GOVERNMENT DEGREE COLLEGE
RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSES

2020-21

YEAR	NO OF CERTIFICATE COURSES	NAME OF THE CERTIFICATE COURSE
2020-21	1	MEDICINAL CHEMISTRY

GOVERNMENT DEGREE COLLEGE RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

TO ***RAMPACHODAVARAM***

THE PRINCIPAL ***25-10-2020***

GOVERNAMENT DEGREE COLLEGE
RAMPACHODAVARAM

Sir,

Sub: Application submitted for seeking permission to conduct CERTIFICATE COURSE in MEDICINAL CHEMISTRY req reg.

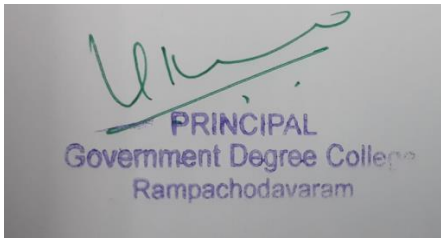
On the occasion of celebration of National Science day,we are planning to conduct a quiz programme to II YEAR BSC MPC&BZC students.

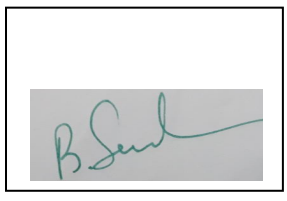
This is for your kind information.So kindly grant me permission to conduct CERTIFICATE COURSE IN MEDICINAL CHEMISTRY
From 01-11-2020 to 31-12-2020[60 Hrs]

Thanking you sir

Yours faithfully

B SURENDRA





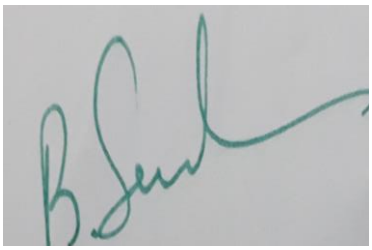
GOVERNMENT DEGREE COLLEGE

RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

CIRCULAR

The Department of Chemistry is planned to conduct a certificate course in MEDICINAL CHEMISTRY for II BSc MPC&BZC Students from 01-11-2020 to31-12-2020[60 Hrs]. The students who are interested may participate according to circular and report to department of chemistry.



B Surendra

LECTURER IN CHEMISTRY

GOVERNMENT DEGREE
COLLEGERAMPACHODAVARAM
Alluri Seetha Ramaraju District
www.gdcrampachodavaram.ac.in

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN MEDICINAL CHEMISTRY

For II B.Sc STUDENTS

Duration of the course : **60hours** (1st NOV 2020 TO 30 DEC 2020)

No. of participants : **20**

A Brief Report

The Department of Chemistry, Government Degree College Rampachodavaram, conducted a Certificate course in Medicinal Chemistry for II B.Sc students of the college from 01-11-2020 to 30-12-2020

The Department of chemistry submitted letter to the Principal to grant permission for conducting the Certificate Course. The Principal scrutinized the Syllabus and permitted to conduct the course and suggested to conduct an entry test for all II B.Sc students

The entry level test was conducted on 1-11-2020 to assess the knowledge in basics of Chemistry. Every day from4.p.m to 5p.m classes were held for the enrolled students. The Principal frequently visited the class and assessed the knowledge acquired by the students. A total of twenty number of students were participated in the Certificate course.

On the final day the end examination conducted for 75 marks under the supervision of principal and Chemistry Department in-charge . The results were published and certificates were issued.

CERTIFICATE COURSE IN MEDICINAL CHEMISTRY

Course Structure

1. Theory : **30 hours**
2. Hands on experience :10 **hours**
3. Practical : **20 hours**
4. Entry test : 20 marks
5. Final test : 40marks
6. Practical :20
7. Viva- voice : 15 marks
8. Grading : A , B, C & D

Scope: This subject is designed to impart fundamental knowledge on the structure chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.

