

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

(1961 ਦੇ ਪੰਜਾਬ ਐਕਟ ਨੰਬਰ 35 ਤਹਿਤ ਸਥਾਪਤ)

(ਕਾਲਜ ਸੈਕਸ਼ਨ)

ਨੰ. 1316-.../ਕਾਲਜ-3

ਮਿਤੀ 22/11/22-2022

ਪ੍ਰਿੰਸੀਪਲ,

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ

ਪਟਿਆਲਾ

ਵਿਸ਼ਾ: - ਸਮੇਤ ਸਾਰੇ ਕੋਰਸ ਫਾਰਮਾ ਲੈਂਦੇ ਹੋਏ ਕੋਰਸ ਵਿੱਚ ਸ਼ਾਮਲ ਹੋਣ ਦੀ

ਸੀਮਾਨ ਜੀ.

ਆਪ ਜੀ ਦੇ ਦਫਤਰ ਦੇ ਪੱਤਰ ਨੰ. 4822 ਮਿਤੀ 6-11-2022 ਦੇ ਹਵਾਲੇ ਵਿਚ ਸੂਚਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਵਾਈਸ-ਚਾਂਸਲਰ ਸਾਹਿਬ ਨੇ ਆਪ ਜੀ ਦੇ ਕਾਲਜ ਵਿਖੇ ਸੈਸਨ 2009-10 ਤੋਂ ਤੈਰੇ ਅਰ ਉਦੀਐਂਟਿਫ ਸਕੀਮ ਅਧੀਨ ਟੈਕਸਟ ਬੁਕ ਰੈਮਿਸਟਰ ਦਾ ਵਿਸ਼ਾ 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।

ਵਿਸ਼ਵਾਸਪਾਤਰ,

ਸਹਾਇਕ ਰਾਜਿਸਟਰਾਰ (ਕਾਲਜ)

Harjeet Gargal

Principal
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 2021.

Thanking you

Yours sincerely

Harjeet Anjral

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 2021-22. 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 2021. Classes will commence from 1st september 2021 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.

Harjeet Arjhal

Principal

Principal

SMHS Govt. College
Sahibzada Ajit Singh Nagar

S.M.H.S Government College, Mohali

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 diabetes, types of diabetes, introduction to Insulin and its types

Harjeet Singh
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

28 th -30 th nov	structure of Gilipizide, Gilclazide, 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 Fluorescene 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.

Dr. Harjeet Arora
 Principal
 S.M.S. Govt. College
 Sahibzada Abul 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 Fluorescence and Methylene Blue.
9. To carry out preparation 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 Arjyal
Bachelors in Pharmacy
Savitribai Phule Mahavidyalaya

GOVERNMENT COLLEGE, SAHIBZADA AJIT SINGH NAGAR, MOHALI

LIST OF STUDENTS WHO PAID FEES FOR EXAMINATION OF ADD-ON ADVANCED DIPLOMA COURSE IN PHARMACEUTICAL CHEMISTRY (2021-2022)

