

**B. PHARM.
FIFTH SEMESTER
MEDICINAL CHEMISTRY-II
BP501T [SPECIAL REPEAT]
[USE OMR SHEET FOR OBJECTIVE PART]**

**SET
A**

Duration: 3 hrs.

Full Marks: 75

[PART-A: Objective]

Time: 30 min.

Marks: 20
1×20=20

Choose the correct answer from the following:

- Nateglinide is a
 - Sulfonyl Ureas
 - Glucosidase Inhibitors
 - Biguanide
 - Meglitinide
- Statins act by
 - Inhibition of HMG CoA Reductase
 - Inhibition of Platelet Agregation
 - Inhibition of Neovascularization
 - Increased Fibrinolysis
- Which enzyme converts angiotensinogen to angiotensin-I?
 - Renin
 - ACE
 - ACE inhibitor
 - None
- Ramipril is an example of
 - Beta blockers
 - ACE Inhibitors
 - Alpha blockers
 - Calcium channel blockers
- T₃ stands for
 - Triiodothyronine
 - Triiodothyroxine
 - Thyroxine
 - Thyronine
- Amongst given which is a local anesthetic ---
 - Halothan
 - Spiranolactone
 - Lignocaine
 - None of the above
- Which of the following belongs to Dihydropyridine CCB's
 - Nicorandil
 - Nifedepine
 - Amloride
 - Amiodarone
- One of the following drug act by sequestering the bile acid in GIT
 - Gemfibrosil
 - Coronary stent
 - Colestipol
 - Probucol
- The drug which is used as diuretics and hair care product is
 - Mannitol
 - Minoxidil
 - Mephalan
 - Diazoxide

10. Flecainide belongs to which class
- | | |
|-------------|-------------|
| a. Class 1A | b. Class 1B |
| c. Class 1C | d. Class 1D |
11. The Na⁺-Cl⁻ symport in the early distal convoluted tubule of the kidney is inhibited by
- | | |
|--------------|---------------------|
| a. Thiazides | b. Metolazone |
| c. Xipamide | d. All of the above |
12. Which antineoplastic agent is folic acid analogue
- | | |
|-----------------|--------------------|
| a. Methotrexate | b. Mercaptopurine |
| c. Cisplatin | d. Mechlorethamine |
13. One of these local anaesthetic drug is also used in arrhythmia
- | | |
|---------------|----------------|
| a. Procaine | b. Cinchocaine |
| c. Lignocaine | d. Amethocaine |
14. Which is a non selective alpha and beta blocker_____
- | | |
|----------------|---------------------|
| a. propranolol | b. prazosin |
| c. labetalol | d. phenoxybenzamine |
15. Which of the following is an Aldosterone Antagonist
- | | |
|-------------------|--------------|
| a. Bumetanide | b. Amiloride |
| c. Spiranolactone | d. b and c |
16. Ethacrynic acid is a
- | | |
|-------------------|----------------------------------|
| a. Loop Diuretics | b. High Efficacy Diuretics |
| c. A and b | d. Carbonic Anhydrase Inhibitors |
17. Which of the following is not the function of an oral pill?
- | | |
|-------------------------|---|
| a. Inhibit ovulation | b. Inhibit heart development in the fetus |
| c. Inhibit implantation | d. Inhibit entry of sperms |
18. Corpus luteum secretes_____
- | | |
|-----------------------|---------------------------------|
| a. Progesterone | b. Estrogen |
| c. Lutenizing hormone | d. Follicle stimulating hormone |
19. Which one of the following drug belongs to class nitrosoureas
- | | |
|-------------|----------------|
| a. Thiotepa | b. Lomustine |
| c. Busulfan | d. Decarbazine |
20. Which of the following hormonal dosage is given as an oral administration to prevent pregnancy?
- | | |
|--------------|-----------------|
| a. Relaxin | b. Progesterone |
| c. Estradiol | d. Epinephrine |

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(PART-B : Descriptive)

Time : 2 hrs. 30 min.

Marks : 35

[Answer any seven (7) questions]

1. What are anti hyperlipidemic agents? Explain the mechanism of action of Statin. Write the structure and uses of Clofibrate. 1+2+2
=5
2. Write Short note on Oral Contraceptives. 5
3. Define angina pectoris? Write the MOA of Nitrates? Write the Synthesis and uses of nitroglycerine. 1+2+2
=5
4. Define and classify Diuretics with example. 1+4=5
5. Write a note on thyroid hormone and anti thyroid drugs. 2.5+2.5
=5
6. Define Diabetes Mellitus. Write its types. Write the role of Insulin. Write the name of secreted hormone of Alpha, Beta present in Pancreas 1+2+1+
1=5
7. Write the structure and specific uses of
i) Furosemide, ii) Nitroglycerine iii) Hydralazine iv) Captopril
v) Clonidine 1+1+1+
1+1=5
8. Write the Synthesis of Benzocaine and Acetazolamide and write their uses. 2.5+2.5
=5
9. Define Anti arrhythmic agent. Classify them with suitable example. Write the structure and uses of Procainamide. 1+2+2
=5

(PART-C: Long type questions)

[Answer any two (2) questions]

- | | |
|--|--------------|
| 1. What are anti neoplastic agents. Classify them with example? Outline the synthesis of Methotraxate. | 1+6+3
=10 |
| 2. Define and classify Local Anaesthetic. Write the SAR of Benzoic Acid Derivative. | 1+3+6
=10 |
| 3. Define and Classify antihypertensive agents? Write the synthesis of Methyl Dopa. | 1+7+2
=10 |

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