

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

ਨੰ. 1316-/-/ਕਾਲਜ/ਸ-3
ਮਿਤੀ 22।੫।੨੦੧੦।

ਪਿੰਸੀਪਲ,

ਸਾਡੇ ਜਾਣਕਾਰੀ
ਕਾਲਜ

ਵਿਸ਼ਾ:- ਸਾਡੇ ਜਾਣਕਾਰੀ ਕਾਲਜ ਦੇ ਸਾਡੇ ਜਾਣਕਾਰੀ ਕਾਲਜ ਦੇ ਸਾਡੇ ਜਾਣਕਾਰੀ

ਸ਼੍ਰਮਨ ਜੀ,

ਆਪ ਜੀ ਦੇ ਦਫ਼ਤਰ ਦੇ ਪੱਤਰ ਨੰ. ੬੫੨੨ ਮਿਤੀ ੬-੩-੨੦੧੦ ਦੇ ਹਵਾਲੇ ਵਿਦ ਸੂਚਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਵਾਈਸ-ਚਾਂਸਲਰ ਸਾਹਿਬ ਨੇ ਆਪ ਜੀ ਦੇ ਕਾਲਜ ਵਿਖੇ ਸੈਸ਼ਨ 2009-10 ਤੋਂ ਕੈਰੋ ਅਰ ਉਦੀਐਟਿਡ ਸਕੀਮ ਅਧੀਨ ਕਾਲਜ ਮੈਕਸ਼ਨ ਦਾ ਵਿਸ਼ਾ ਸ਼ੁਰੂ ਕਰਨ ਦੀ ਪ੍ਰਵਾਨਗੀ ਅਕਾਦਮਿਕ ਕੌਂਸਲ ਦੀ ਪ੍ਰਵਾਨਗੀ ਦੀ ਆਸ ਵਿਚ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। ਇਥੇ ਦਿੱਤੇ ਗਏ ਸਾਡੇ ਜਾਣਕਾਰੀ ਹਨ ਕਿ ਕਾਲਜ ਯੂ.ਜੀ.ਸੀ. ਅਤੇ ਯੂਨੀਵਰਸਿਟੀ ਦੀਆਂ ਸੁਰਤਾਂ ਦੋ ਪਾਲਣਾ ਕਰਨ ਦਾ ਪਾਬੰਦ ਹੋਵੇਂ।

ਵਿਸ਼ਵਾਸਪਾਤਰ,

ਸਹਾਇਕ ਰਜਿਸਟਰਾਰ (ਕਾਲਜ)

Harjeet Singh
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 2018.

Thanking you

Yours sincerely

Harjeet Gujral
Principal
SMHS Govt. College
Sahibzade 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 2018-19. 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 2018. Classes will commence from 1st september 2018 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
Harsheed Singh
S.M.H.S Government College, Mohali
Principal
S.M.H.S Govt. College
Sahibzada Ajit Singh Nagar

