

10 Marks

BPK 3rd Sessional

- 1) Define bioavailability and mention the objectives and bioavailability studies. Explain the various methods of enhancement of bioavailability.
- 2) What are the advantages of non Compartmental model over compartment modeling. Discuss brief the statistical movement theory, Mean residence time, and physiologic models.
- 3) Explain various approaches to improve the dissolution of poorly soluble drugs.
[Enhancement of bioavailability]

5 marks

- 1) Explain statistic Movement theory.
- 2) Define bioavailability studies mention the objective of the bioavailability studies.
- 3) Explain the various factors causing Non-linearity.
- 4) Explain Michaelis menton equation.
- 5) Explain How bioavailability is measured using urine data.
- 6) Explain Invitro methods for determining absorption of drugs.
- 7) Discuss drug accumulation during multiple dosing.

2 Marks

- 1) what do you understand by K_m and V_{max} .
- 3) Give the formula for $AUMC$ and MRT .
- 4) Difference b/w Relative and Absolute bioavailability.
- 5) Define therapeutic equivalence and chemical equivalence.
- 6) Name two parameter used in adjusting dosage regimen.
- 7) Write the test to determine non-linearity.
- 8) Give the formula for determination.
- 9) List out the reasons for non-linearity in pk studies [causes/factors]
- 10) Name any 4 methods for enhancing bioavailability of drugs.
- 11) How does Non-linearity in drug absorption occur.

10 Marks

CAP 3rd Sessional

- 1) Define and classify ADR's. Explain the predisposing factors of ADR's.
- 2) Mention the objectives of pharmacovigilance. Discuss about WHO and Narmayo's scale of causality assessment.
- 3) Explain the role of pharmacist in prevention, monitoring and management of ADR's.
- 4) Define pharmacovigilance. Explain the mechanism of Type A and Type B ADR's.
- 5) Differentiate ADR and ADE. Classify ADR's and add a note on the mechanism of the same.

5 Marks

- 1) Discuss the predisposing factors for ADR.
- 2) Discuss the various types of ADR's.
- 3) Explain different methods of determining antimicrobial sensitivities.
- 4) Classify ADR and their mechanism.
- 5) Explain in brief about critical evaluation of primary and secondary Research Paper.
- 6) Explain the imp of DIC in relation to various health care professionals.

7) Discuss the Requirement of drug and poison information context in detail.

2 Marks

- 1) Mention the various function of DIC.
- 2) Structure of case presentation.
- 3) Define ADE.
- 4) Explain the imp of Narayo's scale.
- 5) Test associated with cardiac disorders.
- 6) Define ADR. pharmacovigilance.
- 7) Preventing measures of ADR, Role of pharma in management of ADR.
- 8) Define communication? Mention the various factors affecting the communication.
- 9) ~~Ex~~ Enumerate the barriers for effective communication.
- 10) List out the skills required for drug information specialists.

10 Marks

- 1) Discuss the different types of seizures. Explain pharmacotherapeutic approach to treat epilepsy.
- 2) Explain etiopathogenesis, clinical features diagnosis and treatment for parkinson's disease.
- 3) Discuss about pathophysiology, clinical manifestations and pharmacotherapy of stroke.
- 4) Write the pathogenesis and the clinical management of alzheimer's disease.
- 5) Explain the etiopathogenesis, diagnosis and management of affective disorders.
- 6) Explain clinical presentation and pharmacotherapy of anxiety disorder.
- 7) Classify sleep disorders. Explain insomnia and pharmacotherapy of insomnia in detail.
- 8) Explain goals of therapy, clinical presentation and pharmacotherapy of obsessive compulsive disorder.
- 9) Explain etiopathogenesis, diagnosis and management of depression.

5 Marks

- 1) Draft the algorithm for management of epilepsy.
- 2) Clinical features and diagnosis including stages of parkinson's disease.
- 3) Explain the cascade of cerebral ischemia and risk factors in ischemic stroke.
- 4) Write the general approaches in treatment of stroke.
- 5) Write a note on management of alzheimer's disease.
- 6) Define Schizophrenia. Explain sign and symptoms, diagnosis and management of schizophrenia.
- 7) Discuss the different types of Schizophrenia.
- 8) Role of tricyclic antidepressant and Selective Serotonin Reuptake inhibitors in anxiety disorder.
- 9) Explain the goals and pharmacotherapy of obsessive compulsive disorder.
- 10) Explain in detailed on pain pathway.
- 11) Define Narcolepsy. Explain symptoms, diagnosis and treatment of narcolepsy.
- 12) Write the pathogenesis and pharmacotherapy of migraine headache.

