

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
(1961 ਦੇ ਪੰਜਾਬ ਐਕਟ ਨੰਬਰ 35 ਤਹਿਤ ਸਥਾਪਤ)
(ਕਾਲਜ ਸੈਕਸ਼ਨ)

ਨੰ. 1314 / ਕਾਲਜ ਸ-3
ਮਿਥੀ 12/11/2009

ਪ੍ਰਿੰਸੀਪਲ,

ਸ਼੍ਰੀਮਤੀ ਕਮਲਾ

ਕਾਲਜ

ਵਿਸ਼ਾ: ਗੈਰ ਅਕਾਦਮਿਕ ਕੌਂਸਲ ਦੀ ਪ੍ਰਵਾਨਗੀ

ਸ਼੍ਰੀਮਾਨ ਜੀ,

ਆਪ ਜੀ ਦੇ ਦਫਤਰ ਦੇ ਪੱਤਰ ਨੰ. 4822 ਮਿਤੀ 6-11-2009 ਦੇ ਜਵਾਬ ਵਿਚ ਸੂਚਿਤ
ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਵਾਈਸ-ਚਾਂਸਲਰ ਸਾਹਿਬ ਨੇ ਆਪ ਜੀ ਦੇ ਕਾਲਜ ਵਿਖੇ ਸੈਸਨ 2009-10 ਤੋਂ ਕੈਰੋ ਅਰ
ਉਰੀਐਂਟਡ ਸਕੀਮ ਅਧੀਨ ਨਿਰਮਾਣੀ ਪ੍ਰੋਜੈਕਟ ਦਾ ਕਿਸਾ
ਸ਼ੁਰੂ ਕਰਨ ਦੀ ਪ੍ਰਵਾਨਗੀ ਅਕਾਦਮਿਕ ਕੌਂਸਲ ਦੀ ਪ੍ਰਵਾਨਗੀ ਦੀ ਆਸ ਵਿਚ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। ਇਥੇ ਇਹ
ਸਪੱਸ਼ਟ ਹੈ ਕਿ ਕਾਲਜ ਯੂ.ਜੀ.ਸੀ. ਅਤੇ ਯੂਨੀਵਰਸਿਟੀ ਦੀਆਂ ਸ਼ਰਤਾਂ ਦੀ ਪਾਲਣਾ ਕਰਨ ਦਾ ਪਾਬੰਦ ਹੋਵੇਗਾ।

ਵਿਸ਼ਵਾਸਯੋਗਤਾ,

ਸਹਾਇਕ ਰਾਜਿਸਟਰਾਰ ਕਾਲਜ

Harjeet Gajal
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

TRANSLATED VERSION

PUNJABI UNIVERSITY, PATIALA

(Established under Punjab Act No. 35 of 1961)

(College Section)

No. 1316/college/s-3

Date: 22/4/09

Principal

Government College

Mohali

Subject: Permission to start Add-on course in Pharmaceutical Chemistry

Respected Sir,

In response of this letter no. 9822, date: 6/3/09, it is said that the Vice- Chancellor has given the permission to start "Add-on course in Pharmaceutical Chemistry" under the career oriented scheme in our college from session 2009-10. The permission is given under the anticipatory approval of the Academic Council. Further, it is important to mention that college is bound to abide by the conditions and norms of university and UGC.

Yours faithfully,

Assistant Registrar

(colleges)

To,

The Principal

S.M.H.S. Government College

S.A.S. Nagar Mohali

Respected Ma'am,

We plan to start Add-on Course in Pharmaceutical Chemistry, UGC Sponsored course for B.Sc. (medical) and B.Sc. (non-medical) students. The duration of the course is one year which includes theory and practical classes. Kindly grant us permission to start this course from 1st September 2019.

Thanking you

Yours sincerely

Harjeet Arjyal

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

SMHS Govt. College Mohali

Chemistry Department

NOTICE FOR STUDENTS

This is for the information of the students that the college is going to start Add-on course in Pharmaceutical Chemistry , UGC sponsored course for session 2019-20. B.Sc. (medical) and B.Sc. (non-medical) students are eligible. The course will be of one year. Students can apply from 15th August to 31st August 2019. Classes will commence from 1st september 2019 in Chemistry Lab.

COURSE OFFERED

- 1) Certificate course for B.Sc. 1st year
- 2) Diploma course for B.Sc. 2nd year
- 3) Advanced Diploma for B.Sc. 3rd year

ASSESSMENT CRITERIA

Maximum Marks- 100

Theory paper- 40

Theory Internal Assessment- 20

Practical Paper – 30

Practical Internal Assessment- 10

Certificates for this course will be awarded by Punjabi University, Patiala.