Objectives: Upon completion of the course the student shall be able to

1. understand the chemistry of drugs with respect to their pharmacological activity
2. understand the drug metabolic pathways, adverse effect and therapeutic value of drugs
3. know the Structural Activity Relationship (SAR) of different class of drugs
4. write the chemical synthesis of some drugs

Course Content:

Study of the development of the following classes of drugs, Classification, mechanism of action, uses ofdrugs mentioned in the course, Structure activity relationship of selectiveclass of drugs as specified in the course and synthesis of drugs superscripted

UNIT	Topics	% weightage
1.	**Introduction to Medicinal Chemistry** **History and development of medicinal chemistry** **Physicochemical properties in relation to biological action** Ionization, Solubility, Partition Coefficient, Hydrogen bonding, Protein binding, Chelation, Bioisosterism, Optical and Geometrical isomerism.**Drug metabolism** Drug metabolism principles- Phase I and Phase II. Factors affecting drug metabolism including stereo chemical aspects	40
2.	**Drugs acting on Autonomic Nervous SystemAdrenergic Neurotransmitters:** Biosynthesis and catabolism of catecholamine. Adrenergic receptors (Alpha & Beta) and their distribution. **Sympathomimetic agents: SAR of Sympathomimetic agents** Direct acting: Nor-epinephrine, Epinephrine, Phenylephrine*, Dopamine Methyldopa, Clonidine, Dobutamine, Isoproterenol, Terbutaline, Salbutamol*, Bitolterol, Naphazoline, Oxymetazoline and Xylometazoline. Indirect acting agents: Hydroxyamphetamine, Pseudoephedrine,Propylhexedrine. Agents with mixed mechanism: Ephedrine, Metaraminol. **Adrenergic Antagonists:** **Alpha adrenergic blockers:** Tolazoline*, Phentolamine, Phenoxybenzamine, Prazosin, Dihydroergotamine, Methysergide. **Beta adrenergic blockers:** SAR of beta blockers, Propranolol*, Metibranolol, Atenolol, Betazolol, Bisoprolol, Esmolol, Metoprolol,Labetolol, Carvedilol.	30
3	**I Preparation of drugs/ intermediates[Practical]** 1. **PARACETMOL** 2. **ASPIRIN** 3. **IBUPROFEN**	30

Recommended Books (Latest Editions)

1. Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.
2. Foye's Principles of Medicinal Chemistry.
3. Burger's Medicinal Chemistry, Vol I to IV.
4. Introduction to principles of drug design- Smith and Williams.
5. Remington's Pharmaceutical Sciences.
6. Martindale's extra pharmacopoeia.
7. Organic Chemistry by I.L. Finar, Vol. II.
8. The Organic Chemistry of Drug Synthesis by Lednicer, Vol. 1-5.
9. Indian Pharmacopoeia.
10. Text book of practical organic chemistry- A.I.Vogel.

GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM

DEPARTMENT OF CHEMISTRY

MEDICINAL CHEMISTRY **Entry Exam 2020-2021**

TIME: 30 Minutes Max. Marks: 20 Marks

Answer All Questions

1) Which of the following is a macrolide antibiotic?

a. Kanamycin b. Minocycline c. Erythromycin d. Neomycin

2) is a very good example of a bactericidal drug

a. Clindamycin b. Tetracyclin
c. Sulfamethoxazole d. Ciprofloxacin

3) Which of following is a prodrug?

b. Ampicillin b. Chloroquine c. enalapril d. Amphotericin

4) Protease inhibitors block... part of viral cycle.

c. Cell attachment b. Cell entry
c. Replication d. Maturation and release

5) Penicillin contains..... ring

d. Imidazole b. oxazolidine c. Quinazolidine d. β – Lactam

6) Reverse transcriptase enzyme is …… type of enzyme

e. Oxidoreductase b.Transferase c. Hydrolase d. Isomerase

7) Which of the following is not true for docking simulations?

