

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM- SEMESTER - VIII - EXAMINATION- WINTER 2020

Subject Code: 2280004

Date: 08/01/2021

Subject Name: Pharmacology & Pharmacotherapeutics-IV

Time: 02:00PM TO 04:00PM

Total Marks: 54

Instructions:

1. Attempt any THREE questions from Q-1 to Q-6.
2. Q.7 is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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|-------------|--|-----------|
| Q. 1 | (a) Describe etiology, pathophysiology and complications of thrombosis. | 06 |
| | (b) Write a note on oral anticoagulants. | 05 |
| | (c) Discuss pharmacology of quinidine | 05 |
| Q.2 | (a) Classify hypolipidemic agents and explain the pharmacology of statins | 06 |
| | (b) Write a note on tocolytics. | 05 |
| | (c) Write a note on complications and treatment of iron deficiency anaemia. | 05 |
| Q.3 | (a) Classify anti-thyroid drugs and write their uses and adverse effects. | 06 |
| | (b) Describe the role of antiandrogens in treatment of prostate cancer. | 05 |
| | (c) Classify fibrinolytic agents and discuss pharmacology of streptokinase. | 05 |
| Q.4 | (a) Explain physiological significance of renin- angiotensin- aldosterone system. | 06 |
| | (b) Write a note on digoxin toxicity and its management. | 05 |
| | (c) Enlist selective estrogen receptor modulators (SERM) and describe pharmacology of tamoxifen. | 05 |
| Q.5 | (a) Explain the pharmacological basis of the following statements: | 06 |
| | (i) Nitroglycerine is used in cyanide poisoning. | |
| | (ii) Lidocaine for local anaesthetic purpose should not be used for arrhythmia. | |
| | (iii) ACE inhibitors causes dry cough. | |
| | (b) Justify the use of organic nitrates in angina pectoris. | 05 |
| | (c) Enlist various hormonal contraceptives and discuss their adverse effects. | 05 |
| Q.6 | (a) Explain the pharmacological basis of the following: | 06 |
| | (i) Desferrioxamine in iron poisoning. | |
| | (ii) Heparin should not be administered by intramuscular route. | |
| | (iii) Protamine sulfate in heparin overdosage. | |
| | (b) Write a short note on aromatase inhibitors. | 05 |
| | (c) Write a short note on pharmacology of plasma volume expanders. | 05 |
| Q.7 | (a) Describe complications, treatment and management of osteoporosis. | 06 |
| | OR | |
| | (a) Write a note on potassium sparing diuretics. | 06 |
| | OR | |
| | (a) Discuss pharmacology of sildenafil. | 06 |