Principal

Harjeet Garg
S.M.H.S Government College, Mohali
Principal
SMHS Govt. College
Sarabzada Ajit Singh Nagar

Lesson plan for B.Sc. 3rd year (Medical and Non- medical) (sem 5 and 6)

MONTH	TOPICS COVERED
6 TH sep-10 th sep	1. Dosage forms – Introduction, Capsules, Tablets.
12 th - 17 th sep	Syrups, Suspension, Emulsion
19 th -24 th sep	2. Parts of prescription – Superscript, subscript
26 th -30 th sep	3. Hospital pharmacy – Sterilization, disinfection.
1 st oct-8 th oct	4. Antibodies & Antigens – Types of antibodies, Reaction of Ag-Ab.
10 th -15 th oct	Anti-sera introduction, Vaccination like cholera.
17 th -22 nd Oct	5. Anti epileptic agents – Introduction, classification & structures of Phenobarbitone, Phenytoin,
24 th -31 st oct	Clonazepam, Lamotrigine
1 st nov- 5 th nov	6. Antidepressants – Introduction, classification & structures of Amitriptyline, Citalopram.
7 th -12 th nov	7. Anti Cancer agents – Introduction, classification & structures of Chlorambucil,
14 th -19 th nov	Cyclophosphamide, Melphalan.
21 st -26 th nov	8. Hypoglycemic agents – Introduction to diabeters, types of diabetes, introduction to Insulin and its types

Harjeet Arjial
Principal
Sardar Ajit Singh College
Sardar Ajit Singh Nagar

28 th -30 th nov	structure of Gilipizide, Gilelazide, Phenformin.
1 st dec-3 rd dec	Structure of Pioglitazone., Metronidazole.
5 th -10 th dec	9. Anti amoebic agents – Introduction, classification & structures of Emetine, Metronidazole.
12 th -17 th dec	10. Anti fungal agents – Introduction, classification & structures of Griseofulvin, Fluconazole.
19 th -24 th dec	11. UV Spectroscopy – Introduction, Chromophore, Auxochrome
26 th -31 st dec	Red shift, Blue shift
2 nd jan-7 th jan	Hypo and hyper Chromic shifts, factors affecting shifts.
9 th -14 th jan	Practicals -1. Extraction of volatile oil from Fennel using Clevenger apparatus.
16 th -21 st jan	2. To carry out the synthesis of drug Paracetamol.
23 rd -31 st jan	3. To carry out preparation of Methyl red/Methyl orange.
1 st feb-4 th feb	4. To carry out the extraction of Tea by using Soxhlet apparatus
6 th -11 th feb	5. To perform various pharmacognostic test by drug Catechu
13 th -18 th feb	6. To perform the various tests to identify Alkaloids
20 th -28 th feb	7. To perform the various tests to identify Glycosides.
1 st mar-4 th mar	8. Description of Column chromatography: a. To separate pigments from spinach
6 th -11 th mar	b. To separate mixture of Fluorescence and Methylene Blue.
13 th -18 th mar	9. To carry out preparation of Emulsion.
20 th -25 th mar	10. To prepare various stereochemical models (Syn and anti, E&Z)
27 th -31 st mar	11. To solve general mass spectrometric problems and their graphs.
1 st apr-8 th apr	12. Mass spectroscopy – Introduction, instrumentation
10 th -15 th apr	Base peaks, Molecular ion peak,
17 th -22 nd apr	Nitrogen rule, Fragmentation
24 th -29 th apr	and rules of fragmentation including Mc. Lefferty and retrodiel.

Harjeet Arora
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

Add On - Advanced Diploma Course in Pharmaceutical Chemistry

For 2016-17, 2017-18 and 2018-19 Session

Continued For Sessions 2019-20, 2020-21, 2021-22, 2022-23

3hrs/Week

Max. Time: 3 hrs.

Max. Marks: 40

Internal Assessment: 20

Total Marks: 60

INSTRUCTIONS FOR THE PAPER SETTERS

The question paper will consist of three sections A, B and C. Section A and B each will have four questions from the respective sections of the syllabus. Each question shall carry 4 marks. Section C will consist of 8 short answer type questions which will cover the entire syllabus uniformly and will carry 16 marks in all.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt three questions each from section A and B. Section C is compulsory.

Section – A

1. **Dosage forms** – Introduction, Capsules, Tablets, Syrups, Suspension, Emulsion
2. **Parts of prescription** – Superscript, subscript
3. **Hospital pharmacy** – Sterilization, disinfection.
4. **Antibodies & Antigens** – Types of antibodies, Reaction of Ag-Ab, Anti-sera introduction, Vaccination like cholera.
5. **Anti epileptic agents** – Introduction, classification & structures of Phenobarbitone, Phenytoin, Clonazepam, Lamotrigine
6. **Antidepressants** – Introduction, classification & structures of Amitriptyline, Citalopram.