f. It is used for virtual screening
g. It provides lead compounds quickly
h. It facilitates quick drug discovery
i. Protein structure is not needed for this experiment

8) In tetracyclin, the phenolic hydroxy group shows a pKa value in the range

a. 2-3 b. 5-6 c. 6-7 d. 9-10

9) is not a part of DOTS regimen used for TB treatment

a. Rifampicin b. Ethambutol c. Isoniazide d. Moxifloxacin

10) Isonicotinic acid hydrazide is synthesized from …..

a. Pyridine 2-carboxylic acid
b. Pyridine 3-crboxylic acid
c. Pyridine 4-carboxylic acid
d. Piperazine 2-carboxylic acid

11]Scabies can be effectively treated by using the drug.

e. Albendazole b. Niclosamide c. Oxacycline d. Ivermectin

12)Which of the following is an8-aminoquinoline?

f. Primaquine b. Chloroquine c. Amodiaquine d. Pyronaridine
g. The substitution at C-7 of fluoroquinoline is involved in ……. of activity
h. Binding to DNA gyrase
i. Bacterial cell penetration

13) Calcium is chemically incompatible with … a.Penicillins b. Tetracyclins c. Cephalosporins d. Macrolides

14)Nalidixic acid contains .....number of nitrogens

a. 1 b. 2 c. 3 d. 4

15) is not the reason for failure of first generation penicillins

a. Very low renal clearance
b. Orally not bioavailable
c. High incidence of drug resistance
d. Narrow spectrum of activity

16) block the synthesis of …….

e. Sulfonamides DNA b. RNA c. Proteins d. folic acid

17) Cycloserine is ……..

a. 4-aminoisoxazolidin-3-one b. 3-aminoisoxazolidin-2-one
c. 2-aminoisoxazolidin-3-one d. 4-aminoisoxazolidin-2-one

18)Synergistic effect can be seen in case of combination of drugs with …….

b. Similar chemical structure
c. Similar mechanism of action
d. Different chemical structure
e. Different mechanism of action

19)factor indicated 3D properties of an organic compound

f. Field b. Electronic c. Inductive d. Steric

20) Penciline contains …….. ring

a.Imidazole

b.oxzolidine

c.Quinazolidine

D.β-Lactam

GOVERNMENT DEGREE COLLEGE
RAMPACHODAVARAM
DEPARTMENT OF CHEMISTRY Certifiacte Course on Medicinal Chemistry For 2020-2021
Final Exam

TIME: 1 Hour 30 Minutes Max. Marks: 50 Marks

Section -A

Answer All Questions 4x 10 =40 Marks

1. Write a note on (10 M)
   a. Betalactamase inhibitors b. Artemether
2. Write the synthesis, MOA and uses of (10 M)
   a. Nitrofurantoin b. Acyclovir
3. Write in detail on Azole antifungal drugs. (10 M)
4. Write a detail note on Azole anti-fungal drugs (10M)

Section -B

Answer All Questions, Each Question Carries 15 Marks 1x 20 =20 Marks

5. Prepare the paracetmol tablet practically ? (20M)

Section -C

6 .Viva – voce --- 15M

Government Degree College, Rampachodavaram

East Godavari District, Andhra Pradesh

Affiliated to Adikavi Nannaya University

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN – Medicinal Chemistry

This is to certify that _____ *II B.Sc[MPC&BZC]* participated in Certificate Course in *"Medicinal chemistry"* organized by Department of Chemistry for 60 hours from 1st November 2021 to 30 December 2021.