MONTH	TOPICS COVERED
6 th sep-10 th sep	1.Photochemistry Introduction, consequences of light absorption, The Jablonski diagram, Lambert beer law,
12 th - 17 th sep	Grothus draper law, Photochemical reactions
19 th -24 th sep	
26 th -30 th sep	2.Biochemistry Transport processes across cell membrane.
1 st oct-8 th oct	enzymes; nomenclature, enzyme kinetics & mech. Of action.
10 th -15 th oct	Mech. Of inhibition, Isozymes, Co-enzymes
17 th -22 nd Oct	3.Name reactions Aldol condensation, Claisen Schmidt condensation,
24 th -31 st oct	Grignard reaction, wurtz reaction, wurtz-fittig reaction, Diazotization reaction, Cannizaro's reaction
1 st nov- 5 th nov	4.Antiulcer drugs- Classification of drugs and structure of omeprazole, pantoprazole, cimetidine
7 th -12 th nov	5.NSAIDS- Classification of drugs and structure of Aspirin, Ibuprofen.
14 th -19 th nov	Paracetamol, Nimesulide, Indomethacin, Diclofenac.
21 st -26 th nov	6.Antihistamines- Classification of drugs and structure of Diphenhydramine, Chlorphenhydramine
28 th -30 th nov	7.General and local Anaesthetic- Classification of drugs and structure of thiopentone and propofol, benzocaine
1 st dec-3 rd dec	8.Antiseptics and disinfectants- Classification and structure of povidone-iodine, benzalkonium chloride
5 th -10 th dec	9.Antihypertensive- Classification of drugs and structure of Propranolol, verapamil
12 th -17 th dec	10.Chemotherapeutic agents- Classification of antibiotics and structure of tetracycline, amoxicillin
19 th -24 th dec	11.AntiTB- Classification of drugs and structure of nicotinamide, ethionamide, isoniazid
26 th -31 st dec	12.Chromatography Thin Layer Chromatography- Introduction, Principle and Application
2 nd jan-7 th jan	Thin Layer Chromatography- Introduction, Principle and Application
9 th -14 th jan	Column Chromatography- Introduction, Principle and Application
16 th -21 st jan	Column Chromatography- Introduction, Principle and Application
23 rd -31 st jan	13.Advanced analytical techniques 1H NMR- General introduction, chemical shift, factors affecting chemical shift
1 st feb-4 th feb	X-Ray Crystallography- Principle
6 th -11 th feb	Bragg's law and application
13 th -18 th feb	IR spectroscopy- Principle
20 th -28 th feb	Characteristic absorption bands of some organic functional groups Carbonyl, C-C double bond, C-C triple bond, Phenyl ring
1 st mar-4 th mar	1.To carry out synthesis of Chalcone from Acetophenone and Benzaldehyde 2.Monitoring of Chalcone formation from TLC
6 th -11 th mar	3.To carry out synthesis of formation of epoxide of Chalcone

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	4. Monitoring of epoxychalcone formation from Chalcone by TLC
13 th -18 th mar	5. To carry out acid catalization of epoxychalcone and monitoring of reaction by TLC
20 th -25 th mar	6. To carry out base catalization of epoxychalcone and monitoring of reaction by TLC 7. To determine the calcium content by complexometric titration using EDTA
27 th -31 st mar	8. Synthesis of Schiff's bases from Amine and Benzaldehyde
1 st apr-8 th apr	9. Column chromatography of Dye and spinach
10 th -15 th apr	10. Introduction to soxhlet apparatus (Demonstation) 11. Introduction to Clevenger apparatus (Demonstation)
17 th -22 nd apr	12. Various stereochemical (E & Z, Cis & Trans, R & S, Boat and Chair conformations of Cyclohexane)
24 th -29 th apr	13. General NMR spectrum problems

**SYLLABUS OF
DIPLOMA COURSE IN PHARMACEUTICAL CHEMISTRY**

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

Continued for session- 2019-20, 2020-21, 2021-22, 2022-23

3 hrs/ 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. Photochemistry

Introduction, consequences of light absorption, The Jablonski diagram, Lambert beer law, Grothus draper law, Photochemical reactions

2. Biochemistry

Transport processes across cell membrane, enzymes: nomenclature, enzyme kinetics & mech. Of action, Mech. Of inhibition, Isozymes, Co-enzymes

3. Name reactions

Aldol condensation, Claisen Schimidt condensation, Grignard reaction, wurtz reaction, wurtz-fittig reaction, Diazotization reaction, Cannizaro's reaction

4. Antiulcer drugs- Classification of drugs and structure of omeprazole, pantoprazole, cimetidine

5. NSAIDS- Classification of drugs and structure of Aspirin, Ibuprofen, Paracetamol, Nimesulide, Indomethacin, Diclofenac.