Section – B

7. **Anti Cancer agents** – Introduction, classification & structures of Chlorambucil, Cyclophosphamide, Melphalan.
8. **Hypoglycemic agents** – Introduction to diabetes, types of diabetes, introduction to Insulin and its types & structure of Glibenclamide, Gliclazide, Phenformin, Pioglitazone.
9. **Anti amoebic agents** – Introduction, classification & structures of Emetine, Metronidazole.
10. **Anti fungal agents** – Introduction, classification & structures of Griseofulvin, Fluconazole.
11. **UV Spectroscopy** – Introduction, Chromophore, Auxochrome, Red shift, Blue shift, Hypo and hyper Chromic shifts, factors affecting shifts.
12. **Mass spectroscopy** – Introduction, instrumentation, Base peaks, Molecular ion peak, Nitrogen rule, Fragmentation and rules of fragmentation including McLafferty and retrodiel.

LABORATORY

Practical carriers 30 marks + Internal assessment of 10 marks = Total 40 marks

TOTAL MARKS 40

1. Extraction of volatile oil from Fennel using Clevenger apparatus.
2. To carry out the synthesis of drug Paracetamol.
3. To carry out preparation of Methyl red/Methyl orange.
4. To carry out the extraction of Tea by using Soxhlet apparatus.
5. To perform various pharmacognostic test by drug Catechu.
6. To perform the various tests to identify Alkaloids
7. To perform the various tests to identify Glycosides.
8. Description of Column chromatography
 - a. To separate pigments from spinach.
 - b. To separate mixture of Fluorescene and Methylene Blue.
9. To carry out prepration of Emulsion.
10. To prepare various stereochemical models (Syn and anti, E&Z)
11. To solve general mass spectrometric problems and their graphs.

Books recommended

1. Text book of Medicinal Chemistry by Panday, Vol – I by S.G. Publisher
2. Medicinal and Pharmaceutical Chemistry by Harikrishan Singh and V.K. Kapoor published by VallabParkashan.
3. Essentials of medicinal Pharmacology by K.D Tripathi 5th edition by Jaypee brothers.
4. Instrumental methods of Chemical analysis by Gurdeep R. Chatwal and Shyam K. Anand published by Himalaya publishing house.
5. Pharmaceutics – I by R.M Mehta
6. Indian Pharmacopoeia Govt. of India, Ministry of Health & Family Welfare, Delhi Latest edition.
7. F.G. Mann and B.C Sunders, "Practical Organic Chemistry," The English Language Book Society and Longmann Group Limits, London (Latest Edition).
8. A.I. Vogel, "A text book of Practical Organic Chemistry," The English Language Book Society and Longman Group Limits, London (Latest Edition).
9. Remington, The Science and Practice of Pharmacy, Mack Publishing co., U.S.A (Latest edition).

Harjeet Gargal
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

GOVERNMENT COLLEGE, SAHIBZADA AJIT SINGH NAGAR, MOHALI										
LIST OF STUDENTS WHO PAID FEES FOR EXAMINATION IF ADD-ON ADVANCED DIPLOMA COURSE (2019-2020)										
S.No.	Reg. No.	Roll No.	NAME	FATHER'S NAME	MOTHER'S NAME	CATEGORY	SEX	MEDIUM	COURSE	FEES
1	612-17-686	5551	Alka Devi	Madsn Lal	Amita Devi	BC	F	English	Advanced Diploma	600
2	612-17-281	5552	Ankit Rana	Hashair Singh Rana	Suman Rana	BC	M	English	Advanced Diploma	600
3	612-17-694	5553	Arun Sharma	Sanjiv kumar	Asha Rani	General	M	English	Advanced Diploma	600
4	612-17-695	5554	Chetan Shukla	Krishan Kumar	Neelam Rani	General	M	English	Advanced Diploma	600
5	612-17-242	5555	Divya Sharma	Mohanlal Sharma	Kusum Sharma	General	F	English	Advanced Diploma	600
6	612-17-241	5556	Jaspreet Kaur	Sukhbir Singh	Baljinder kaur	General	F	English	Advanced Diploma	600
7	612-17-239	5557	Jaswinder Kaur	Prithpal Singh	Daljit Kaur	General	F	English	Advanced Diploma	600
8	612-17-697	5558	Ketan	Baljinder Singh	Renu Bala	SC	M	English	Advanced Diploma	600
9	612-17-240	5559	Manjot Kaur	Hardeep Singh	Sukhwinder kaur	General	F	English	Advanced Diploma	600
10	612-17-272	5560	Manpreet Kaur	Lachhman Das	Nirmal Kaur	SC	F	English	Advanced Diploma	600
11	612-17-263	5561	Navneet Kaur	Manjit Singh	Bhupinder Kaur	General	F	English	Advanced Diploma	600
12	612-17-269	5562	Pooja	Sita Ram	Jaswinder kaur	BC	F	English	Advanced Diploma	600
13	612-17-270	5563	Prabhjot Kaur	Gurpreet Singh	Sukhpal kaur	General	F	English	Advanced Diploma	600
14	612-17-294	5564	Ravinder Singh	Malkit Singh	Kulwant Kaur	SC	M	English	Advanced Diploma	600
15	612-17-267	5565	Shweta	Suresh Kumar	Kamla Devi	General	F	English	Advanced Diploma	600
16	612-17-279	5566	Sunil kumar	Harbans Lal	Manjit Kaur	BC	M	English	Advanced Diploma	600