M. Ganesh
Lecture In Chemistry

Dr. Vanukuru Srinivasa Rao
Principal

ATTENDANCE REPORT OF STUDENTS

S.NO	NAME OF THE STUDENT	CLASS	ATTENDENCE
1	***J NANDEESWARI***	*IIB.Sc(MPC)*	**60 Hrs**
2	*K A V MURALI KRISHNA*	*IIB.Sc(MPC)*	**58 Hrs**
3	*M SARASWATI*	*IIB.Sc(MPC)*	**60 Hrs**
4	*M SATYA NARAYANA*	*IIB.Sc(MPC)*	**56 Hrs**
5	*P ASHOK REDDY*	*IIB.Sc(MPC)*	**60 Hrs**
6	*V CHANDRIKA*	*IIB.Sc(MPC)*	**60 Hrs**
7	*V DEVAKUMARI*	*IIB.Sc(MPC)*	**60 Hrs**
8	*S KAVYA*	*IIB.Sc(MPC)*	**60 Hrs**
9	*M SAIKIRAN REDDY*	*IIB.Sc(MPC)*	**58 Hrs**
10	*M PUJITHA*	*IIB.Sc(MPC)*	**48 Hrs**
11	*K GAYATHRI*	*II B.Sc(BZC)*	**60 Hrs**
12	*K HEMAMAHESWARI*	*II B.Sc(BZC)*	**54 Hrs**
13	*K AKHILA CHAITHANYA*	*II B.Sc(BZC)*	**60 Hrs**
14	*K PRIYANKA*	*II B.Sc(BZC)*	**50 Hrs**
15	*L SWATHI*	*II B.Sc(BZC)*	**60 Hrs**
16	*SVV BHAVANI PRASAD DORA*	*II B.Sc(BZC)*	**60 Hrs**
17	*U SAI DEEPIKA*	*II B.Sc(BZC)*	**60 Hrs**
18	*M DURGA DEVI*	*II B.Sc(BZC)*	**52 Hrs**
19	*D ASHA JYOTHI*	*II B.Sc(BZC)*	**60 Hrs**
20	*M LAKSHMI DEVI*	*II B.Sc(BZC)*	**60 Hrs**

RESULTS OF THE STUDENTS

S.NO	NAME OF THE STUDENT	CLASS	GRADE
1	J NANDEESWARI	IIB.Sc(MPC)	A+
2	K A V MURALI KRISHNA	IIB.Sc(MPC)	A+
3	M SARASWATI	IIB.Sc(MPC)	B+
4	M SATYA NARAYANA	IIB.Sc(MPC)	A
5	P ASHOK REDDY	IIB.Sc(MPC)	A+
6	V CHANDRIKA	IIB.Sc(MPC)	A+
7	V DEVAKUMARI	IIB.Sc(MPC)	A
8	S KAVYA	IIB.Sc(MPC)	A+
9	M SAIKIRAN REDDY	IIB.Sc(MPC)	A+
10	M PUJITHA	IIB.Sc(MPC)	A+
11	K GAYATHRI	II B.Sc(BZC)	B
12	K HEMAMAHESWARI	II B.Sc(BZC)	A+
13	K AKHILA CHAITHANYA	II B.Sc(BZC)	B
14	K PRIYANKA	II B.Sc(BZC)	A+
15	L SWATHI	II B.Sc(BZC)	A+
16	SVV BHAVANI PRASAD DORA	II B.Sc(BZC)	B+
17	U SAI DEEPIKA	II B.Sc(BZC)	A+
18	M DURGA DEVI	II B.Sc(BZC)	B
19	D ASHA JYOTHI	II B.Sc(BZC)	A+
20	M LAKSHMI DEVI	II B.Sc(BZC)	A+

FEED BACK FROM STUDENTS

1.Is the Course useful for you

a) Yes b) No

2.How was the student present Participation

a)Good b) Better C)Excellent

3.Did the event meet your expectation

a) yes b) No

4.Is the content clear by the lecturer

a) Yes b) No

5.Did you enjoyed the course or felt bored

a) Enjoyed b) Bored

PRINCIPAL
Government Degree College
Rampachodavaram

GOVERNMENT DEGREE COLLEGE
RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSES

