

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. Ph. - SEMESTER– V• EXAMINATION – WINTER-2021****Subject Code: BP502TP****Date: 15/12/2021****Subject Name: Pharmacology II****Time: 10:30am to 01:30pm****Total Marks: 80****Instructions:**

- I. Question No. 1 is compulsory.
- II. Attempt any FOUR Questions from Question No. 2 to 7.
- III. Make suitable assumptions wherever necessary.
- IV. Figures to the right indicate full marks.

**Q.1****Questions****16**

1. Which of the following is INCORRECT for Warfarin:
 

A Oral anticoagulant	B Interfere with hepatic synthesis of Vitamin K.
C Does not absorb orally	D Require frequent blood test to individualize dose
2. Which of the following hormones is produced by the thyroid gland?
 

A Thyroxine	B Thyroid-stimulating hormone
C Thyrotropin-releasing hormone	D Thyroglobulin
3. Which of the following is characteristic action of Tocolytics
 

A Prevent uterine atony	B Delay labor
C Induce labor	D Control and prevent postpartum hemorrhage
4. Which of the following is HMG Co-A reductase inhibitor used to treat hyperlipidemia?
 

A Profibrate	B Pravastatin
C Pralatrexate	D Pralidoxime
5. Which of the following is a nonselective beta adrenoreceptor antagonist used in treatment of hypertension?
 

A Atenolol	B Metoprolol
C Acebutolol	D Propranolol
6. Which of the following biological agent is used in treatment of rheumatoid arthritis:
 

A Ibuprofen	B Infliximab
C Ibutilide	D Inamrinone
7. Which of the following is selective 5-HT<sub>3</sub> antagonists that have shown remarkable efficacy in controlling nausea and vomiting:
 

A Clozapine	B Risperidone
C Ergotamine	D Ondansatron
8. Which of the following is INCORRECT statement with respect to cardiac glycoside?
 

A They act by inhibiting the activity of the Na <sup>+</sup> /K <sup>+</sup> -ATPase	B They increase intracellular concentrations of calcium in myocytes
C Digoxin has a longer half-life than digitoxin	D They increase vagal tone
9. Which of the following drug is/are characteristic Uricosuric agent:
 

I. Allopurinol	II. Probenicid	III. Sulfinpyrazole	IV. Febuxostat
A I and II	B I and III	C II and III	D I and IV
10. Calcitonin administration are indicated for the following conditions, EXCEPT:
 

A Paget's disease	B Hypercalcemia
C Osteoporosis	D Hypophosphatemia

11. Which of the following organs is a main target for prolactin?  
 A Mammary gland B Adrenal cortex  
 C Thyroid D Liver
12. \_\_\_\_\_ is used as abortifacient as per Medical Termination of Pregnancy Act.  
 A Tamoxifen B Mifepristone  
 C Metformin D Macimorelin
13. \_\_\_\_\_ is a Class IA antiarrhythmic agent:  
 A Atenolol B Quinidine  
 C Propranolol D Nifedipine
14. \_\_\_\_\_ vasodilator category of agent is used for the treatment of emergency hypertension.  
 A Quinidine B Minoxidil  
 C Propranolol D Verapamil
15. Which of the following drug possesses significant Antidiuretic property?  
 A Oxytocin B Vasopressin  
 C Oxacarbazepine D Verapamil
16. Which of the following is centrally acting antihypertensive agent?  
 A Saralasin B Captopril  
 C Clonidine D Nebivolol

- Q.2** (a) Classify Non-steroidal anti-inflammatory agents. Differentiate between COX1 and COX2 inhibitors with suitable examples. **6**  
 (b) Explain the therapeutic uses of calcium channel blockers with their mechanism of action. **5**  
 (c) Write mechanism of action, pharmacokinetics, therapeutic uses and adverse effects of nitroglycerin. **5**
- Q.3** (a) Classify Antiarrhythmic agents. Write a note on Quinidine. **6**  
 (b) Write a note on plasma volume expanders. **5**  
 (c) Differentiate between Fibrinolytic and anti-platelet agents with suitable examples. **5**
- Q.4** (a) Classify antihyperlipidemic agents. Explain the role of fibrates as lipid lowering agent. **6**  
 (b) What is Congestive Cardiac Failure? Write mechanism of action, pharmacological actions and adverse effects of cardiac glycosides. **5**  
 (c) Classify diuretics. Write mechanism of action and adverse effects of thiazide diuretics. **5**
- Q.5** (a) Classify antihypertensive agents. Write a note on ACE inhibitors. **6**  
 (b) What are autacoids? Write a note on H<sub>1</sub> receptor antagonists. **5**  
 (c) Explain in brief: Disease modifying antirheumatic drugs (DMARDs). **5**
- Q.6** (a) Classify oral hypoglycemic agents. Write a note on Metformin. **6**  
 (b) Explain in brief bioassay of vasopressin and oxytocin **5**  
 (c) Write the role of Parathormone, calcitonin and Vitamin D in regulation of plasma calcium level. **5**
- Q.7** (a) What are contraceptives? Explain pharmacology of female oral contraceptives. **6**  
 (b) Write a note on thromboxanes inhibitors **5**  
 (c) Write therapeutic uses and adverse effects of corticosteroids **5**

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