Alka devi
Ankit Rana
Arun Sharma
Chetan Shukla
Divya Sharma
Jaspreet kaur
Jaswinder kaur
Ketan
Manjot kaur
Manpreet kaur
Navneet kaur
Pooja
Prabhjot
Ravinder
Shweta
Sunil kumar

Hypid 9/11/21
Principal,
SMAPSSCV, Govt. College,
Sahibzada Ajit Singh Nagar.

ਸੈਂਟਰ ਨੰਬਰ.....

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ.

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ BSc III, 12010.....

ਵਿਸ਼ਾ Advanced Diploma.....

ਪਰਚਾ Chemistry.....

ਅਧਿਕਤਮ ਅੰਕ 40.....

ਪਾਸ ਅੰਕ 14.....

- 1) Aika
- 2) Ankil
- 3) Anu
- 4) Chetan
- 5) Durga
- 6) Jayant
- 7) Jaswinder
- 8) Ketan
- 9) Manjot
- 10) Manpreet
- 11) Navneet
- 12) Pooja
- 13) Prabhjot
- 14) Ravinder
- 15) Shweta
- 16) Sumit

ਰੋਲ ਨੰਬਰ	ਅੰਕ
5551	21
5552	23
5553	26
5554	24
5555	26
5556	22
5557	25
5558	20
5559	24
5560	22
5561	21
5562	24
5563	24
5564	24
5565	20
5566	26

ਪਾਸ 16 ਫੇਲ੍ਹ —

Harjeet Gajjar

Principal
S.M.S Govt. College
Sahibzada Ajit Singh Nagar

ਸ਼੍ਰੀ ਗੁਰਪ੍ਰੀਤ
ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

PUP(O)-9093-25000-10-14

ਸੈਂਟਰ ਨੰਬਰ.....

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
ਚੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ.

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ B.S.T.II, 2011 E1.....

ਵਿਸ਼ਾ Advanced Diploma.....

ਪਰਚਾ Pharmaceutical Chemistry
(Inorganic Chemistry).....

ਅਧਿਕਤਮ ਅੰਕ..... 20

ਪਾਸ ਅੰਕ..... 07

ਰੋਲ ਨੰਬਰ	ਅੰਕ
5551	17
5552	18
5553	19
5554	18
5555	19
5556	17
5557	19
5558	17
5559	18
5560	17
5561	17
5562	18
5563	19
5564	19
5565	18
5566	17

ਪਾਸ 16 ਫੇਲ੍ਹ —

Harjeet Goyal
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

Permit
ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

ਪਰਿਖਿਅਕ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚ

ਪਰੀਖਿਆ B.Sc. (H) ^{VI} ²⁰⁰⁰ / 2000

दिना Pharm. Chemistry

परचा Aluminium (सुदु)
(फैक्ट. Alumina)

ਅਧਿਕਤਮ ਅੰਕ 30

ਪਾਸ ਅੰਕ

11
13
12
13
14
12
16

ਪਾਸ/6..... ਫੇਲ੍ਹ

Harjeet Singh

St. College
Bambaluda Ajit Singh Nagar

ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ ਤਾਖਰ

PUP(O)-8703-5,000/2-07

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਦਿੱਤੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ BSc III Sem 2000/2001

ਵਿਸ਼ਾ Mathematics (Elective)

ਪਰਚਾ Advanced Diploma
(Practical Assesment)
ਅਧਿਕਤਮ ਅੰਕ 10

ਪਾਸ ਅੰਕ 04

ਰੋਲ ਨੰਬਰ	ਅੰਕ
5551	6
5552	7
5553	8
5554	7
5555	6
5556	5
5557	7
5558	6
5559	7
5560	8
5561	7
5562	6
5563	7
5564	8
5565	6
5566	7