6. Antihistamines- Classification of drugs and structure of Diphenhydramine, Chlorphenhydramine

SECTION-B

7. General and local Anaesthetic- Classification of drugs and structure of thiopentone and propofol, benzocaine

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8. **Antiseptics and disinfectants-** Classification and structure of povidone-iodine, benzalkonium chloride
9. **Antihypertensive-** Classification of drugs and structure of Propranolol, verapamil
10. **Chemotherapeutic agents-** Classification of antibiotics and structure of tetracycline, amoxicillin
11. **AntiTB-** Classification of drugs and structure of nicotinamide, ethionamide, isoniazid
12. **Chromatography**
 - a. **Thin Layer Chromatography-** Introduction, Principle and Application
 - b. **Column Chromatography-** Introduction, Principle and Application
13. **Advanced analytical techniques**
 - a. **^1H NMR-** General introduction, chemical shift, factors affecting chemical shift
 - b. **X-Ray Crystallography-** Principle, Bragg's law and application
 - c. **IR spectroscopy-** Principle, Characteristic absorption bands of some organic functional groups Carbonyl, C-C double bond, C-C triple bond, Phenyl ring

LABORATORY

Practical Carries 30 marks +Internal assessment-10

1. To carry out synthesis of Chalcone from Acetophenone and Benzaldehyde
2. Monitoring of Chalcone formation from TLC
3. To carry out synthesis of formation of epoxide of Chalcone
4. Monitoring of epoxychalcone formation from Chalcone by TLC
5. To carry out acid catalization of epoxychalcone and monitoring of reaction by TLC
6. To carry out base catalization of epoxychalcone and monitoring of reaction by TLC
7. To determine the calcium content by complexometric titration using EDTA
8. Synthesis of Schiff's bases from Amine and Benzaldehyde
9. Column chromatography of Dye and spinach
10. Introduction to soxhlet apparatus (Demonstration)
11. Introduction to Clevenger apparatus (Demonstration)
12. Various stereochemical (E & Z, Cis & Trans, R & S, Boat and Chair conformations of Cyclohexane)
13. General NMR spectrum problems

Books Recommended

1. I.L. Finer, Organic Chemistry, Vol. I & II, The English Language Book Society, London and Longman Group Limited, London (Latest edition).
2. R.T. Morrison and R.N. Royd, Organic Chemistry, 6th Edition, Prentice Hall of India. Private Limited, New Delhi (Latest edition).
3. R. N. Acheson, An Introduction to the chemistry of Heterocyclic Compounds, Inter-Sciences Publishers, New York (Latest edition).
4. A. W. Martin, J. Swarbrick and A. cammarata, Physical Pharmacy, 4th Edition, Lea and Febiger, Philadelphia, 1993.
5. Remington: The Science and Practical of Pharmacy, Mack Publishing Co., USA. 2005.

6. M.J. Pelczar, Reid and Chan Microbiology, 4th Edition, Tata Mc Graw Hill Publishing Co., New Delhi.
7. S. J. Carter, Cooper and Gunn's Dispensing for Pharmaceutical Students, Pitman Medical Publishing Co., 12th Edition, Chapters 20 to 28.
8. A. L. Gennaro, Remington: The Science and Practice of Pharmacy, Lippincott Williams and Wilkins, USA, 2000, 108.
9. S.J. Carter Cooper and Gunn, Tutorial Pharmacy, 6th Edition, Pitman Medical, 1972.
10. W.B. hugo and A.D. Russel Pharmaceutical Microbiology, Blackwell Scientific Publications, Oxford, 1987.
11. McCabe and Smith, Unit Operations for Chemical Engineering, 6th Edition McGraw Hill N.Y.
12. G. Gunn and S.J. Carter and Gunn's Tutorial Pharmacy, Pitman Medical Publishing Co., London, 1972.
13. L.A. Lachman, H.A. Liberman and J.L. Kanig. The Theory and Practice of Industrial Pharmacy, 3rd Edition Lea and Febigar, Philadelphia, USA.
14. Badger Introduction to Chemical Engineering McGraw Hill Co., Interracial Student Edition (Latest Edition).
15. E.A. Rowlins, Bentley's Text book of Pharmaceutics, Bailliere Tindall and Cox, London (Latest Edition).
16. K. Sambamurthy, Pharmaceutical Engineering New Age Int. Publishers, New Delhi, 2003.
17. T.E. Wallis, Textbook of Pharmacognosy, J & A Churchill Ltd. London, 1967.
18. W.C. Evans, Trease and Evans Pharmacognosy (15th Ed.), W.B. Saunders Limited, 2002.
19. V.E. Tyler, L.R. Brady & J.E. Robbers, Pharmacognosy (9th Edition) K.M. Varghese Company Bombay, India 1988.
20. C.R. Craig and R.E. Stitzel Modern Pharmacology, Little Brown and Company, 6th Edition (2003).
21. Goodman & Gilman's "The Pharmacological basis of Therapeutics", 9th edition, Eds. A.G. Gilman, J.G. Hardman, L.E. Limbird, P.B. Molinoff, R.W. Ruddon, Macmillian publishing Co., Inc (2001).
22. B.G. Katzung, Basic and Clinical Pharmacology, Lange Medical Publications, 8th Ed. (2000).

