13 Interferon-alpha is used in the treatment of

Alternative 1 Asthma

Alternative 2 Hepatitis B and C

Alternative 3 Psoriasis

Alternative 4 Diabetes mellitus

14 Which of the following is a calcineurin inhibitor used as an immunosuppressant in organ transplantation

Alternative 1 Azathioprine

Alternative 2 Cyclosporine

Alternative 3 Methotrexate

Alternative 4 Cyclophosphamide

15 Sucralfate promotes healing of duodenal ulcer by:

Alternative 1 Enhancing gastric mucus and bicarbonate secretion

Alternative 2 Promoting regeneration of mucosa

Alternative 3 Coating the ulcer and preventing the action of acid-pepsin on ulcer base

Alternative 4 Neutralizing hydrochloric acid

16 Chronotherapy in hypertension involves

Alternative 1 Taking antihypertensives only on weekends

Alternative 2 Taking drugs in the early morning to prevent early morning BP surge

Alternative 3 Taking drugs with high-fat meals

Alternative 4 Taking diuretics at night

17 Which of the following drugs is used as an antispasmodic in Inflammatory Bowel Syndrome?

Alternative 1 Dicyclomine

Alternative 2 Omeprazole

Alternative 3 Ranitidine

Alternative 4 Loperamide

18 Which of the following is a long-acting β2-agonist used in asthma

Alternative 1 Salbutamol

Alternative 2 Terbutaline

Alternative 3 Formoterol

Alternative 4 Ipratropium

19 Which combination correctly pairs an enzymatic and a non-enzymatic antioxidant that work synergistically to reduce oxidative damage?

Alternative 1 Catalase and Vitamin D

Alternative 2 Superoxide dismutase and Vitamin E

Alternative 3 Glutathione reductase and Ubiquinone

Alternative 4 Lipoxygenase and Vitamin B12

20 The primary function of non-enzymatic antioxidant selenium in the body is as a co-factor for which enzyme?

Alternative 1 Catalase

Alternative 2 Glutathione peroxidase

Alternative 3 Superoxide dismutase

Alternative 4 Peroxidase

Q 2. Answer any two out of three **20 M**

1 Classify immunosuppressants. Discuss mechanisms of each class and their therapeutic uses.

2 Discuss pharmacotherapy of peptic ulcer and role of chrono pharmacology in management of peptic ulcer.

3 Discuss the therapeutic potential and mechanism of action of endogenous antioxidants superoxide dismutase, catalase, and glutathione peroxidase.

Q 3. Answer any seven out of nine **35 M**

1 Classify thyroid inhibitors and provide examples. Discuss the mechanism of action of each class.

2 Elaborate on the drugs used to overcome insulin resistance.

3 Discuss mechanism of action, adverse effects and therapeutic uses of fluoroquinolones antibiotics.

4 Write a note on Nucleoside reverse transcriptase inhibitors.

5 Discuss pharmacotherapy of Chronic Obstructive Pulmonary Disease (COPD)

6 Define Chrono pharmacology. Discuss any two applications of chronotherapy.

7 Classify antimalarial drugs Discuss in detail radical cure of malaria.

8 Classify antiemetic. Discuss treatment for motion sickness.

9 Briefly describe the mechanism of lipid peroxidation and its consequences in neurodegenerative diseases.

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