S.No.	Reg. No.	Roll. No.	Name	Father's Name	Mother's Name	Category	Sex	Medium	Course	Fees	
7501	1	612-19-263	917	Atul Gupta	Mukesh Kumar	Ranjna Devi	General	M	English	Advanced Diploma	600
7502	2	612-19-233	716	Chahat	Lekh Raj	Surjit Kaur	General	F	English	Advanced Diploma	600
7503	3	612-19-1059	3762	Deepak	Shambhu Kushwaha	Shobha Devi	BC	F	English	Advanced Diploma	600
7504	4	612-19-235	718	Geetanjali	Badri Bhatt	Meena Bhatt	General	M	English	Advanced Diploma	600
7505	5	612-19-226	707	Gurpreet Singh	Ravinder Singh	Manjit Kaur	SC	M	English	Advanced Diploma	600
7506	6	612-19-250	910	Gurwinder Singh	Amarjeet Singh	Kuldeep Kaur	SC	M	English	Advanced Diploma	600
7507	7	612-19-245	712	Jagjeet Singh	Bhupinder Singh	Surjeet Kaur	BC	M	English	Advanced Diploma	600
7508	8	612-19-270	918	jagjit Singh	Balbir Singh	Charanjit kaur	BC	M	English	Advanced Diploma	600
7509	9	612-19-227	714	Jaspreet Kaur	Jagtar Singh	Harinder Kaur	SC	F	English	Advanced Diploma	600
7510	10	612-19-236	717	Jaspreet Kaur	Balbir Singh	Charanjit kaur	BC	F	English	Advanced Diploma	600
7511	11	612-19-237	715	Jaspreet Kaur	Jasvir Singh	Kulwinder Kaur	SC	F	English	Advanced Diploma	600
7512	12	612-19-252	909	Nirmal Kaur	Ajaib Singh	Gurmeet Kaur	SC	F	English	Advanced Diploma	600
7513	13	612-19-239	703	Paramjeet Kaur	Bhag Singh	kashmir Kaur	General	F	English	Advanced Diploma	600
7514	14	612-19-229	719	Preeti	Surinder Singh	Sarla Devi	SC	F	English	Advanced Diploma	600
7515	15	612-19-230	708	Pushpa Rani	Kuldip Singh	Anita Devi	SC	F	English	Advanced Diploma	600
7516	16	612-19-1056	3763	Sanjana Kumari	Prem kumar	Raj Kumari	General	F	English	Advanced Diploma	600
7517	17	612-19-260	911	Shahina Parveen	Sultan Mohammad	Kaki Devi	BC	F	English	Advanced Diploma	600
7518	18	612-19-241	706	Simran Kumari	Chander dev	Indrawati Devi	BC	F	English	Advanced Diploma	600
7519	19	612-19-248	702	Simranjeet Singh	Gurmail Singh	Asha Rani	OBC	M	English	Advanced Diploma	600
7520	20	612-19-231	709	Sukhdeep Kaur	Bhinder Singh	Kuljeet Kaur	SC	F	English	Advanced Diploma	600
7521	21	612-19-1061	3758	Vivek Singh	Lachhman Singh	jaswinder Kaur	SC	M	English	Advanced Diploma	600
7522	22	612-19-242	711	Sunaina Rani	Mamraj	Sukhwinder Kaur	BC	F	English	Advanced Diploma	600
7523	23	612-19-1060		Shubham Kumar	Sanjay Bhardwaj	Kiran Devi	SC	M	English	Advanced Diploma	600

Sahibzada Ajit Singh College
Sahibzada Ajit Singh Nagar

Advanced Diploma Theory

ਮਾਟਰ ਨੰਬਰ
ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਦਿੱਤੀ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਹੁੰਚੀ

ਪ੍ਰਤਿ-ਪਹੁੰਚੀ
ਪਰੀਖਿਆ ਦਿਨ 11/04/2022
ਵਿਸ਼ਾ Plasma Chemistry
ਪਰਚਾ (1st Diploma Theory) 140
ਅਧਿਕਤਮ ਅੰਕ 14
ਪਾਸ ਅੰਕ 14

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7501	27
7502	34
7503	25
7504	27
7505	29
7506	30
7507	30
7508	37
7509	38
7510	25
7511	31
7512	30
7513	26
7514	32
7515	32
7516	26
7517	28
7518	25
7519	34
7520	32

ਪਾਸ 20 ਫੇਲ੍ਹ —

G. Anand

ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

Harjeet

Principal
S.M.S.
S.A.S.

Harjeet

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

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ BSc (II) / 2012-2

सिद्धान्त /2012-2
विषय Pharmaceutical Chem.
प्रश्न 01

ਪਰਚਾ Adv. Dip. Course
(Theory)

ਅਧਿਕਤਮ ਅੰਕ. 40

ਪਾਸ ਅੰਕ 14

Advanced Diploma Theory

[illegible]

ਪਾਸ D3 ਫੇਲ

9 analogs

ਪਰਿਵਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

Harjeet Singh
PUP

PUP(O)-9095-25000/10-14

ਦੇਵੇ ਤੇ ਸਤਿਨਾਮ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

Advanced
Diploma
Theory
Int. Ass.