Haryanvi
Principal
SMTS Govt. College
Sahibzada Ajit Singh Nagar

DEPARTMENT OF CHEMISTRY
COLLEGE OF ENGINEERING & TECHNOLOGY

Roll No.	Name	Father's Name	Category	Gender	Medium	Programme	Admission Year	
612-17-216	Pooja	Sita	General/Educated	F	English	Diploma Course in Pharmaceutical Chemistry	600	
612-17-217	Mangreet	Jitender Dass	Normal Kaur	F	English	Diploma Course in Pharmaceutical Chemistry	600	
612-17-218	Afreen	Kulwinder Singh	Normal Kaur	F	English	Diploma Course in Pharmaceutical Chemistry	600	
612-17-219	Sukhpreet	Gurpreet Singh	Sukhwinder Kaur	F	English	Diploma Course in Pharmaceutical Chemistry	600	
612-17-220	Alka Devi	Shivdev Singh	General	F	English	Diploma Course in Pharmaceutical Chemistry	600	
612-17-221	Manjot Kaur	Harsimran Singh	Sukhwinder Kaur	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-222	Jaspreet Kaur	Sukhbir Singh	Balinder Kaur	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-223	Prabhlo Kaur	Gurbir Singh	Sukhpal Kaur	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-224	Divya Sharma	Mohinder Singh	Kusum Sharma	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-225	Sunil Kumar	Harbans Singh	Manjot Kaur	SC	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-226	Jaswinder Kaur	Pritpal Singh	Daljeet Kaur	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-227	Chweta	Suresh Kumar	Kamla Devi	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-228	Kersan	Baljinder Singh	Renu Bala	SC	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-229	Copreet Singh	Mukhtiar Singh	Varinder Kaur	SC	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-230	Vikramjeet	Kuldeep Singh	Surinder Kaur	SC	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-231	Narneet Kaur	Manjot Singh	Shupinder Kaur	General	F	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-232	Ravinder	Manjot Singh	Kulwinder Kaur	SC	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-233	Manish	Manjeet Singh	Joti Kaur	General	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-234	Alvin	Sandeep Singh	Zisha Ranu	General	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-235	Ushar Kaur	Krishan Kaur	Neelam Ranu	General	M	English	Diploma Course in Pharmaceutical Chemistry	600
612-17-236	Ankit	Erosen Singh	Susmita Rana	F	M	English	Diploma Course in Pharmaceutical Chemistry	600

11-12-19
 Principal,
 SMAPSCV, Govt. College
 Sahibzada Ajit Singh Nagar

ਸਨ੍ਹਾਰੀ ਨੰਬਰ

ਪੰਜਾਬ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
ਗਵਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ 75/..... /200

ਵਿਸਾ Pharmaceutical Chem.