13) Different treatment approaches for depression.

14) What is evidence based medicine, mention the modalities of evidence based medicine.

2 marks

- 1) Diagnosis of epilepsy.
- 2) Explain various stages of parkinson's disease.
- 3) Classification of stroke.
- 4) Define panic attack and alzheimer's disease.
- 5) pharmacological therapy of schizophrenia.
- 6) Role of benzodiazepines in schizophrenia.
- 7) List out cognitive and non-cognitive symptoms of AD.
- 8) Non-pharmacologic treatment of Anxiety disorder.
- 9) List any four drugs causes insomnia.
- 10) classify obsessive compulsion disorder.
- 11) clinical presentation of migraine headache.
- 12) what are the characteristics of neuropathic pain.
- 13) Mention the grading scales of pain.
- 14) Role of triptans in management of migraine.
- 15) classify headache disorders.

- 16) Role of pharmacist in EBM.
- 17) Define evidence based medicine.
- 18) Aims of evidence based medicine.

10 marks

Clinical Toxicology

- 1) What are the signs and symptoms of acute poisoning with organophosphorus compounds? Describe its clinical management.
- 2) Explain in details about the management of acute poisoning with ethanol and methanol.
- 3) Describe the clinical symptoms and management of chronic poisoning with Lead, Arsenic, Copper.
- 4) Write a note on the general principles in the management of heavy metals poisoning.
- 5) Explain the clinical symptoms, first aid, complications and management of venomous snake bite.

5 marks

- 1) Explain in detail general principles involved in the management of poisoning.
- 2) Write a note on Supportive care in clinical toxicology.
- 3) Explain the signs and symptoms paracetamol poisoning.
- 4) Discuss the nephrotoxicity of NSAID.
- 5) Explain the clinical symptoms and management of cannabis dependent.
- 6) Discuss the clinical symptoms and management of hallucinogen and tobacco.
- 7) Explain the management cocaine detoxification.

8) Describe the clinical effect of venom, general first aid management for snake bite injury.

9) ~~write~~ write the early manifestation, complication and management of snake bite injuries.

10) write the general first aid management for snake bite.

2 marks

1) Define UFO and MLD.

2) Give two examples for drugs/poison which cause papillary changes (miosis, mydriasis and ~~and~~ Nystagmus) for each.

3) Antidotes used in methanol poisoning.

4) Name the specific antidotes for the following →

a) paracetamol

b) organophosphorus compounds.

c) Iron.

d) Morphine.

5) Expand CAVHD, ~~write~~ write its significance.

6) Write the toxicokinetics of paracetamol.

7) write the role of atropine in op poisoning.

8) Write the usual fatal dose of morphine.

9) Expand the BAL and DMSA.

10) Write the differences b/w venomous and non-venomous snake

- 10) signs and symptoms of snake poisoning.
- 11) What is the role of atropine in mushroom poisoning.
- 12) Write the management of poisoning with mushrooms.
- 13) Write the signs and symptoms and first aid for scorpion bite.
- 14) Write the management for Arthropods bite.

Hospital Pharmacy

10 Marks

- 1) Explain the role of pharmacist in Central Sterile Supply Services.
- 2) How is TPN (Total parenteral nutrition) is prepared. Explain the manufacture of large volume parenteral.

5 Marks

- 1) Explain the objectives and functions of CSSR in a hospital.
- 2) What are the ~~techniques~~ radio pharmaceuticals give the therapeutic and diagnostic application of radio isotopes.
- 3) Define and classify tablets.
- 4) List out the objective of CPD programme.
- 5) Mention a few of functions of hospital pharmacist in the drug information center.
- 6) Explain the packing of radio pharmaceuticals.
- 7) List out the objectives of CPD programme.
- 8) Advantages of CPD programmes.
- 9) Explain the role of hospital pharmacist in external teaching programs.
- 10) Discuss the composition of total parenteral nutrition.