

Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code:20AM0115100531

Subject- Pharmacology

Paper-I

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Describe various clinical and experimental methods for evaluation of anti-anginal drugs.
- b. Design a protocol for in human evaluation of an ayurvedic preparation used as analgesic in home remedy. Enumerate the differences in protocol as compare to the one used for new chemical entity, develop as an analgesic.
- c. Discuss ethical issues related to clinical trials and describe the role of placebo in clinical trials

2. Write in brief (Any Six)

6X 10 = 60

- a. Preclinical toxicity studies
- b. Pharmacobezoars
- c. Newer drug delivery systems.
- d. Confidence interval.
- e. Alternatives to animal experiments.
- f. Clinical Relevance of Chronopharmacology with suitable examples.
- g. Role of Chirality (stereo isomerism) in drugs action.
- h. Bias in drug trials and how its influence may be reduced.

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code:20AM0115100532

Subject- Pharmacology

Paper-II

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper- such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Make a diagrammatic outline of anti coagulants drugs with sites of action in coagulation cascade. Describe their role in current day therapeutics.
- b. Describe drugs used in congestive cardiac failure (CCF).
- c. Design a REMS for management of drug induced bronchospasm.

2. Write in brief- (Any Six)

6X 10 = 60

- a. Basis of triphasic response on blood pressure seen with angiotensin-II administration and its clinical use.
- b. Biologics used for treatment of rheumatoid arthritis.
- c. Potassium sparing diuretics and their uses.
- d. Immuno modulator drugs with indications.
- e. Corticosteroids used in dermatological conditions
- f. Drugs used for psoriasis.
- g. Lower incidence of hypoglycaemia seen with DPP4i as compared to Sulfonylureas.
- h. Antifolate drugs and their indications.

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code:20AM0115100533

Subject- Pharmacology

Paper-III

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper- such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Mechanisms of action of Beta blockers in various disorders affecting cardio vascular system.
- b. Describe antiplatelet drugs, their uses and adverse effects.
- c. Describe a protocol for treatment of malaria across the age groups and types of malaria parasite.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Potassium-Competitive acid blockers.
- b. ADR'S seen with abrupt cessation of long term glucocorticoid therapy.
- c. Insulin sensitizers.
- d. Mechanism of Paracetamol toxicity and its management.
- e. Uses of Selective Beta-3 agonists.
- f. Uses and adverse effects of Prostaglandin analogs.
- g. Antiepileptic drugs and their teratogenic risk.
- h. Specific uses of indomethacin & adverse effects.

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code:20AM0115100534

Subject- Pharmacology

Paper-IV

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper-such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Describe evolution of therapeutics agents against COVID-19 and its complications. Arrange the same in chronological order.
- b. Beyond Statins, describe the newer LDL lowering agents approved and their role in prevention of Coronary artery diseases.
- c. How to impart teaching in pharmacology, now that MBBS-II Prof. has been reduced to 1 year. Suggest a detailed plan for your department.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Future uses of thyroid receptor agonists & antagonist.
- b. Nonendocrinal uses of Metformin
- c. New drug delivery systems.
- d. Future potentials of Vasopressin receptor antagonists.
- e. Recent drugs approved for treatment of type II DM.
- f. Biosimilars.
- g. Recent modification in DOT'S therapy.
- h. Uses of agents interfering with the effects of testosterone.

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