ਪਰਚਾ Diploma Course Chemistry

ਅਧਿਕਤਮ ਅੰਕ 60

ਪਾਸ ਅੰਕ 14

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7365	30
66	26
67	25
68	27
69	30
70	28
71	26
72	23
73	28
74	24
75	22
76	24
77	25
78	19
79	21
80	29
81	23
81	AB
83	18
84	17
7385	20
ਪਾਸ	ਫੇਲ

Principal Ajit
SMHS Govt. College
Sahibzada Ajit Singh Nagar

ਸਨਾਪਤੀ ਨੰਬਰ

ਪੜੀਪਿਆਵ ਦੁਆਰਾ ਕੇ ਮਹੀਨਿਆਂ ਲਈ
ਗੁਪਤ ਤੇ ਸੰਬਲਣ ਲਈ ਪੜਿ ਪਰਚੀ

ਪੜਿ-ਪਰਚੀ

ਪੜੀਪਿਆ July /2009

ਵਿਸ਼ਾ Chemistry

ਪਰਚਾ Diploma Course

..... Interval Assessment

ਅਧਿਕਾਰ ਅੰਕ 20

ਪਾਸ ਅੰਕ 07

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7365	18
66	15
67	17
68	18
69	17
70	17
71	16
72	15
73	15
74	15
75	16
76	16
77	14
78	16
79	15
80	16
81	15
82	Ab
83	14
84	14
85	15
ਪਾਸ 20	ਫੇਲ 01

Hajip Singh
Principal
SMHS College
Sahibzada Jit Singh Nagar

..... ਸੰਭਾਲ ਦੇ। ਤੇ ਗੁਪਤ

ਸਨਾਪਤੀ ਨੰਬਰ

ਪ੍ਰਮੀਪਿਆਕ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
ਗੱਥਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪ੍ਰਮੀਪਿਆ /200

ਵਿਸ਼ਾ Diploma cassette

ਪਰਚਾ Pharmacy practical.

ਅਧਿਕਤਮ ਅੰਕ 40

ਪਾਸ ਅੰਕ 14

ਰੋਲ ਨੰਬਰ	ਅੰਕ
7365	36
7366	33
67	30
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79	34
80	27
81	29
82	A.b
83	29
84	34
7385	32

ਪਾਸ 26. ਫੇਲ 1

Hajeeb Gujral

Principal
SMHS Govt. College
Sahibzada Singh Nag

ਪੂਰਵਿਕਾਕਾਦ ਪੂਰਵ ਹਸਤਾਖਰ

Peop.

Harpreet

Afgeen

Sukpreet Kaur

Alha Devi

Maryot Kaur

Yaspreet Cospret

Brichhjet

Divya Sharma

Sunil Kumar

Sarjinder Jhuneja

Ketan Yumbreygh

Vikramjeet

Navneet Kaur

Rainder

Shur Sharm

Chetan

Dwipit

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612-17-297

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612-17-246

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Uma Singh
Fahad
Sarita
Poonam
Roshni
Kritika
Aarti
Kritika
Santosh
Chetan
Divyanshu

Student Name	Class	Gender	Subject	Language	Fee	Course Type
Poonam	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Harpreet Kaur	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Normal Kaur	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Reetika Dhami	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Kirandeep Singh	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Nisha Devi	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Harsimran Singh	9	SC	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Sukhwinder Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Rajinder Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Sukhwinder Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Gurpreet Singh	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Mohan Lal Sharma	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Harbans Lal	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Jaswinder Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Sunit Kumar	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Harbans Lal	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Prabhno Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Dnyaneshwara	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Sunit Kumar	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Harbans Lal	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Surendra Kumar	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Karanpreet Singh	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Surinder Kaur	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Varinder Kaur	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Mukund Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Vikramjeet	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Ishmeet Kaur	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Manjeet Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Manjeet Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Rajinder Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Hardeep Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Hardeep Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Hardeep Singh	SC	M	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Sanjay Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Kishan Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Neeru Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Simran Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Nishant Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Nishant Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry
Simran Kaur	General	F	Mathematics	English	600	Diploma Course in Pharmaceutical Chemistry

Haryan

**Principal,
SMHPSSCV, Govt. College,
Sahibzada Ajit Singh Nagar,**

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

Final Theory Examination

UGC Add on Course in Pharmaceutical Chemistry

Course: Diploma course in Pharmaceutical Chemistry

Subject: Pharmaceutical Chemistry

Session: 2018-2019

Max. Marks: 40

Max. Time: 2:00 hrs

SECTION A

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

- Q. 1) Explain the following reactions:
- a) Cannizaro's reaction
 - b) Aldol Condensation reaction

- Q. 2) Explain
- a) Isozymes
 - b) Co- enzymes

Q. 3) Explain Bragg's law and give its applications.

Q. 4) What is chemical shift? What are the factors affecting chemical shift?

Q. 5) Explain Jablonski diagram in detail.

Section B, C, D and E carries 2 long answer type questions of 5 marks each. Attempt only one from each section.