2021-22

YEAR	NO OF CERTIFICATE COURSES	NAME OF THE CERTIFICATE COURSE
2021-22	1	MEDICINAL CHEMISTRY

GOVERNMENT DEGREE COLLEGE
RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

TO ***RAMPACHODAVARAM***

THE PRINCIPAL ***25-10-2021***

GOVERNAMENT DEGREE COLLEGE
RAMPACHODAVARAM

Sir,

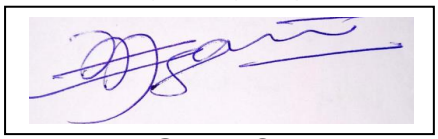
Sub: Application submitted for seeking permission to conduct CERTIFICATE COURSE in MEDICINAL CHEMISTRY req reg.

On the occasion of celebration of National Science day,we are planning to conduct a quiz programme to II YEAR BSC MPC&BZC students.

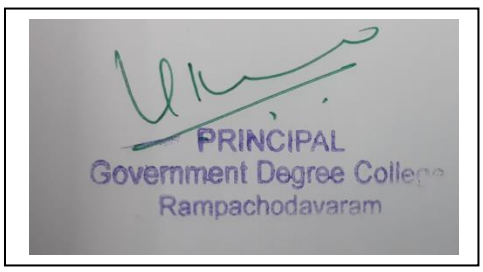
This is for your kind information.So kindly grant me permission to conduct CERTIFICATE COURSE IN MEDICINAL CHEMISTRY
From 01-11-2021 to 31-12-2021[60 Hrs]

Thanking you sir

Yours faithfully



M. GANESH



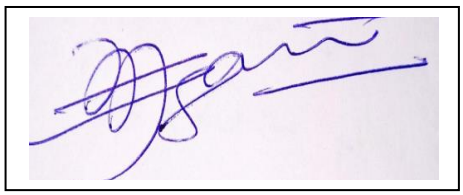
GOVERNMENT DEGREE COLLEGE

RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

CIRCULAR

The Department of Chemistry is planned to conduct a certificate course in MEDICINAL CHEMISTRY for II BSc MPC&BZC Students from 01-11-2021 to31-12-2021[60 Hrs]. The students who are interested may participate according to circular.



M GANESH

LECTURER IN CHEMISTRY

GOVERNMENT DEGREE
COLLEGERAMPACHODAVARAM
Alluri Seetha Ramaraju District
www.gdcrampachodavaram.ac.in

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN MEDICINAL CHEMISTRY

For II B.Sc STUDENTS

Duration of the course : **60hours** (1st NOV 2021 TO 30 DEC 2021)

No. of participants : **20**

A Brief Report

The Department of Chemistry, Government Degree College Rampachodavaram, conducted a Certificate course in Medicinal Chemistry for II B.Sc students of the college from 01-11-2021 to 30-12-2021

The Department of chemistry submitted letter to the Principal to grant permission for conducting the Certificate Course. The Principal scrutinized the Syllabus and permitted to conduct the course and suggested to conduct an entry test for all II B.Sc students

The entry level test was conducted on 1-11-2021 to assess the knowledge in basics of Chemistry. Every day from4.p.m to 5p.m classes were held for the enrolled students. The Principal frequently visited the class and assessed the knowledge acquired by the students. A total of twenty number of students were participated in the Certificate course.

On the final day the end examination conducted for 75 marks under the supervision of principal and Chemistry Department in-charge . The results were published and certificates were issued.

CERTIFICATE COURSE IN MEDICINAL CHEMISTRY

Course Structure

9. Theory : **30 hours**
10. Hands on experience :10 **hours**
11. Practical : **20 hours**
12. Entry test : 20 marks
13. Final test : 40marks
14. Practical :20
15. Viva- voice : 15 marks
16. Grading : A , B, C & D

Scope: This subject is designed to impart fundamental knowledge on the structure chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.

