



Dr. Babasaheb Ambedkar Technological University  
Vidyavihar, Lonere, Dist. Raigad

**SUMMER END SEMESTER PRACTICAL EXAMINATION AY 2020-21**

Center Code: 5448	Course: T.Y. B. Pharm	Semester: VI
Day & Date: 07.07.2021	Batch: A	Time: 8:00am-12:00pm
Subject and Code: - BP607P		Total Marks:35

**Q1. Synopsis (Multiple Choice Questions)**

**20 marks**

1. What is correct Molecular Formula of Resorcinol
  - a. C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>
  - b. C<sub>10</sub>H<sub>8</sub>O<sub>3</sub>
  - c. C<sub>9</sub>H<sub>8</sub>O<sub>4</sub>
  - d. C<sub>6</sub>H<sub>7</sub>O<sub>3</sub>
2. Coumarin synthesis involves which of the following named reaction
  - a. Bechman Rearrangement
  - b. Suzuki Coupling
  - c. Pechmann Reaction
  - d. Hoffman Degradation
3. Chlorobutanol is synthesized in presence of
  - a. H<sub>2</sub>SO<sub>4</sub>
  - b. HCl
  - c. NaOH
  - d. KOH
4. 7-Chloro,7-hydroxy derivative belonging from the Lincomycin class is
  - a. Erythromycin
  - b. Clindamycin hydrochloride
  - c. Lincomycin Hydrochloride
  - d. Vancomycin hydrochloride
5. Hexamine also Known as
  - a. Methanamine
  - b. Hexamethylenetetramine
  - c. Urotropin
  - d. All of the above
6. Adamantane is present in the structure of the
  - a. Hexamine
  - b. Coumarin
  - c. Chlorobutanol
  - d. None of the above
7. -----is a major metabolic route of Chloramphenicol
  - a. Reduction of p-nitro group
  - b. Hydrolysis of amide
  - c. 3-O-glucuronide
  - d. Hydrolysis of  $\alpha$  chloroacetamido group
8. Find Odd Pair
  - a. Streptomycin : Streptomyces mediterrani
  - b. Rifampicin : Streptomyces griseus
  - c. Cycloserine : Isooxazole
  - d. Ethambutol : Ethelene diamine
9. Continuation Phase in DOTS
  - a. IHN + EMB
  - b. INH+ Any of the EMB/RIF/Streptomycin
  - c. Only INH
  - d. None of the above
10. Identify incorrect
  - a. Filariasis: Wucheria bancrofti, Brugia timori, Brugia malayi
  - b. Ascariasis : Nectar americanus
  - c. Trichuris trichiura : Whipworm infections
  - d. Schistosomiasis : Schistosoma Haematobium, Schistosoma mansoni, Schistosoma japonicum

11. Identify GABA agonist anti-helmintic
  - a. Ivermectin
  - b. Praziquantel
  - c. DEC
  - d. Thiabendazole
12. Crystalluria is most common side effect of
  - a. Sulfapyrine
  - b. Sulfathiazole
  - c. Sulfadiazine
  - d. occurs at neutral or acidic urinary pH
  - e. All of the above
13. Which among below are only topically used Aminoglycosides
  - a. Neomycin
  - b. Framycetin
  - c. Both of the above
  - d. Tobramycin
14. Cephalosporins containing an N-methyl-5-thiotetrazole (MTT) moiety at the 3-position leads to
  - a. Hypoprothombinemia
  - b. Allergy
  - c. Hypersensitivity
  - d. All of the above
15. Which of the following is classified as monobactam?
  - a. Tazobactam
  - b. Sulbactam
  - c. Sulfazecin
  - d. Clavulinic acid
16. Which of the following drug was used as antirheumatics in early 1950's and currently withdrawn due to renal & corneal toxicity?
  - a. Chloroquine
  - b. Arteether
  - c. Primaquine
  - d. Amodiaquine
17. Blockade of metabolic site of quinine with CF<sub>3</sub> group results in following
  - a. Primaquine
  - b. Halofantrine
  - c. Lumefantrine
  - d. Mefloquine
18. Positive value of pi indicates that
  - a. Substituent is more hydrophobic
  - b. Substituent is less hydrophobic
  - c. Substituent is neutral
  - d. Substituent has lower liphophilicity
19. Positive value of Hammett constant indicates
  - a. Substituent is electron withdrawing
  - b. Substituent has no effect on drug permeability
  - c. Substituent is electron Donating
  - d. None of the above
20. While Docking studies we only require 3-Dimensional structure of the target not Ligand
  - a. True
  - b. False