ਪਾਸ 16 ਫੋਲੋ

Harijeet Goyal
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

PUP(O)-8703-5,000/2-07

GOVERNMENT COLLEGE , SAHIBZADA AJIT SINGH NAGAR, MOHALI										
LIST OF STUDENTS WHO PAID FEES FOR EXAMINATION IF ADD-ON ADVANCED DIPLOMA COURSE (2019-2020)										
S.No.	Reg. No.	Roll No.	NAME	FATHER'S NAME	MOTHER'S NAME	CATEGORY	SEX	MEDIUM	COURSE	FEES
1	612-17-686	5551	Alka Devi	Madsn Lal	Amita Devi	BC	F	English	Advanced Diploma	600
2	612-17-281	5552	Ankit Rana	Hashair Singh Rana	Suman Rana	BC	M	English	Advanced Diploma	600
3	612-17-694	5553	Arun Sharma	Sanjiv kumar	Asha Rani	General	M	English	Advanced Diploma	600
4	612-17-695	5554	Chetan Shukla	Krishan Kumar	Neelam Rani	General	M	English	Advanced Diploma	600
5	612-17-242	5555	Divya Sharma	Mohanlal Sharma	Kusum Sharma	General	F	English	Advanced Diploma	600
6	612-17-241	5556	Jaspreet Kaur	Sukhbir Singh	Baljinder kaur	General	F	English	Advanced Diploma	600
7	612-17-239	5557	Jaswinder Kaur	Prithpal Singh	Daljit Kaur	General	F	English	Advanced Diploma	600
8	612-17-697	5558	Ketan	Baljinder Singh	Renu Bala	SC	M	English	Advanced Diploma	600
9	612-17-240	5559	Manjot Kaur	Hardeep Singh	Sukhwinder kaur	General	F	English	Advanced Diploma	600
10	612-17-272	5560	Manpreet Kaur	Lachhman Das	Nirmal Kaur	SC	F	English	Advanced Diploma	600
11	612-17-263	5561	Navneet Kaur	Manjit Singh	Bhupinder Kaur	General	F	English	Advanced Diploma	600
12	612-17-269	5562	Pooja	Sita Ram	Jaswinder kaur	BC	F	English	Advanced Diploma	600
13	612-17-270	5563	Prabhjot Kaur	Gurpreet Singh	Sukhpal kaur	General	F	English	Advanced Diploma	600
14	612-17-294	5564	Ravinder Singh	Malkit Singh	Kulwant Kaur	SC	M	English	Advanced Diploma	600
15	612-17-267	5565	Shweta	Suresh Kumar	Kamla Devi	General	F	English	Advanced Diploma	600
16	612-17-279	5566	Sunil Kumar	Harbans Lal	Manjit Kaur	BC	M	English	Advanced Diploma	600

Principal,
SMRPS CV, Govt. College,
Sahibzada Ajit Singh Nagar.

Alka devi
Ankit
Arun
Chetan
Divya
Jaspreet Kaur
Jaswinder
Ketan
Manjot
Manpreet
Navneet
Pooja
Prabhjot
Ravinder Singh
Shweta
Sunil

Government College, S.A.S. Nagar, Mohali
Final Examination

UGC Add on course in Pharmaceutical Chemistry

Course: Advanced Diploma in Pharmaceutical Chemistry

Session 2019-2020

Max. Marks: 40

Max. Hours: 3:00 hours

SECTION A

This section carries 5 short answer type questions of 4 marks each and all are compulsory.

- Q.1) What is 'sterilisation' and 'disinfection'?
- Q.2) Define the term 'prescription'. Describe, in brief, the various parts of prescription.
- Q.3) Explain different types of antibiotics
- Q.4) Explain any two solid dosage forms.
- Q.5) Give structure and brand names of the following drugs:
- a) Emetine b) Metronidazole

Each question in section B, C, D and E carries long questions 5 marks. Attempt any one out of the two from each section.

SECTION B

Q.6) What are Anti depressant drugs? Explain any two Antidepressant drugs in detail.

OR

Q.7) What are anti fungal drugs? Explain the following drugs in detail:

- a) Griseofulvin b) Fluconazole

SECTION C

Q.8) Explain Mass Spectroscopy by giving its principle. What are the different types of ions produced in a mass spectrometer.

Harijeet Singh
Principal
Govt. College
S.A.S. Nagar
Sanitized by Ajjit Singh, Nagar

OR

Q.9) What are anti epileptic drugs? Explain any 2 anti epileptic drugs in detail.

SECTION D

Q.10) What are Hypoglycemic agents? Explain in detail:

- a) Gilipizide b) Phenformin c) Gilclazide

OR

Q.11) What are chromophores and auxochromes? What are the different types of shifts in UV spectroscopy?