Objectives: Upon completion of the course the student shall be able to

5. understand the chemistry of drugs with respect to their pharmacological activity
6. understand the drug metabolic pathways, adverse effect and therapeutic value of drugs
7. know the Structural Activity Relationship (SAR) of different class of drugs
8. write the chemical synthesis of some drugs

Course Content:

Study of the development of the following classes of drugs, Classification, mechanism of action, uses ofdrugs mentioned in the course, Structure activity relationship of selectiveclass of drugs as specified in the course and synthesis of drugs superscripted

UNIT	Topics	% weightage
1.	**Introduction to Medicinal Chemistry** **History and development of medicinal chemistry** **Physicochemical properties in relation to biological action** Ionization, Solubility, Partition Coefficient, Hydrogen bonding, Protein binding, Chelation, Bioisosterism, Optical and Geometrical isomerism.**Drug metabolism** Drug metabolism principles- Phase I and Phase II. Factors affecting drug metabolism including stereo chemical aspects	40
2.	**Drugs acting on Autonomic Nervous SystemAdrenergic Neurotransmitters:** Biosynthesis and catabolism of catecholamine. Adrenergic receptors (Alpha & Beta) and their distribution. **Sympathomimetic agents: SAR of Sympathomimetic agents** Direct acting: Nor-epinephrine, Epinephrine, Phenylephrine*, Dopamine Methyldopa, Clonidine, Dobutamine, Isoproterenol, Terbutaline, Salbutamol*, Bitolterol, Naphazoline, Oxymetazoline and Xylometazoline. Indirect acting agents: Hydroxyamphetamine, Pseudoephedrine,Propylhexedrine. Agents with mixed mechanism: Ephedrine, Metaraminol. **Adrenergic Antagonists:** **Alpha adrenergic blockers:** Tolazoline*, Phentolamine, Phenoxybenzamine, Prazosin, Dihydroergotamine, Methysergide. **Beta adrenergic blockers:** SAR of beta blockers, Propranolol*, Metibranolol, Atenolol, Betazolol, Bisoprolol, Esmolol, Metoprolol,Labetolol, Carvedilol.	30
3	**I Preparation of drugs/ intermediates[Practical]** **4. PARACETMOL** **5. ASPIRIN** **6. IBUPROFEN**	30

Recommended Books (Latest Editions)

11. Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.
12. Foye's Principles of Medicinal Chemistry.
13. Burger's Medicinal Chemistry, Vol I to IV.
14. Introduction to principles of drug design- Smith and Williams.
15. Remington's Pharmaceutical Sciences.
16. Martindale's extra pharmacopoeia.
17. Organic Chemistry by I.L. Finar, Vol. II.
18. The Organic Chemistry of Drug Synthesis by Lednicer, Vol. 1-5.
19. Indian Pharmacopoeia.
20. Text book of practical organic chemistry- A.I.Vogel.

GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM

DEPARTMENT OF CHEMISTRY 2021-22

MEDICINAL CHEMISTRY **Entry Exam**

TIME: 30 Minutes Max. Marks: 20 Marks

Answer All Questions

1) Which of the following is a macrolide antibiotic?

b. Kanamycin b. Minocycline c. Erythromycin d. Neomycin

2) is a very good example of a bactericidal drug

j. Clindamycin b. Tetracyclin
c. Sulfamethoxazole d. Ciprofloxacin

3) Which of following is a prodrug?

k. Ampicillin b. Chloroquine c. enalapril d. Amphotericin

4) Protease inhibitors block... part of viral cycle.

l. Cell attachment b. Cell entry
c. Replication d. Maturation and release

5) Penicillin contains..... ring

m. Imidazole b. oxazolidine c. Quinazolidine d. β – Lactam

6) Reverse transcriptase enzyme is …… type of enzyme

n. Oxidoreductase b.Transferase c. Hydrolase d. Isomerase

7) Which of the following is not true for docking simulations?

o. It is used for virtual screening
p. It provides lead compounds quickly
q. It facilitates quick drug discovery
r. Protein structure is not needed for this experiment