**QII. Viva Voce**

**15 marks**

  
**Name & Signature**

**Internal Examiner**

**(Ms. Mrunali Patil)**

**Name & Signature**

**External Examiner**

**(Mr. Lala Rathod)**



Dr. Babasaheb Ambedkar Technological University  
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**SUMMER END SEMESTER PRACTICAL EXAMINATION AY 2020-21**

Center Code: 5448	Course: T.Y. B. Pharm	Semester: VI
Day & Date: 07.07.2021	Batch: B	Time: 1:00pm-5:00pm
Subject and Code: - BP607P		Total Marks:35

**Q1. Synopsis (Multiple Choice Questions)**

**20 marks**

- Hammett Constant is denoted by
  - $\sigma$
  - $\pi$
  - $\infty$
  - Log p
- Amphotericin B is
  - Antimalarial
  - Antifungal
  - Anthelmintic
  - Antiprotozoal
- Mode of action : Metronidazole
  - Causes cytotoxicity by forming reactive radicals
  - Inhibits protein synthesis
  - Inhibits ergosterol synthesis
  - None of the above
- Causative agent of Amoebiasis is
  - Plasmodium falciparum
  - Entamoeba Histolytica
  - Giardia lamblia
  - All of the above
- Trimethoprim mode of action
  - Incorporation instead of PABA
  - Dihydropteroate synthase inhibitor
  - Dihydrofolate reductase enzyme inhibitor
  - None of the above
- Sulfonamide are bacteriostatic drug
  - True
  - False
- Penicillin contains following chiral carbon (s) except
  - C-6
  - C-2
  - C-5
  - C-3
- Chloramphenicol shows
  - Hypersensitivity
  - Blood Dyscrasia
  - Grey Baby Syndrome
  - Both B and C
- Urotropine is
  - Antiviral
  - Urinary tract antiinfective
  - Antimalarial
  - Antifungal
- Isoniazid acts on
  - E. Histolytica
  - Streptomyces venezulae
  - M.Tuberculosis

- d. P.Vivax
11. In QSAR Physicochemical properties are calculated and correlated with Biological Activity
- True
  - False
12. Serendipity is
- Rational approach of drug discovery
  - Old approach of drug Discovery
  - Moder approach of drug discovery
  - None of the above
13. Identify the amino sugar containing antibiotics
- Tetracycline
  - Penicillin
  - Amphotericin B
  - Aminoglycoside
14. 5:1 is fixed dose combination ratio of
- Cotrimoxazole
  - Cotrimazine
  - Both a and b
  - Can't say
15. What does the symbol P represent in a QSAR equation?
- pH
  - Plasma concentration
  - Partition coefficient
  - Prodrug
16. Ligand based approach is Hit optimization approach
- True
  - False
17. Molecular Formula of 7-hydroxy-4-methyl coumarin
- C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>
  - C<sub>10</sub>H<sub>8</sub>O<sub>3</sub>
  - C<sub>4</sub>H<sub>7</sub>Cl<sub>3</sub>O
  - C<sub>3</sub>H<sub>3</sub>O
18. Triphenylimidazole is synthesized from
- Acetone
  - Benzil
  - Chloroform
  - Resorcinol
19. For Drawing of Chemical Structure which tool (s) is (are) used
- Chemdraw
  - Marvin Sketch
  - Chem sketch
  - All of the above
20. Pyrazinamide is
- First line Anti TB Drug
  - Second Line Anti TB Drug
  - Third Line Anti TB drugs
  - All of the above