SECTION B

Q. 6) What are anti hypertensive agents? Explain in detail the following:

- a) Propranolol
- b) Verapamil

OR

Q. 7) What is tuberculosis? Explain any two anti-tuberculosis drugs in detail.

*Hajeeb Anjum
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar*

N-Tabs

Admission No.

Diploma Course

Adm. No.	Name	Attendance											
		21	22	23	04	11	12	18	19	25	26	27	28
667	Deewinder K	P	P	P	A	A	A	C	S	P			
668	Ranjit Kaur	P	P	P	P	P	P	A	C				
669	Daspreet Kaur	P	P	P	P	P	P	A	C				
876	Vikramjeet Singh	P	P	P	P	P	A	A	C				
885	Narinder Kaur	P	P	P	P	P	P	C	A				
881	Shreya	P	I	P	P	P	P	P	P				
877	Afreen	P	I	A	O	P	P	P	P	A			
866	Irshad Kaur	B	P	P	P	P	P	P	A	P			
555	Rajinder Kaur	P	P	P	P	P	P	P	P	A			
361	Alka Devi	B	B	P	P	P	A	P	O	O			
362	Harpreet Kaur	A	A	B	P	P	P	P	P	O			
364	Bruni Singh	P	C	P	P	P	P	P	I	O			
365	Jaspreet Kaur	A	A	A	P	P	P	A	A	A			
363	Chetan Saini	P	I	P	P	P	P	P	P	O			

Harijeet Singh
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

Diploma Course

ਕਲਾਸੀ ਅਤੀਥੀ

ਮਾਰਗ

No.	Name	Date												Total
		20/08	21/08	22/08	23/08	04/09	11/09	17/09	24/09	01/10	08/10	15/10	22/10	
661	Jaswinder K	P	P	P	A	A	A	P	S	P				
662	Manjot Kaur	P	P	P	P	P	P	P	A	P				
660	Jaspreet Kaur	P	P	P	P	P	P	A	P	S				
875	Vikramjeet Singh	P	P	P	P	P	A	A	P	A				
863	Narneet Kaur	P	P	A	P	P	P	P	P	P				
881	Shweta	P	P	P	P	P	P	A	P	S				
879	Aafreen	P	I	A	A	P	P	P	P	A				
866	Prabhjot Kaur	A	A	P	P	P	P	P	A	S				
655	Rajvir Sharma	A	A	A	P	P	P	F	P	N				
3701	AKKA Devi	A	A	P	P	P	A	P	S	S				
362	Honepreet Kaur	A	A	A	P	A	A	P	P	P				
369	Raminder Singh	P	P	P	P	P	P	P	P	A				
3702	Renu Sharma	A	A	A	P	A	P	A	A	A				
373	Chetan Shukla	P	P	P	P	P	P	P	P	P				