SECTION E

Q.12) Explain 'suspension' and 'emulsion' dosage forms in detail.

OR

Q.13) What are anti cancer drugs? Explain any two anti cancer drugs in detail.

Harjeet Arora
Principal
SMHS Govt. College
Sanibzada Ajit Singh Nagar

Advance
 ਹਾਜ਼ਰੀ ਰਜਿਸਟਰ ^A Diploma Course in Pharmacy ^{ਮਾਹਲੀ} C.C. Mohali

ਰੋਲ ਨੰ:	ਨਾਮ	22	23	24	25	5	6	7	8	9	10	11	12	13	14	15	16
		07	07	07	07												
865	Pooja	P	P	P	P												
862	Manpreet Kaur	P	P	P	P												
879	Aafreen	P	A	A	P												
873	Subpreet K.	A	P	P	P												
3701	Alka Devi	P	A	P	P												
662	Manjot Kaur	P	P	P	P												
660	Jaspreet K.	P	A	P	A												
866	Prabjot K	A	P	P	P												
655	Divya Sharma	P	A	P	A												
874	Sumit Kumar	A	P	A	A												
661	Jaswinder K.	P	P	A	A												
881	Shweta	A	P	P	P												
3705	Ketan	P	A	A	A												
854	Garpreet Singh	P		A	A												
876	Vikramjeet	A	P	A	A												
863	Garpreet Singh	P	P	P	A												
869	Ravinder Singh	A	A	A	P												
3702	Arun Sharma	P	P	P	P												
3703	Chetan Shukla	P	P	P	P												
851	Ankit Rana	P	A	P	P												

Handwritten signature

Principal
 Govt. College

S. S. N. Mohali

Principal
 Govt. College
 Sahiwal

M1

Advance

ਗੁਜਰੀ ਗਜਿਸਟਰ [^] Diploma Course in Pharmacy

G.C. Mohali

ਨਾਂ	27	28	29	30	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
865 Pooja	P	P	P	P						P	P	P	P								
862 Manpreet Kaur	P	P	P	P						P	P	P	P								
879 Anpreen	P	A	A	P						P	P	P	P								
873 Sukhpreet K.	A	P	P	P						P	P	A	P								
3701 Alka Devi	P	A	P	P						P	A	P	A								
662 Manjot Kaur	P	P	P	P						A	A	P	P								
660 Jaspreet K.	P	A	P	A						A	A	P	P								
866 Prubjot K	A	P	P	P						P	P	P									
655 Divya sharma	P	A	P	A						P	A	A	P								
874 Sumit Kumar	A	P	A	A						A	P	P	A								
661 Jaswinder K.	P	P	A	A						P	A	P	P								
881 Shweta	A	P	P	P						P	P	A	P								
3705 Ketan	P	A	A	A						P	P	A	P								
854 Gurpreet Singh	P		A	A						A	P	P	A								
876 Vikramjeet	A	P	A	A						P	P	A	P								
863 Gurpreet Singh	P	P	P	A						P	A	P	A								
869 Ravinder Singh	A	A	A	P						A	P	A	P								
3702 Arun Sharma	P	P	P	P						P	A	P	A								
3703 Chetan Shukla	P	P	P	P						A	P	A	P								
851 Ankit Rana	P	A	P	P						P	P	P	P								

Principal
Hastar Singh
Govt. College
Sambzada Ajit Singh Nagar

ਸਰਕਾਰੀ ਡਾ. ਜਿ. ਵਿ. ਨੰ. 52

[ADVANCED DIPLOMA]

BSC IIIrd year (Add-on Course in
Pharmaceutical Chemistry)

ਰਾਸ਼ਟਰੀ ਕਮਿਸ਼ਨਰ
February, 2020

ਕਾਲਜ

ਰੋਲ ਨੰ.	ਅ	12/2/2020	13/2/2020	14/2/2020	15/2/2020	17/2/2020	18/2/2020	19/2/2020	22/2/2020	24/2/2020	25/2/2020	26/2/2020	27/2/2020	29/2/2020	14	15	16	17
912		.	P	.	.	.	.	P	P	.	.	P	P	P				
915		P	.	P	.	.	P	.	P	.	.	.	.	.				
916		P	P	.	P	P	.	P	P	P	P	.	P	P				
919		P	.	P	.	P	P	P	P	P	P	.	.	P				
922		P	P	.	P	P	.	P	P	.	.	P	P	.				
902		P	P	.	P	P	.	P	P	.	.	P	P	P				
3151		P	.	.	P	P	P	.	P	P	.	.	P	P				

(Signature)