**QII. Viva Voce**

**15 marks**

  
**Name & Signature**

**Internal Examiner**

**(Ms. Mrunali Patil)**

**Name & Signature**

**External Examiner**

**(Mr. Lala Rathod)**

Summer End Semester Practical Examination AY 2020-2021

Class: T.Y.B. Pharm Date: 07/07/2021 Time: 8:00am-12:00pm

Roll No: \_\_\_\_\_

1. Email \*

2. Name of the Student \*

3. Roll Number \*

4. PRN Number \*

5. T.Y.B. Pharm Class \*

- A Division
- B Division

6. What is correct Molecular Formula of Resorcinol \*

- C6H4O2
- C10H8O2
- C6H6O4
- C6H7O2

7. Coumarin synthesis involves which of the following named reaction \*

- Baeyer Rearrangement
- Suzuki Coupling
- Pechmann Reaction
- Hofmann Degradation

8. Chlorobutanol is synthesized in presence of \*

- H2SO4
- HCl
- NaOH
- KOH

9. 7-Chloro-7-hydroxy derivative belonging from the Lincosamycin class is \*

Mark only one oval

- Erythromycin
- Clindamycin hydrochloride
- Lincosamycin Hydrochloride
- Vancomycin hydrochloride

10. Hexamine also known as \*

Mark only one oval

- Methanamine
- Hexamethylsulfatamine
- Nitrogen
- All of the above

11. Adamanthane is present in the structure of the \*

Mark only one oval

- Hexamine
- Cocaine
- Chlorbutolol
- None of the above

12. \_\_\_\_\_ is a major metabolic route of Chloramphenicol \*

Mark only one oval

- Reduction of penicillin group
- Hydrolysis of amide
- 3-Oxidation
- Hydrolysis of orthoacetamide group

13. First Odd Pair \*

Mark only one oval

- Streptomycin - Streptomycin methanesulphonate
- Rifampicin - Streptomycin glycoxy
- Erythromycin - Isoxazole
- Ethambutol - Ethambutolamine

14. Continuation Phase in DOTS \*

Mark only one oval

- INH-EMB
- INH-Any of the EMB/2HR/Streptomycin
- Only INH
- None of the above

15. Identify incorrect \*

Mark only one oval

- Filanase - Wucheria bancrofti, Brugia imoni, Brugia malayi
- Ataccasis - Nectar americana
- Trichuris trichiura - Whipworm infections
- Schistosoma mansoni - Schistosoma japonicum

16. Identify GABA agonist antiepileptic \*

Mark only one oval

- Irimectin
- Praziquantel
- DEC
- Thiabendazole

17. Crystalluria is most common side effect of \*

Mark only one oval

- Sulfapyridine
- Sulfathiazole
- Sulfadiazine
- occurs at neutral or acidic urinary pH
- All of the above

18. Which among below are only topically used Aminoglycosides \*

Mark only one oval

- Neomycin
- Framicetin
- Both of the above
- Tobramycin

19. Cephalosporins containing an N-methyl-5-thiothiazolidine moiety at the 3-position leads to \*

Mark only one oval

- Hypersensitization
- Allergy
- Hypersensitivity
- All of the above

20. Which of the following is classified as monobactam \*

Mark only one oval

- Ticarcillin
- Subramin
- Sulfoxon
- Clavulanic acid

21. Which of the following drug was used as antirheumatics in early 1950's and currently withdrawn due to renal & corneal toxicity \*

Mark only one oval

- Chloroquine
- Arsether
- Promazine
- Amoclozime

22. Efficacy of metabolic site of quinone with C13 group results as following \*

Mark only one oval

- Promazine
- Mefenazine
- Lumeferazine
- Mefloquine

23. Positive value of pI indicates that \*

Mark only one oval

- Substituent is more hydrophobic
- Substituent is less hydrophobic
- Substituent is neutral
- Substituent has lower lipophilicity

24. Positive value of Hammett constant indicates \*

Mark only one oval

- Substituent is electron withdrawing
- Substituent has no effect on drug permeability
- Substituent is electron Donating
- None of the above