Hajeeb Ajjal
 Principal
 SMHS Govt. College
 Sahibzada Ajit Singh Nagar

Diploma Course

ਸਟੋਰਿਡੇ ਡਾ. ਸਿ. ਵਿ. ਨੰ: 52

ਹਾਜ਼ਰੀ ਰਜਿਸਟਰ

ਕਾਲਜ

No. ਰੈਂਕ	Name	Date																
		8 10	9 10	29 30	30 10	5	6	7	8	9	10	11	12	13	14	15	16	17
661	Jaswinder Kaur	P	P	P	P													
662	Manjot Kaur	P	P	P	P													
660	Jaspreet Kaur	P	P	P	P													
876	Vikramjeet	P	P	P	P													
863	Anveet Kaur	P	P	A	A													
881	Sandeeta	P	P	P	P													
879	Anfreen	P	P	A	P													
866	Parabjit Kaur	P	P	P	P													
855	Divya Sharma	P	P	P	P													
3701	Alka Devi	P	P	P	P													
862	Manpreet Kaur	P	P	P	P													
869	Ravinder Singh	P	P	P	P													
3702	Asun Sharma	P	P	P	P													
3703	Chetan Shukla	P	P	A	P													
	Vikramjeet	P	P	P	P													
874	Suril Kumar	P	P	A	P													
	Munish Kumar	P	P	P	A													
3705	Ketan	P	P	P	P													
	Pooja	P	P	A	P													
	Gurpreet Singh	P	A	P	P													
	Sushil Kumar	P	P	P	P													

Harjeet Singh

Principal
Sardar Giani Zail Singh College
Sanibzada Giani Zail Singh Nagar

Project Computer

Diploma Course

ਮਾਰੀਚਿ ਡਾ ਸਿ. ਵਿ. ਨੰ. 52

ਕਾਲਜ

ਹਾਜ਼ਰੀ ਰਜਿਸਟਰ

ਨੰ.	ਨਾਮ	ਕਾਲਜ											
		1	2	3	4	5	6	7	8	9	10	11	12
661	Jawinder Kaur	P	P	A	P	P	P	A	A	R	R	P	T
662	Narjeet Kaur	A	P	P	A	P	A	A	P	A	P	P	T
663	Jyoti Kaur	P	P	P	P	P	P	P	A	P	P	P	T
664	Viramjeet	A	P	P	P	P	R	R	R	P	P	P	T
665	Anurat Kaur	P	P	A	A	P	P	P	P	P	P	P	T
666	Sandeeta	A	P	P	P	P	P	P	P	P	P	P	T
679	Arjeen	P	P	P	P	P	P	P	P	P	P	P	A
686	Pankajit Kaur	P	P	A	P	P	P	P	P	P	P	P	P
695	Disha Sharma	P	P	P	P	P	P	P	P	P	P	P	T
3701	Alka Devi	P	P	P	P	P	P	P	A	A	P	P	P
862	Manpreet Kaur	P	P	P	P	P	R	A	P	P	P	P	P
869	Ravinder Singh	A	P	P	A	P	P	P	A	A	A	A	P
3702	Aditi Sharma	P	P	P	A	P	R	R	P	P	P	P	P
3703	Cheran Shukla	P	P	P	P	P	R	R	P	P	P	P	P
	Vikramjeet Singh	P	P	P	P	P	P	P	P	P	P	P	P
374	Sunit Kumar	P	P	P	P	P	P	P	P	P	P	P	P
	Munish Kumar	P	P	P	P	P	P	P	P	P	P	P	P
3705	Ketan	P	P	P	A	P	P	P	A	P	P	P	P
	Praveen	P	P	P	P	P	P	P	P	P	P	P	P
	Gurpreet Singh	P	P	P	P	P	P	P	A	P	P	P	P
	Sushil Kumar	P	P	P	P	P	P	P	P	P	P	P	P

