

Code No: PH301**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****Pharm.D III Year Supplementary Examinations, October - 2019****PHARMACOLOGY – II****Time: 3hours****Max.Marks:70****Answer any five questions
All questions carry equal marks**

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- 1.a) Briefly discuss about Direct and Indirect Thrombin Inhibitors.
b) Why NSAIDS comes under the category of antiplatelets? Describe briefly the usage of aspirin in various clinical conditions? [7+7]
- 2.a) Among loop and thiazide diuretics which diuretics are best suitable for Postmenopausal Women and Why?
b) Write the pharmacological mechanism of action, clinical use and side effects of following drugs.
i) Ticlopidine
ii) Ridogrel
iii) Eptifibatide
iv) Ximelagatran. [6+8]
- 3.a) Describe the antibiotics which affect the bacterial cell membrane with pharmacological mechanism of action.
b) How NRTI and NNRTI differs in terms of reverse transcriptase enzyme inhibition?
c) Which nucleoside derivative is approved by FDA for the inhibition of HIV from mother to child? Why? [6+6+2]
- 4.a) Why Aspirin is not given through the I.V route although it has an extensive first pass metabolism?
b) How cyclooxygenase pathway is linked to PI3 kinase Pathway?
c) Through which pathways growth hormone promotes the cell division and differentiation? Explain using a suitable diagram. [4+4+6]
- 5.a) How prokaryotes are different from eukaryotes in synthesizing a protein?
b) What is the central dogma of life and describe in short about the transcription and translation? [7+7]
- 6.a) How potassium sparing diuretics spares the potassium in the body? Write about aldosterone antagonists and direct sodium channel blockers involved in diuresis?
b) Write the pharmacological mechanism of action and side effect profile of the following drugs.
i) Cyclosporin A
ii) Azathioprine
iii) Streptokinase
iv) Tacrolimus. [7+7]

- 7.a) Explain clinical use and side effects:
- i) Clo-trimaxazole
 - ii) Amoxicillin-Potassium Clavulanate
 - iii) HAART
 - iv) Clotrimazole
- b) What is the relevance of therapeutic drug monitoring? Give few suitable examples? [7+7]
8. Describe the endpoints to define Acute, sub acute and chronic toxicities? And briefly discuss about OECD test guidelines for the chemicals? [14]

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