





Subject: Pharmacology Paper: II

Full Marks: 100 Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

- a) A 45 year old lady with graves disease is presented with a rapid heart beat,tremor,weight loss,diarrhoea and bulging of eyes. Her blood test reveals thyroid hormones raised. Her total T₄ 13µgm/dl, free T₄ 3ng/dl, Total T₃ 300ng/dl, TSH 0.2mU/L.
 - Enumerate the drugs to treat this.
 - ii) Mention the side effects of those drugs.
 - iii) How a case of thyroid storm is treated ?

6+6+3

- b) A middle aged female patient at medicine OPD has presented herself with fatigue weight loss, joint pain, swelling, morning stiffness, joint deformity. She has been diagnosed with rheumatoid orthmitis after laboratory confirmation.
- i) Prepare on essential medicine list fm RA.
- ii) How will theat this case?
- iii) How do the drugs modify the disease process?
- iv) Write down the adverse effects of any one of them.

2+5+4+4

- 2. a) Intensive glycemic control and targeting normal or near-normal glucose control with comprehensive self-management training is standard therapy in diabetes patient. Enumerate the available insulin preparations. What are the therapeutic uses of insulin? What are the oral drugs used as insulin secretagogues and what are the adverse effects?
 - b) Enumerate the drug useful to meat parkinsonism. Mention the mechanism of action and side effects of levodopa. What is the meaning of imagery parkinsonism.

 4+2+2+2
 - c) Classify Antiretroviral drugs. Write down the mechanism of action of Dolutegravir.
 Write two adverse effects of protease inhibitors.
- 3. Write short notes on following:

2 x 5

- a) Clinical uses of prostaglandins.
- b) Methotrexate.
- Explain the following statements:

5 x 4

- a) Oxyocin but not ergometrine is used for induction of labour.
- Patients on MAO-inhibitors should avoid foods with high tyramine content.
- c) Folinic acid but not folic acid is given in methotrexate toxicity.
- d) Clavulanic acid is added with beta-lactam antibiotics.
- e) Succinyl choline an cause prolonged apnoea in some individuals.





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	10 x 1
5. Choose the correct option for each of the following:	,
AMark the correct matching about the agent and its primary action.	
Paraminobenzoic acid - reflected sunscreen	
b) Salanium culphide antikeratolytic	
d) Trichloroacetic acid - counteriritant	
ii) Which of the following statement is wrong about the drug, its use and route of	
administration?	
a) Calcitonin – hypercalcaemia – intramuscular	
b) Alendronate - osteoporosis - nasai spray	l snrav
Delevitene esteonorosis oral di Calcitonin - Osteoporosis	a up.uj
iii) Amphoterien B is used for all of the following conditions EXCEPT.	
a) Histoplasmosis	
, b) Onychomycosis	
c) Asperoillosis d) Blastomycosis	
iv) Selective estrogen receptor modulators usually act as:.	
a) Estrogen receptor antagonists in breast disade	
L) Estrogen recenter entegonists in liferine ussue	
Total and a second seco	
Degarding vancomicin which of the following statement is most	
	hesis
d) Mechanism of action does not include inhibition of bacterial protein synt	Which of
A Impound case of seizure disorder has been on long term party	111011
the following statements about this drug would be income	
**Extensively bound to plasma proteins	
b) Metabolism follows only zero order kinetics	
Demine therepoute drug monitoring	
a set to the disease well by the C.Y.P. enzymes in the niver	
	ct
Tabibite cholinergic smooth muscle sumulation in the guston	
- t	
b) Decrease lower esophagear spinious personal motility c) Stimulates D2 receptor d) Enhances gastrointestinal motility	owing
viii). The success of oral rehydration therapy of diarrilocal deposits apost	
in the intestinal mucosa;	
a) Sodium pump mediated Na+ absorption	2" 1
b) Glucose counled Na+ absorption	ary to
c) Bicarbonate coupled Na+ absorption dy russive rus	200
nutrient absorption /	
ix) Drug used in prostatic carcinoma	
a) Flutamide	
Tamovinhane (1) McHouckate	
x) Haemorrhagic cystits is a side effect of following anticancer drug:	
a) Vincristine	
b) Bleomycin	
c) Cyclophosphamide	
d) Chlorambucil	