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Second Year M. B. S. Examination

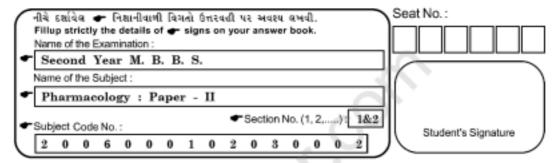
June / July - 2021

Pharmacology : Paper - II

Time: 2 Hours] [Total Marks: 40

Instructions:

(1)



SECTION - I

Answer the following.

 $1 \times 10 = 10$

- (a) Explain why a single dose of Penicillin G administered may prove fatal in some patients although it has high therapeutic index?
- (b) Name two antibiotics which can be safely used in hepatic failure.
- (c) Name one anabolic steroids and mention its therapeutic use.
- (d) Give two reasons for preferring Albendazole to Praziquantel in treatment of neurocysticercosis.
- (e) Why is ethambutol not used in children below six years?
- (f) Explain why local anesthetics occasionally fail to control pain sensation in inflamed tissue.
- (g) Explain why pentazocine is avoided in morphine addicts?
- (h) Mention two selective estrogen receptors modulators (SERM) with their therapeutic uses.
- Name two antiviral agents used in the treatment of COVID 19 disease.
- (j) Explain the terms 'Antiseptic' and 'Disinfectant' with examples.

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2 Answer any four of the following.

- $2 \times 4 = 8$
- (a) Explain pharmacological basis of Disulfiram reaction and write name of two most common drugs causing it.
- (b) Enumerate two insulin analogues and mention their advantage over other type of insulins.
- (c) Describe concept of pre anesthetic medications with examples of at least two agents used for it.
- (d) Enumerate the adverse effects and contraindications of glucocorticoids.
- (e) Explain the pharmacological basis of use of Morphine in acute left veritticular failure.

SECTION - II

3 Answer any four of the following.

- $3 \times 4 = 12$
- (a) Classify oral antidiabetic agents. Describe mechanism of action and adverse effects of Biguanides.
- (b) Enlist Fluroquinolones and describe mechanism of action and therapeutic uses of the same.
- (c) Classify various drugs for Parkinsonism. Give rational behind combining levodopa and benserzide. Mention various adverse effects observed during levodopa therapy.
- (d) Classify various anti-malarial drugs, write therapeutic uses and adverse effects of Chloroquine.
- (e) Enumerate various adverse effects of anti-cancer drug therapy in general and describe various strategies to prevent or decrease them.
- 4 Answer any two of the following.

 $5 \times 2 = 10$

- (a) Classify anti rheumatoid drugs. Describe mechanism of action, adverse effects and current clinical status of Disease Modifying antirheumatic drugs (DMARDs).
- (b) Classify antithyroid drugs. Describe the mechanism of action and adverse effects of (a) Carbimazole, (b) Radioactive Iodine.
- (c) Give various ways of classification of antimicrobial agents giving suitable examples. Describe various reasons leading to failure of chemotherapy.

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