

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – II • EXAMINATION – WINTER 2013

Subject Code: 2920106**Date: 28-11-2013****Subject Name: Applied Pharmacotherapeutics-I****Time: 10.30 am - 01.30 pm****Total Marks: 80****Instructions:**

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

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| Q.1 | (a) Write in details about pathophysiology of hypertension. Explain the management of hypertension with algorithm. 06 |
| | (b) Enumerate antidiabetic drugs. Write a note on various types of insulin. 05 |
| | (c) Write a note on pathophysiology and management of peptic ulcer. 05 |
| Q.2 | (a) Enumerate various causes of Congestive Heart Failure. Write a note on beneficial and detrimental effects of the compensatory responses in heart failure. 06 |
| | (b) Define nausea and vomiting. Explain the pathophysiology and therapeutic plan of vomiting. 05 |
| | (c) Write a note on hypertensive emergencies and urgencies with its management. 05 |
| Q.3 | (a) Explain the normal ECG. Write a note on mechanisms of cardiac arrhythmias. 06 |
| | (b) Differentiate ulcerative colitis and Crohn's disease based on signs and symptoms as well as laboratory findings. Mention treatment recommendations for Crohn's Disease. 05 |
| | (c) Write a note on clinical presentation and diagnosis of Acute Myocardial Infarction. Mention a rationale for each pharmacological intervention in the management of AMI. 05 |
| Q.4 | (a) Explain the pathophysiology of asthma. Mention a therapeutic plan for patients with chronic asthma. 06 |
| | (b) Write a note various etiological hypotheses for Major depression disorder. 05 |
| | (c) Justify use of triptans in migraine management. 05 |
| Q.5 | (a) Explain the pathophysiology of cystic fibrosis (CF) and its multi-organ system involvement. 06 |
| | (b) Discuss pathophysiology and clinical features of hepatitis B. 05 |
| | (c) Enumerate signs and symptoms of COPD. Classify severity of COPD as per GOLD guidelines. List out treatment goals for a patient with COPD. 05 |
| Q.6 | (a) Enumerate various warning signs of Alzheimer's Disease. Write note pathophysiology of AD. 06 |
| | (b) Classify seizure types and suggest initial monotherapy treatment. 05 |
| | (c) Write a note on the management of Parkinson's disease with algorithm. 05 |
| Q.7 | (a) Discuss glucose homeostasis in normal and diabetic individual. Add a note on latent autoimmune diabetes in adults (LADA) and maturity onset diabetes of the young (MODY). 06 |
| | (b) Explain the pharmacological management of hyperlipidemia. 05 |
| | (c) Write a note on prediabetes conditions and discuss their management. 05 |