Harjeet Singh
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

April 2020

ਸ਼ਹੀਦੀ ਡਾ. ਸਿ. ਵਿ. ਨੰ: 52

Bsc Tiled year

[Advanced Diploma]
[Add-on course in
Pharmaceutical chemistry]

ਰਾਜਸਰੀ ਰਜਿਸਟਰ March 2020

ਵਾਹਜ

ਰੋਲ ਨੰ:	ਕ੍ਰਮ	2/3/2020	3/3/2020	4/3/2020	6/3/2020	7/3/2020	9/3/2020	11/3/2020	12/3/2020	14/3/2020	16/3/2020	18/3/2020	1	12	13	14	15	16	17
912		A	A	P	P	P	P	A	A	P	P	P							
915		P	P	A	A	P	P	P	A	P	A	P							
916		P	P	A	P	P	A	P	P	P	A	A							
919		P	P	A	A	P	A	A	P	P	P	P							
922		A	A	P	A	A	P	P	P	P	P	A							
902		P	P	P	P	A	P	P	A	A	A	P							
3751		P	A	A	P	A	A	P	P	P	A	P							

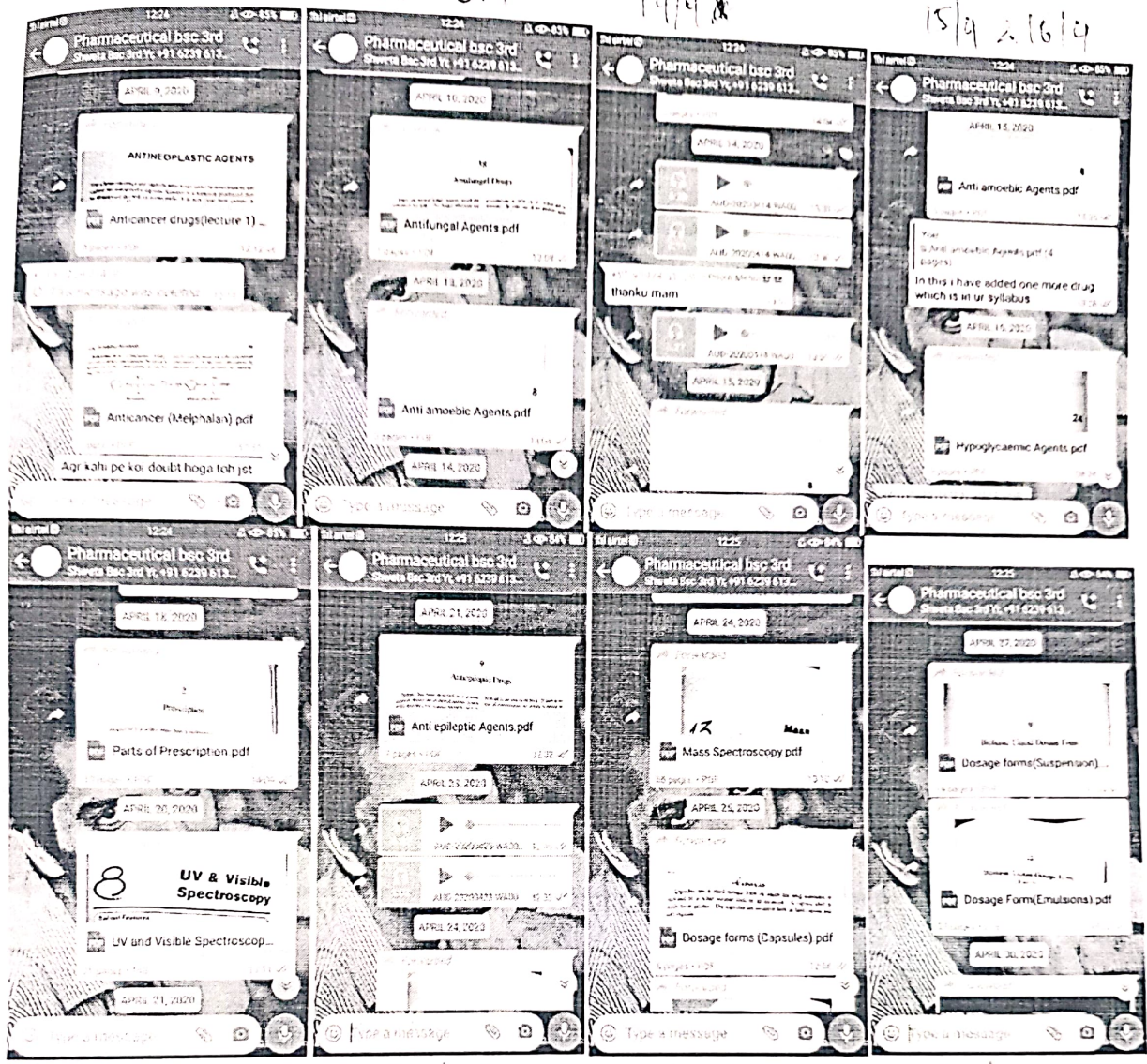
Principal
Sikar Govt. College
Sahibzada A. Singh Nagar