8) In tetracyclin, the phenolic hydroxy group shows a pKa value in the range

a. 2-3 b. 5-6 c. 6-7 d. 9-10

9) is not a part of DOTS regimen used for TB treatment

b. Rifampicin b. Ethambutol c. Isoniazide d. Moxifloxacin

11) Isonicotinic acid hydrazide is synthesized from …..

j. Pyridine 2-carboxylic acid
k. Pyridine 3-crboxylic acid
l. Pyridine 4-carboxylic acid
m. Piperazine 2-carboxylic acid

11]Scabies can be effectively treated by using the drug.

n. Albendazole b. Niclosamide c. Oxacycline d. Ivermectin

12)Which of the following is an8-aminoquinoline?

o. Primaquine b. Chloroquine c. Amodiaquine d. Pyronaridine

p. The substitution at C-7 of fluoroquinoline is involved in ……. of activity

q. Binding to DNA gyrase

r. Bacterial cell penetration

13) Calcium is chemically incompatible with … a.Penicillins b. Tetracyclins c. Cephalosporins d. Macrolides

14)Nalidixic acid contains .....number of nitrogens

a. 1 b. 2 c. 3 d. 4

15) is not the reason for failure of first generation penicillins

f. Very low renal clearance

g. Orally not bioavailable

h. High incidence of drug resistance

i. Narrow spectrum of activity

18) block the synthesis of …….

j. Sulfonamides DNA b. RNA c. Proteins d. folic acid

19) Cycloserine is ……..

a. 4-aminoisoxazolidin-3-one b. 3-aminoisoxazolidin-2-one

c. 2-aminoisoxazolidin-3-one d. 4-aminoisoxazolidin-2-one

18)Synergistic effect can be seen in case of combination of drugs with …….

b. Similar chemical structure

c. Similar mechanism of action

d. Different chemical structure

e. Different mechanism of action

19)factor indicated 3D properties of an organic compound

f. Field b. Electronic c. Inductive d. Steric

20) Penciline contains …….. ring

a.Imidazole

b.oxzolidine

c.Quinazolidine

D.β-Lactam

GOVERNMENT DEGREE COLLEGE
RAMPACHODAVARAM
DEPARTMENT OF CHEMISTRY
Certifiacte Course on Medicinal Chemistry For 2021-2022
Final Exam

TIME: 1 Hour 30 Minutes Max. Marks: 50 Marks

Section -A

Answer All Questions 4x 10 =40 Marks

6. Write a note on (10M)
   a. Betalactamase inhibitors b. Artemether
7. Write the synthesis, MOA and uses of (10M)
   a. Nitrofurantoin b. Acyclovir
8. Write in detail on Azole antifungal drugs. (10M)
9. Write a detail note on Azole anti-fungal drugs (10M)

Section -B

Answer All Questions, Each Question Carries 15 Marks 1x 20 =20 Marks

10. Prepare the paracetmol tablet practically ? (20M)

Section -C

6 .Viva – voce --- 15M

Government Degree College, Rampachodavaram

East Godavari District, Andhra Pradesh

Affiliated to Adikavi Nannaya University

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN – Medicinal Chemistry

This is to certify that _____

II B.Sc[MPC&BZC] participated in Certificate Course in *"Medicinal chemistry"* organized by Department of Chemistry for 60 hours from 1st November 2021 to 30 December 2021.

