

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 5 EXAMINATION – SUMMER -2019

Subject Code: 2250005

Date: 06-06-2019

Subject Name: Pharmacology and Pharmacotherapeutics-I

Time: 02:30 PM TO 05:30 PM

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Give comment on following: **06**
(i) β -blockers may cause cold extremities.
(ii) Clonidine is anti-hypertensive agent.
(iii) Edrophonium is used in diagnosis of myasthenia gravis.
- (b) Write name of receptor involved and physiological response(s) produced by parasympathetic nerve activation in following organ: **05**
(i) Iris (ii) Small intestine (iii) Urinary bladder (iv) Heart (v) Salivary gland
- (c) Outline biosynthesis of prostaglandins. Discuss their physiological role. **05**
- Q.2** (a) Explain following: (i) Dale's vasomotor reversal (ii) Co-transmission **06**
(iii) Synaptic fatigue
- (b) Classify drugs used in migraine. Discuss role of 5-HT in pathogenesis of migraine. **05**
- (c) Write pharmacology of angiotensin. **05**
- Q.3** (a) Classify skeletal muscle relaxants. Write pharmacology of d-tubocurarine. **06**
- (b) Write pathogenesis of peptic ulcer. Classify drugs used in treatment of peptic ulcer. **05**
- (c) Discuss management of asthma. **05**
- Q.4** (a) Give comment on following: **06**
(i) Atropine is used as pre-anaesthetic medication.
(ii) α -blockers may produce postural hypotension.
(iii) Montelukast is used in treatment of asthma.
- (b) Describe management of diarrhoea with special emphasis on oral rehydration therapy. **05**
- (c) Classify anti-histaminic agents. Add a note on non-sedative anti-histaminic agents. **05**
- Q.5** (a) Draw diagrammatic representation of adrenergic transmission. Describe how action of nor-adrenaline is terminated at synapse? **06**
- (b) Write symptoms of organophosphorus poisoning. Describe role of pralidoxime in management of organophosphorus poisoning. **05**
- (c) Classify anti-emetics. Add a note on ondansetron. **05**
- Q. 6** (a) Classify local anaesthetic agents. Discuss various techniques of local anaesthesia in brief. **06**
- (b) Write etiology, symptoms and treatment for inflammatory bowel syndrome. **05**
- (c) Classify laxatives. Add a note on irritant laxatives. **05**

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| Q.7 | (a) | Describe type, pathogenesis and treatment for glaucoma. | 06 |
| | (b) | Discuss diagnosis and management of hepatitis A. | 05 |
| | (c) | Draw structure of nicotinic receptor. Write location and physiological role of nicotinic receptors in brief. | 05 |