ਪਰੀਖਿਆ BSc III /2012

ਵਿਸ਼ਾ Physical Chem.

ਪਰਚਾ Ad. Dip.

Theory IA
ਅਧਿਕਤਮ ਅੰਕ 20

ਪਾਸ ਅੰਕ 07

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7501	17
7502	18
7503	17
7504	16
7505	17
7506	18
7507	17
7508	17
7509	19
7510	16
7511	18
7512	17
7513	18
7514	18
7515	17
7516	16
7517	18
7518	18
7519	19
7520	17

ਪਾਸ 20 ਰੋਲ —

Gourav Singh

ਪਰੀਖਿਆ ਦੇ ਪ੍ਰੋਫੈਸਰ

Harjeet Goyal

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

ਪੰਜੀਯਕਰ ਦੁਆਰਾ ਫੇ ਮਹੀਨਿਆ ਲਈ
ਦੇਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪਰੀਖਿਆ 35.11...../2022

विषय Pharmacology

ਪਰਚਾ Ad. Dip

(Theory 5) 20

ਪ੍ਰਮਾਣ

03

ਪਗੋਚਿਅਕ ਦੇ ਪੁਰੇ ਹਸਤਾਖਰ

Advanced ^{ਪ੍ਰਗਤੀਸ਼ੀਲ} 13c III 2021
 Diploma ^{ਦਿਪਲੋਮਾ} in ^{ਰਸਾਇਣ} Practical
 Practical ^{ਪ੍ਰਾਕ੍ਟੀਕਲ} 30

ਅਧਿਕਤਮ ਅੰਕ

ਪਾਸ ਅੰਕ

10

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7501	27
7502	28
7503	27
7504	28
7505	28
7506	26
7507	27
7508	28
7509	29
7510	26
7511	26
7512	28
7513	27
7514	28
7515	28
7516	27
7517	27
7518	27
7519	28
7520	28

ਪਾਸ 20 ਫੋਲ

Genab

ਪ੍ਰਸ਼ਾਸਕ ਦੇ ਪੁਰੋਹਤਾਪਰ

Harjeet Arjyal

Principal
 SMHS Govt. College
 Janda Ajit Singh N

ਪਰਗੰਦਾਖਰ ਦੁਆਰਾ ਫੇ ਮਹਾਂਨਿਆ ਲਈ
ਰਾਸ਼ਟਰ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

परीक्षा B.C. III, 12022

दिनांक Phalgun Chait

Advanced Diploma Practical

ਪਰਚਾ Ad. Dis. 30
(Practical) 30
ਅੰਦਰਤਮ ਅੰਦਰ

पुनः १०

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7521	28
7522	28
7523	27
7524	

1. पत्र 03 दिनांक

Franklin

ਪਗਥਿਅਕ ਦੇ ਪਰੇ ਹਸਤਾਖਰ

PUK(O)-8992-25.000/10-12

Harjeet Singh

ਪਰੀਖਿਆਰ ਦੁਆਰਾ ਦਿੱਤੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੋਲ ਨੰਬਰ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆਰ Be-Widya 2022

Advanced
Diploma
Practical
Int. Ass.

ਵਿਸ਼ਾ Pharmaceutical

ਪਰਚੀ Advanced Diploma
(Pharmacy) Practical

ਅਧਿਕਤਮ ਅੰਕ

10

ਪਾਸ ਅੰਕ

04

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7501	07
7502	08
7503	07
7504	07
7505	08
7506	07
7507	07
7508	08
7509	09
7510	08
7511	08
7512	08
7513	08
7514	07
7515	07
7516	08
7517	07
7518	08
7519	07
7520	08