M. Ganesh
Lecture In Chemistry

Dr. Vanukuru Srinivasa Rao
Principal

Attendance Report of students

S.NO	NAME OF THE STUDENT	CLASS	ATTENDENCE
1	***K.K.BHAVANI***	*IIB.Sc(MPC)*	**60 Hrs**
2	*K.KEERTHI*	*IIB.Sc(MPC)*	**58 Hrs**
3	*M.LAVANYA*	*IIB.Sc(MPC)*	**60 Hrs**
4	*M.RAMYA*	*IIB.Sc(MPC)*	**56 Hrs**
5	*K.NAVYANJALI*	*IIB.Sc(MPC)*	**60 Hrs**
6	*A.SAILAJA*	*IIB.Sc(MPC)*	**60 Hrs**
7	*P.SYAMSUNDHAR*	*IIB.Sc(MPC)*	**60 Hrs**
8	*K.BABY RAMYA*	*IIB.Sc(MPC)*	**60 Hrs**
9	*B.ADHI LAKSHIMI*	*IIB.Sc(MPC)*	**58 Hrs**
10	*T.TULASI PAVANI*	*IIB.Sc(MPC)*	**48 Hrs**
11	*CH.SOMALLA*	*II B.Sc(BZC)*	**60 Hrs**
12	*CH.KRUPA*	*II B.Sc(BZC)*	**54 Hrs**
13	*K.ASHOK KUMAR*	*II B.Sc(BZC)*	**60 Hrs**
14	*G.DEVENDRA VARMA*	*II B.Sc(BZC)*	**50 Hrs**
15	*S.CHANDANA PRIYA*	*II B.Sc(BZC)*	**60 Hrs**
16	*J.VEERA BABU*	*II B.Sc(BZC)*	**60 Hrs**
17	*P.UDAY KIRAN*	*II B.Sc(BZC)*	**60 Hrs**
18	*M.RAJA SREE*	*II B.Sc(BZC)*	**52 Hrs**
19	*P.SANTHA KUMARI*	*II B.Sc(BZC)*	**60 Hrs**
20	*R.MOUNIKA DEVI*	*II B.Sc(BZC)*	**60 Hrs**

RESULTS OF THE STUDENTS

S.NO	NAME OF THE STUDENT	CLASS	GRADE
1	***K.K.BHAVANI***	*IIB.Sc(MPC)*	*A+*
2	*K.KEERTHI*	*IIB.Sc(MPC)*	*A+*
3	*M.LAVANYA*	*IIB.Sc(MPC)*	*B+*
4	*M.RAMYA*	*IIB.Sc(MPC)*	*A*
5	*K.NAVYANJALI*	*IIB.Sc(MPC)*	*A+*
6	*A.SAILAJA*	*IIB.Sc(MPC)*	*A+*
7	*P.SYAMSUNDHAR*	*IIB.Sc(MPC)*	*A*
8	*K.BABY RAMYA*	*IIB.Sc(MPC)*	*A+*
9	*B.ADHI LAKSHIMI*	*IIB.Sc(MPC)*	*A+*
10	*T.TULASI PAVANI*	*IIB.Sc(MPC)*	*A+*
11	*CH.SOMALLA*	*II B.Sc(BZC)*	*B*
12	*CH.KRUPA*	*II B.Sc(BZC)*	*A+*
13	*K.ASHOK KUMAR*	*II B.Sc(BZC)*	*B*
14	*G.DEVENDRA VARMA*	*II B.Sc(BZC)*	*A+*
15	*S.CHANDANA PRIYA*	*II B.Sc(BZC)*	*A+*
16	*J.VEERA BABU*	*II B.Sc(BZC)*	*B+*
17	*P.UDAY KIRAN*	*II B.Sc(BZC)*	*A+*
18	*M.RAJA SREE*	*II B.Sc(BZC)*	*B*
19	*P.SANTHA KUMARI*	*II B.Sc(BZC)*	*A+*
20	*R.MOUNIKA DEVI*	*II B.Sc(BZC)*	*A+*

FEED BACK FROM STUDENTS

1.Is the Course useful for you

a) Yes b) No

2.How was the student present Participation

a)Good b) Better C)Excellent

3.Did the event meet your expectation

a) yes b) No

4.Is the content clear by the lecturer

a) Yes b) No

5.Did you enjoyed the course or felt bored

a) Enjoyed b) Bored

PRINCIPAL
Government Degree College
Rampachodavaram