Harjeet Singh

Principal
ISMPS Govt. College
Sahibzada Ajit Singh

ਪਾਸਰੋ ਰਜਿਸਟਰ-af-Diploma Course

ਗਲੋਬਲ ਮਾਲੀ

ਰਾਲ ਨੰ	ਨਾਮ	ਅਤੇ													
		01	02	03	04	05	06	07	08	09	10	11	12	13	14
865	Preeti	P	P	A	P	P	P	P	P	P	P	P	P	P	P
862	Manpreet K.	P	P	P	A	P	P	P	A	P	P	P	P	P	P
879	Anfreen	A	P	A	P	P	P	A	P	P	A	P	P	P	P
873	Sukhwinder K.	P	A	P	P	A	D	A	P	P	P	P	P	P	P
870	Nikita Panj	P	P	P	P	A	P	A	P	A	P	P	P	P	P
662	Manjot K.	P	P	P	P	P	P	P	A	P	P	P	P	P	P
663	Jaswinder K.	P	R	P	P	P	P	A	P	P	P	P	P	P	P
866	Pavinder K.	P	P	P	A	A	P	P	P	P	P	P	P	P	P
875	Parveen Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P
874	Sandeep Kaur	P	R	P	R	A	P	P	P	P	P	P	P	P	P
871	Jaswinder K.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
881	Shweta	P	P	P	A	P	P	P	A	P	P	P	P	P	P
3705	Ketan	P	P	P	P	P	A	P	P	A	P	P	P	P	P
854	Gurpreet Singh	P	P	P	P	P	P	A	P	A	P	P	P	P	P
876	Vikramjeet	P	P	A	P	A	A	A	A	A	A	A	A	A	A
863	Neeru K.	P	P	P	A	A	A	A	A	A	P	P	P	P	P
869	Ravinder Singh	P	A	P	P	P	P	P	P	P	P	P	P	P	P
3702	Arun Sharma	P	P	A	P	P	P	P	P	P	P	P	P	P	P
3733	Chetan Shukla	A	A	P	P	P	P	P	A	P	P	P	P	P	P
881	Rubik Rana	P	P	P	P	P	P	P	A	P	P	P	P	P	P

Hm:-

Hazred arjpal
Principal
SMHS Govt. College
Salarpuria Ait Singh Nagar

ਹਾਜ਼ਰੀ ਰਜਿਸਟਰ Add-on Diploma Course in ਕਾਲਜ G.C. Mohali
Pharmaceutical.

No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		Q1 02 03	Q2 03	Q3 03	Q4 03	Q1 03												
815	Pooja	P	R	A	D	A	P											
812	Manpreet K.	A	P	P	P	P	P											
819	Rekha	P	P	P	A	A	P											
813	Sukhpreet K.	A	P	A	P	P	A											
3701	Hibra Rani	P	P	A	A	A	A											
642	Manjeet K.	A	A	P	P	P	P											
660	Jaspreet K.	A	R	A	A	P	P											
816	Pankajit K.	P	P	P	P	P	P											
655	Dilpreet Kaur	A	A	P	P	P	P											
874	Sushil Kumar	P	P	A	P	P	A											
661	Jaswinder K.	P	A	A	A	P	P											
881	Shivinder	A	A	A	P	P	P											
3705	Ketan	A	P	A	A	A	A											
884	Gurpreet Singh	P	A	P	A	P	P											
876	Vikramjeet	P	A	A	P	A	P											
863	Nimrat K.	A	P	P	A	P	P											
869	Raminder Singh	Q	P	P	P	P	P											
3702	Pawan Sharma	Q	P	P	A	P	A											
3703	Chetan Shukla	A	A	P	P	A	A											
881	Ankit Ranu	P	P	P	P	P	P											

Harjeet Singh
Principal
S.P.S. Govt. College
Saniblada Ajit Singh Nagar

Principal,
Govt. College
S.A.S. Noida (M.P.)

जल्दी खिला जा सके क्र. 52 Advance Diploma Course in Instrumentation
८ मई, २०१९

Theory

साइंस

प्रैक्टिकल

साइंस

प्रैक्टिकल

साइंस

प्रैक्टिकल

साइंस

प्रैक्टिकल

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
7131	Harpinder Singh	P	P	P	A	A	A	A	A	P	A	P	A	P	P	P	P
7132	Rohit Sharma	P	P	P	A	A	A	P	P	A	A	A	A	A	P	P	P
7133	Yash Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7134	Rajkumar Singh	A	A	A	A	A	A	A	A	P	A	A	A	A	P	P	P
7135	Lakhbir Singh	A	A	A	A	A	A	A	A	P	A	A	A	A	P	P	P

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	P	P	A	P													
2	P	A	A	P													
3	P	P	P	P													
4	A	P	P	P													
5	A	P	P	P													

रामपाल
गोविंद
स. नगर (MCM)