ਪਾਸ 20 ਰੋਲ

Sonal Singh

ਪਰੀਖਿਆਰ ਦੇ ਪ੍ਰਿੰਸੀਪਲ

PUNJ-8992-25.000/10-12

Harjeet Gajjar

Principal
SMHS Govt. C
Sahibzada Aj

ਪ੍ਰਗਤੀਵਾਦੀ ਦੁਆਰਾ ਵੇ ਮਹਿੰਨਿਆਂ ਨਈਂ
ਰਾਖਦੇ ਤੇ ਸੰਭਾਲਣ ਨਈਂ ਪ੍ਰਤਿ ਪਰਦੀ

परीक्षा B & II / 2022

Pharmaceutical Chemistry

ਪਰਚਾ Advanced Diploma
Practical I, A)
ਆਇਕਤਮ ਅੰਕ 10

04

03

Summary

ਪਗੰਬਿਅਕ ਦੇ ਪੁਰੇ ਹਸਤਾਖਰ

Advance Diploma Course
IN Pharmaceutical (2022)

Roll No	NAME	Sign.
7501	AJUL GUPTA	<u>Ajul Gupta</u>
7502	CHAHAT	<u>Chahat</u>
⁷⁵⁰³ Deepak Kumar	Deepak Kumar	<u>Deepak</u>
7504	GEETANJALI	<u>Geetanjali</u>
7505	Gurpreet Singh	<u>Gurpreet Singh</u>
7506	Gurwinder Singh	<u>Gurwinder Singh</u>
7507	Jagreet Singh	<u>Jagreet Singh</u>
7508	Jagjit Singh	<u>Jagjit Singh</u>
7509	Jaspreet Kaur	<u>Jaspreet Kaur</u>
7510	Jaspreet Kaur	<u>Jaspreet Kaur</u>
7511	Jaspreet Kaur	<u>Jaspreet Kaur</u>
7512	NIRHAL KAPOH	<u>Nirhal Kaur</u>
7513	Paranjeet Kaur	<u>Paranjeet Kaur</u>
7514	Preethi	<u>Preethi</u>
7515	Pusna Rani	<u>Pushpa Rani</u>
7516	Sanjana Kumari	<u>Sanjana</u>
7517	Shahina Breen	<u>Shahina Farveen</u>
7518	Simran Kumar	<u>Simran Kumari</u>
7519	Simranjeet Singh	<u>Simranjeet Singh</u>
7520	Sukhdeep Kaur	<u>Sukhdeep Kaur</u>
7521	Vivek Singh	<u>Vivek Singh</u>
7522	Sanaina Kaur	<u>Sanaina Kaur</u>

Harjeet Goyal

Principal

SMHS Govt. College

Sahibzada Ajit Singh Nagar

Government College, S.A.S. Nagar, Mohali
Final Examination
UGC Add on course in Pharmaceutical Chemistry
Course: Advanced Diploma in Pharmaceutical Chemistry
Session 2021-2022

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) Give structure and brand names of the following drugs:

a) Emetine

b) Metronidazole

Q.2) Define the term 'prescription'. Describe, in brief, the various parts of prescription.

Q.3) What is 'sterilisation' and 'disinfection'?

Q.4) Explain any two solid dosage forms.

Q.5) Explain different types of antibiotics

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

SECTION C

Q.8) What are anti fungal drugs? Explain the following drugs in detail:

a) Griseofulvin

b) Fluconazole

OR

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

Harjeet Arora

Sahibzada Arora

SECTION D

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

- a) Gilipizide
- b) Phenformin
- c) Gilclazide

OR

Q.11) Explain 'suspension' and 'emulsion' dosage forms in detail.

SECTION E

Q.12) What are chromophores and auxochromes? What are the different types of shifts in UV spectroscopy?