25. While Docking studies we only require 3-Dimensional structure of the target not ligand \*

Mark only one oval

- True
- False

*MPT-1*



### Summer End Semester Practical Exam AY 2020-21

Subject: APharm (18PH019) Class: 1<sup>st</sup> Yr. Pharm Date: 07 July 2021

Time: 1:00pm-2:00pm Batch: B

1. Email \*

2. Name of students \*

3. Roll Number \*

4. FBN Number \*

5. T.Y.E. Pharm Class \*

- A Division
- B Division

6. Hammett Constant is denoted by \*

- $\sigma$
- $\rho$
- $\sigma^+$
- $\sigma^-$

7. Amphotericin B is \*

- Antimicrobial
- Antifungal
- Antihelmintic
- Antiparasitic

8. Mode of action: Metronidazole \*

Mark only one oval

- Causes cytotoxicity by forming reactive radicals
- Inhibits protein synthesis
- Inhibits egypteral synthesis
- None of the above

9. Causative agent of Amoebiasis is \*

Mark only one oval

- Plasmodium falciparum
- Entamoeba histolytica
- Giardia lamblia
- All of the above

[https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF\\_JaJ4xPOXqCUB8l0gc/edit](https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF_JaJ4xPOXqCUB8l0gc/edit)

1/4

17. Serendipity is \*

Mark only one oval

- Rational approach of drug discovery
- Old approach of drug discovery
- Modern approach of drug discovery
- None of the above

18. Identify the amino sugar containing antibiotics \*

Mark only one oval

- Tetracycline
- Penicillin
- Amphotericin B
- Aminoglycoside

19. 5:1 is fixed dose combination ratio of \*

Mark only one oval

- Cotrimoxazole
- Cotrimazole
- Bich a and U
- Cephalexin

20. What does the symbol P represent in a QSAR equation \*

Mark only one oval

- pH
- Plasma concentration
- Partition coefficient
- Prolog

21. Ligand based approach is Hit optimization approach \*

Mark only one oval

- True
- False

22. Molecular Formula of 7-hydroxy-4-methyl coumarin \*

Mark only one oval

- C<sub>11</sub>H<sub>10</sub>O<sub>2</sub>
- C<sub>11</sub>H<sub>10</sub>O<sub>3</sub>
- C<sub>11</sub>H<sub>12</sub>O<sub>2</sub>
- C<sub>11</sub>H<sub>12</sub>O

23. Triphenylmetazocin is synthesized from \*

Mark only one oval

- Acetone
- Benzil
- Chloroform
- Benzoinol

[https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF\\_JaJ4xPOXqCUB8l0gc/edit](https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF_JaJ4xPOXqCUB8l0gc/edit)

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10. Trimethoprim mode of action \*

Mark only one oval

- Inhibition of DHPS
- Dihydropteroate synthase inhibitor
- Dihydrofolate reductase enzyme inhibitor
- None of the above

11. Sulfonamide are bacterostatic drugs \*

Mark only one oval

- True
- False

12. Penicillin contains following chiral carbon(s) except \*

Mark only one oval

- C-6
- C-2
- C-5
- C-3

13. Chloramphenicol slows \*

Mark only one oval

- Hypertension
- Blood Depression
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- Antiviral
- Urinary tract anti-infective
- Antimalarial
- Antifungal

15. Isoniazid acts on \*

Mark only one oval

- L. Hasegata
- Streptococcus viridans
- M. Tuberculosis
- P. fovea

16. In QSAR Physicochemical properties are calculated and correlated with Biological Activity \*

Mark only one oval

- True
- False

[https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF\\_JaJ4xPOXqCUB8l0gc/edit](https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF_JaJ4xPOXqCUB8l0gc/edit)

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24. For Drawing of Chemical Structure which tool(s) is (are) used \*

Mark only one oval

- ChemDraw
- Marvin Sketch
- Chem sketch
- All of the above

25. Pyrazinamide is \*

Mark only one oval

- First line Anti-TB Drug
- Second Line Anti-TB Drug
- Third Line Anti-TB drugs
- All of the above

The search was conducted on 07/08/2021  
Google Forms

*MPAL*

[https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF\\_JaJ4xPOXqCUB8l0gc/edit](https://docs.google.com/forms/d/1pjhv-XoChnBM6P1k0K2brJF_JaJ4xPOXqCUB8l0gc/edit)

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