

Max Marks: 21

Pass Marks: 10 ½

Topic: Anti-T.B Drugs

Q: State whether True or False (Negative marking for wrong answers). (09)

- M.tuberculosis is rapidly growing bacteria. T/F
- M.tuberculosis is intracellular organism. T/F
- M. tuberculosis is sensitive to all of antibiotics. T/F
- Monotherapy against M.tuberculosis is an effective method of treatment. T/F
- Polytherapy against M.tuberculosis is expensive and should be avoided T/F
- Directly observed therapy (DOT) is meant for those patients whose adherence is good. T/F
- INH is very effective against M.avium complex. T/F
- Isonicotinic acid is activated by catalase-peroxidase. T/F
- Nicotinic acid hydrazide is metabolized by acetylation in the liver. T/F
- Slow acetylators are more prone to hepatotoxicity. T/F
- INH is indicated only in the treatment of T.B T/F
- Rifampin inhibits DNA gyrase. T/F
- Rifampin is bacteriostatic for M.tuberculosis. T/F
- Rifampin is a potent microsomal enzyme inducer. T/F
- Ethambutol causes retrobulbar neuritis. T/F
- Pyrazinamide can precipitate gouty arthritis. T/F
- Pyrazinamide is bacteriocidal at 5.5 pH T/F
- Ethionamide may discolour urine to orange-red. T/F

Q: Fill in the blanks with appropriate answers. (04)

- _____ Anti-T.B drug that inhibits microsomal enzymes.
- _____ Anti-T.B drug that is used prophylactically.
- _____ Anti-T.B drug with broad anti microbial spectrum.
- _____ Anti-T.B drug that causes loss of peripheral vision.
- _____ First line anti-T.B drug that is ototoxic.
- _____ Fluoroquinolone active against atypical mycobacteria.
- _____ Drugs active against mycobacterium avium complex.
- _____ A tetracycline active against M. marinum.
- _____ A second line anti-T.B that is cell wall synthesis inhibitor.
- _____ A second line anti-T.B that is folate synthesis inhibitor.

Q. Each statement contains two sentences separated by the word BECAUSE (08)

Place appropriate letter at the start of answer line according to the following code.

- A. Both sentences are true and causally related.
 - B. Both sentences are true but not causally related.
 - C. First sentence is true but second is false.
 - D. First sentence is false but second is true
 - E. Both sentences are false.
- Phenytoin toxicity increases with isonicotinic acid **BECAUSE** Isonicotinic acid reduces the metabolism of phenytoin.
 - INH is a prodrug **BECAUSE** it is activated in the liver by cytochrome P-450 microsomal enzymes.
 - Resistant strains of M.tuberculosis may be used in BCG vaccine **BECAUSE** INH used in the treatment of T.B would not kill them.

 - INH has mood elevating effect **BECAUSE** it is structurally similar to MAO inhibitor isocarboxazide.
 - Polytherapy is indicated in the treatment of T.B **BECAUSE** resistance to a single drug is developed rapidly by the M.tuberculosis.
 - Anti-TB drug treatment requires long periods of drug regimens administration **BECAUSE** M. tuberculosis is slowly growing and intracellular organism.
 - In T.B meningitis streptomycin is administered intravenously **BECAUSE** it achieves high levels by this route in CSF.
 - Anti-T.B drug regimens should be administered in daily divided doses **BECAUSE** the incidence of toxicity increases with single daily dose.