OR

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

ਨਵੰਬਰ 2021

	22/11/2021	23/11/2021	24/11/2021	25/11/2021	4	5	6	7	8	9	10	11	12	13	14	15
911 Shahina Parveen	P	P	.	.												
703 Paramjit Kaur	P	P	.	.												
716 Chahat	P	P	.	.												
718 Geetanjali	P	P	P	P												
702 Amranyit Singh	P	P	.	P												
706 Simran Kaur	P	P	.	.												
708 Pooja Lani	P	P	P	P												
712 Jagjit Singh	.	P	.	P												
707 Gurpreet Singh	P	P	.	.												
709 Nirmal Kaur	.	P	.	.												
3767 Shubham	.	.	.	.												
719 Preeti	P	P	.	.												
911 Sunaina	.	P	.	.												
715 Jaspreet	.	P	P	P												
717 Jaspreet	P	P	.	.												
Jagjit Singh	.	.	.	.												
910 Gurinder Singh	.	P	.	.												
3762 Deepak	.	P	.	.												
3763 Sanjana	.	P	.	.												
709 Sukhdeep	P	P	P	P												
714 Jaspreet	P	P	.	.												
3758 Vivek	.	P	.	.												
917 Atul Gupta	.	P	.	.												

Principal
22/12/2021

Harjeet Singh
Principal
Sri Govt. College
Sahibzada Ajit Singh

BSc Degree and on completion
 Chemistry (Honours)

December 2021

	10/12/20	11/12/20	12/12/20	13/12/20	14/12/20	15/12/20	16/12/20	17/12/20	18/12/20	19/12/20	20/12/20	21/12/20	22/12/20	23/12/20
911 Shabina Parvan	P	P	P	P	.	P	P	P	P	P	P	P	P	P
703 Parnima Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P
716 Chandan	P	P	P	P	P	.	.	P	P	.	.	.	P	P
718 Gitanjali	P	.	.	P	P	P	P	P	P	.	P	P	P	P
712 Sonamjit Singh	P	P	P	P	P	P	.	P	P	P	P	P	P	P
716 Sonam Kaur	P	.	P	P	P	P	P	P	P	P	P	P	P	P
708 Pooja Rani	P	P	P	P	.	P	P	P	P	P	P	P	P	P
712 Jagjit Singh	P	P	P	P	P	P	.	P	P	P	P	P	P	P
707 Jagpreet Singh	P	P	P	P	P	P	.	P	P	P	P	P	P	P
909 Naman Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8764 Shubham	.	.	P	P	.	.	P	P	P	P	P	P	P	P
719 Preeti	.	P	P	P	P	P	.	P	P	P	P	P	P	P
711 Gunvika	P	P	P	P	P	P	.	P	P	P	P	P	P	P
715 Jaspreet	P	P	P	P	.	P	.	P	P	P	P	P	P	P
717 Jaspreet	P	.	P	P	.	.	.	.	.	.	.	.	.	.
Jagjit Singh	.	.	.	.	.	.	.	.	.	.	.	.	.	.
910 Gurkinder Singh	.	.	.	P	.	P	.	P	P	P	P	P	P	P
3762 Deepak	P	.	P	P	.	P	P	.	.	.	.	.	.	.
3763 Sanyam	P	.	P	P	P	P	P	P	.	P	P	P	P	P
709 Sukhdeep	P	.	P	P	P	P	.	P	P	P	P	P	P	P
714 Jaspreet	P	P	P	P	P	P	.	P	P	P	P	P	P	P
8758 Nisha	P	.	P	P	P	P	.	.	.	.	.	.	.	.
917 Atul Gupta	P	.	P	P	.	P	.	.	.	.	.	.	.	.

Amakshi
 Amakshi

BSc 2nd year

Advanced Diploma
Course in
Chemistry

Roll No. 14 to 32

Attendance - January 2023

		12/1/23	14/1/23	15/1/23	17/1/23	18/1/23	20/1/23	21/1/23	23/1/23	25/1/23	26/1/23	28/1/23	29/1/23	31/1/23
709	Sukhdeep Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P
715	Jaspreet Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P
714	Jaspreet Kaur			P	P	P		P	P	P		P	P	P
909	Nikhil Kaur	P	P	P	P	P	P	P	P	P		P	P	P
911	Shahina Parveen	P	P	P	P	P	P	P	P	P	P	P	P	P
3765	Sanjana	P	P	P	P	P	P	P	P	P	P	P	P	P
702	Simranjit Singh	P	P	P	P	P	P	P	P	P	P	P	P	P
703	Parvinder Kaur	P		P	P	P	P	P	P	P	P	P	P	P
719	Preeti	P	P	P	P	P	P	P	P	P	P	P	P	P
3758	Vineet Singh	P	P	P	P	P	P	P	P	P	P	P	P	P
718	Gurpreet	P	P	P	P	P	P	P	P	P	P	P	P	P
711	Simran Kaur	P	P	P		P	P	P	P	P	P	P	P	P
910	Jagjit Singh	P		P						P				
708	Purkayasth Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P
707	Gurpreet Singh	P	P	P	P	P	P	P	P	P	P	P	P	P
3764	Shubham	P	P	P	P	P	P	P	P	P	P	P	P	P
706	Simran Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P
716	Chahat		P	P	P	P				P				P
910	Gurwinder Singh		P	P	P	P				P				P
712	Jagjit Singh			P	P	P	P	P	P	P	P	P	P	P
917	Atul Gupta			P	P	P	P	P	P	P	P	P	P	P

Foranpal, Harjeet Arjyal
Principal
Govt. College

Bsc Third year

Pharmaceutical Chemistry
(Advanced Diploma Course)

February 2022

	1/2/2022	2/2/2022	3/2/2022	5/2/2022	8/2/2022	10/2/2022	12/2/2022	15/2/2022	16/2/2022	18/2/2022	21/2/2022	23/2/2022	25/2/2022	26/2/2022	28/2/2022
711 Shahid	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
703 Paramjit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
716 Chahal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
718 Gietanjah	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
702 Anamjit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
706 Simran	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
708 Pushpa	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
712 Jagjeet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
707 Gurpreet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
709 Nirmal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3764 Shubham	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
719 Preeti	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
711 Sunaina	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
715 Jaspreet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
717 Jaspreet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Jagjit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
710 Gurwinder	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3762 Deepak	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3763 Sanjana	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
717 Shikha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
714 Jaspreet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3758 Vineet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
717 Atul	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Harjeet Singh

Harjeet Singh
College
Sri Singh Nagar

BSC IIIrd year Add on course in
Pharmaceutical Chem
(Advanced Diploma course)

ਯੋਜਨਾਬੰਦੀ ਰਜਿਸਟਰ March 2022

		10/3/2022	11/3/2022	15/3/2022	16/3/2022	17/3/2022	19/3/2022	30/3/2022	31/3/2022	9	10	11	12	13	14	15	16
911	Shahina	P	P	P	.	.	.	.	.								
703	Paramjit	.	.	.	.	.	.	.	.								
716	Chahat	.	.	.	.	.	.	P	P								
718	Geetanjali	.	.	.	.	.	.	.	.								
702	Simranjit	.	.	P	.	.	P	P	P								
706	Simran	P	P	P	P	P	.	.	.								
708	Pushpa	.	.	P	P	.	P	P	.								
712	Jagjit	.	.	.	.	.	.	.	P								
707	Gurpreet	.	.	.	.	.	.	.	.								
909	Nirmal	P	P	P	P	P	.	.	P								
3764	Shubham	.	.	.	.	.	P	P	P								
719	Preeti	.	.	.	.	.	.	P	P								
711	Runaina	.	.	.	.	.	.	P	P								
715	Jaspreet	P	P	.	P	P	P	P	P								
717	Jaspreet	.	.	.	P	.	.	.	P								
918	Jagjit	.	.	P	.	.	.	.	.								
910	Gurwinder	.	.	.	.	.	.	.	.								
3762	Deepak	.	.	.	.	.	.	.	.								
3763	Ranjana	.	.	.	.	.	.	P	P								
709	Lukhdeep	P	P	.	P	.	P	P	P								
714	Jaspreet	.	.	.	.	.	.	.	.								
3758	Vivek	.	.	P	.	.	.	.	.								
917	Atul	.	.	.	.	.	.	.	.								

Faraz

Harjeet Singh
Principal
Guru Nanak College
Sangrha Ait Singh Nagar

BSc Third year

Add on course in Basic
Chemistry (Advanced
Diploma course)

APRIL 2012

April 2012

		Date										Total	
Sl. No.	Name	1/4/2022	5/4/2022	6/4/2022	18/4/2022	19/4/2022	22/4/2022	26/4/2022	29/4/2022	30/4/2022	6/5/2022 (Practical)	18/5/2022 (Practical)	
911	Shahina	.	P	.	P	.	.	.	.	.	.	P	
703	Paramjit	P	.	P	P	P	P	P	.	.	P	P	
716	Chahal	P	P	P	.	P	P	P	.	.	P	.	
718	Geetanjali	.	.	P	P	P	P	P	P	P	P	P	
702	Simranjit	P	P	P	P	P	P	P	P	P	P	P	
706	Simran	P	.	P	P	P	P	P	P	.	P	P	
708	Pushpa	P	.	P	P	P	P	.	P	P	P	P	
712	Lagjit	.	.	.	P	.	P	.	.	.	.	P	
707	Gulpreet	P	.	.	P	P	P	.	P	P	.	P	
909	Nirmal	.	P	.	P	.	.	.	.	.	.	P	
3764	Shubham	.	.	.	.	.	.	.	.	.	.	.	
719	Preeti	P	P	P	P	P	P	P	P	.	P	P	
711	Surain	P	P	P	P	P	P	P	.	.	P	P	
715	Jaspreet	P	.	P	P	P	P	P	P	.	P	P	
717	Jaspreet	P	.	.	P	.	.	P	P	.	.	P	
	Lagjit	.	.	.	P	.	.	.	.	.	.	P	
910	Gurinder	.	P	.	P	.	.	.	.	.	.	P	
3762	Deepak	.	.	.	P	.	.	.	.	.	.	P	
3763	Sanjana	.	.	.	P	.	.	.	.	.	.	P	
709	Mandeep	P	P	P	P	P	P	P	P	P	P	P	
714	Jaspreet	P	P	P	P	P	P	P	P	P	P	P	
3758	Vineet	.	.	.	P	.	.	.	.	.	.	P	
917	Atul	.	P	.	P	.	.	.	.	.	.	P	

Principal

Harjeet Goyal
Principal
S.P.S. Govt. College
Gahozada Ajit Singh N.

Final IIIrd year (Add-on course in
Pharmaceutical Chemistry
Advanced Diploma in

May 2022

	2/5/2022	10/5/2022	13/5/2022	14/5/2022	16/5/2022	18/5/2022
911 Shakhina	.	.	.	.	.	.
703 Paranjit	P	P	P	.	.	.
716 Chahal	P	.	P	.	P	P
718 Gurbanjali	P	.	P	P	P	P
702 Simranjit	P	P	P	P	P	P
706 Simran	P	P	.	P	P	P
708 Pushpa	P	P	.	P	P	P
712 Jagjit	.	.	P	.	.	.
707 Garpreet	.	P	P	.	.	.
709 Nirmal	.	.	.	.	.	.
3764 Shubham	.	.	.	P	.	.
719 Preeti	P	P	P	.	P	P
711 Sunaina	P	.	.	.	.	.
715 Jaspreet	P	P	P	P	P	P
717 Jaspreet	P	.	P	P	P	P
Jagjit	.	.	.	.	.	.
910 Gurminder	.	.	.	.	.	.
3762 Deepak	.	.	.	.	.	.
3763 Sanjawa	.	.	.	.	.	.
709 Subhdeep	P	P	P	P	P	P
714 Jaspreet	.	P	P	P	P	P
378 Vinek	.	.	P	.	.	.
917 Atul	.	.	.	.	.	.

Gonabhi

Harender Goyal
SMMS Govt. College
Sahibzada Ajit Singh