type="text"/>
Name of the Subject :		<input type="text"/>
Subject Code No. : 4 0 1 2		Student's Signature
Section No. (1, 2,.....) : Nil		

- (2) Answer must be brief, precise and to the point.
- (3) Always give suitable examples wherever needed.
- (4) Figures on right indicate the marks allotted to question.

- 1 Write as directed : (attempt all) 9
- (a) Comment on the use of actylsalicylic acid and viral fever in a child of 3 years.
 - (b) Mention important differences between aspirin and indomethacin.
 - (c) What is lepra reactions ? Mention the drug used for its treatment.
 - (d) Explain with example the cheese reaction.
 - (e) Comment on the role of rifabutine in the treatment of tuberculosis in AIDs patients.
 - (f) Explain with reasons whether ergometrine can be used for induction of labour.
 - (g) Explain whether driving vehicle is dangerous after consumption of a alcohol. Give reasons.
 - (h) Explian why Pentazocine is avoided in morphine addicts.
 - (i) Comment on the use of lignocaine with adrenaline as infiltration anaesthesia for surgery of great toe.

2 Answer any three of the following : 9

- (a) Enumerate three commonly used drugs for mania prophylaxis. Describe briefly.
- (b) Describe the drug treatment of hepatic amoebiasis.
- (c) Describe the drug treatment of gouty arthritis.
- (d) Write a brief note on each of the following :
 - (i) Naltrexone
 - (ii) Moclobemide
 - (iii) Propotol

3 Answer any three of the following : 12

- (a) Describe the adverse effects and interactions of levodopa. Mention the measures taken to overcome its adverse effects.
- (b) Name one preferred drug for each of the following condition and mention adverse effect(s) of each.
 - (i) T. Solium infestation
 - (ii) Acute filariasis
 - (iii) Visceral leishmaniasis
 - (iv) Neurocysticercosis
- (c) Describe the clinical uses and adverse effects of each of the following :
 - (i) Ceftriaxome
 - (ii) Acyclovir
- (d) Write a brief note on each of the following :
 - (i) Voglibose
 - (ii) Glucagon
 - (iii) Insulin lispro
 - (iv) Ritonavir

4 Answer any two of the following : 10

- (a) Describe the factors responsible for the failure of antimicrobial therapy.
- (b) Enumerate five antifungal drugs from different groups for systemic infection. Describe the adverse effects of each.
- (c) Describe the clinical uses of benzodiazepines. Mention benzodiazepines preferred in poor hepatic function.