9/4

10/4 & 13/4

14/4

15/4 & 16/4



18/4

18/4 & 20/4

21/4 & 23/4

24/4 & 25/4

27/4

(Incharge)

[Handwritten signature]

Hareesh Arjial
Principal
SMHS Govt. Collene
Sahibzada Ajit Singh Nagar

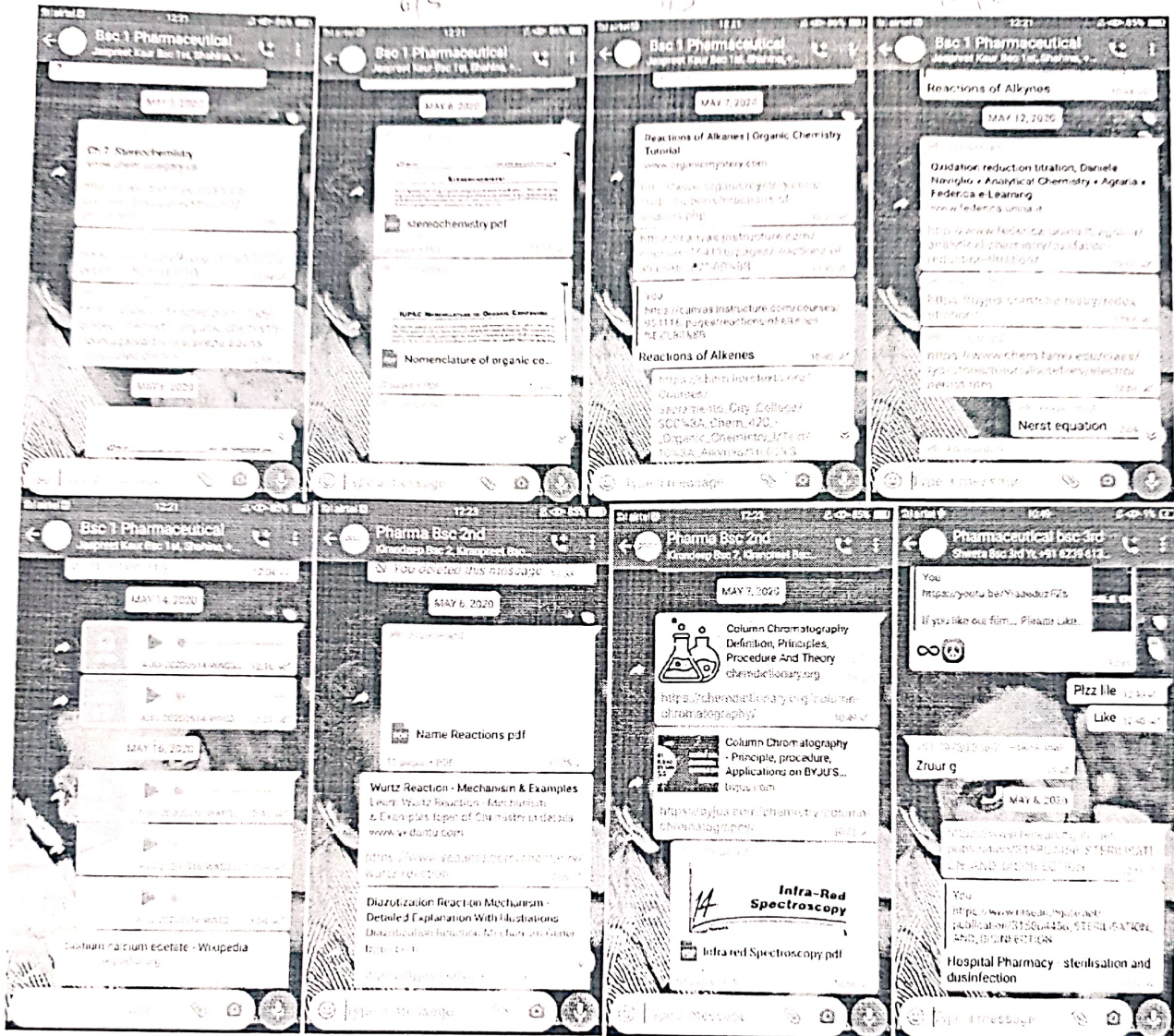
May 2020

6/5

6/5

7/5

6/5



14/5 & 16/5

6/5

7/5

6/5

(In charge)

Harjeet Arora
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar