

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

ਨ. 1316-.../ਕਾਲਜ-3

ਮਿਤੀ 22/11/2009

ਪ੍ਰਿੰਸੀਪਲ,

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ

ਪਟਿਆਲਾ

ਵਿਸ਼ਾ:- ਗੈਰੇਜ਼ ਮਾਮਲੇ ਕੋਲ ਫਾਰਗਾਨੇ ਵਿੱਚ ਕੀਤੇ ਗਏ

ਸ਼ੀਮਾਨ ਜੀ,

ਆਪ ਜੀ ਦੇ ਦਫਤਰ ਦੇ ਪੱਤਰ ਨੰ. 4822- ਮਿਤੀ 6-11-2009 ਦੇ ਹਵਾਲੇ ਵਿਚ ਦੂਰਿਤ
ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਵਾਈਸ-ਚਾਂਸਲਰ ਸਾਹਿਬ ਨੇ ਆਪ ਜੀ ਦੇ ਕਾਲਜ ਵਿਖੇ ਸੈਸ਼ਨ 2009-10 ਤੋਂ ਤੈਰੇ ਅਰ
ਉਦੀਐਂਟਿਡ ਸਕੀਮ ਅਧੀਨ ਫਾਰਗਾਨੇ ਵਿੱਚ ਕੀਤੇ ਗਏ ਦਾ ਕਿਸਾ
ਸ਼ੁਰੂ ਕਰਨ ਦੀ ਪ੍ਰਵਾਨਗੀ ਅਕਾਦਮਿਕ ਕੌਂਸਲ ਦੀ ਪ੍ਰਵਾਨਗੀ ਦੀ ਆਸ ਵਿਚ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। ਇਥੇ ਇਹ
ਨੋਟ ਕਰਨਾ ਹੈ ਕਿ ਕਾਲਜ ਯੂ.ਜੀ.ਸੀ. ਅਤੇ ਯੂਨੀਵਰਸਿਟੀ ਦੀਆਂ ਸ਼ਰਤਾਂ ਦੀ ਪਾਲਣਾ ਕਰਨ ਦਾ ਪਾਬੰਦ ਹੋਵੇਗਾ।

ਵਿਸ਼ਵਾਸਯੁਕਤਰ,

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 Gargal
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 Singh

S.M.H.S Government College, Mohali

Principal
SMHS Govt. College
Sambzada Ajit Singh Nagar

LESSON PLAN FOR ADD-ON COURSE IN PHARMACEUTICAL CHEMISTRY

Session- 2018-2019,20,21,22,23

For B.Sc. 1st year (Medical and Non- medical) (sem 1 and 2)

Subject: Add on Certificate course in Pharmaceutical Chemistry

Start of course: 2nd week of September 2022

End of course: 1st week of May 2023

MONTH	TOPICS COVERED
6 th sep-10 th sep	1. Acids & Bases: acid base theory, specification of acidity and basicity
12 th - 17 th sep	Official inorganic acids (Boric Acid, Hydrochloric Acid, Nitric Acid, Phosphoric Acid). Non-official inorganic acid (Sulphuric Acid),
19 th -24 th sep	Official inorganic bases (Strong Ammonia Solution, Calcium Hydroxide, Potassium Hydroxide, Sodium Carbonate, Sodium Carbonate, Soda lime).
26 th -30 th sep	2. Buffers: Theory and Mechanism
1 st oct-8 th oct	Pharmaceutical Buffer selection, Pharmaceutical buffer systems.
10 th -15 th oct	3. Essential and Trace Ions: Iron
17 th -22 nd Oct	Copper, Zinc, Chromium
24 th -31 st oct	4. Gastrointestinal Agents: Acidifying agents
1 st nov- 5 th nov	antacids (antacid products: Sodium Bicarbonate, Aluminium containing antacids.
7 th -12 th nov	Aluminium Hydroxide, Tribasic Calcium Phosphate, Magnesium containing Antacids
14 th -19 th nov	Magnesium Carbonate, Magnesium Hydroxide. Practical- 1. The student should be introduced to the main analytical through demonstrations. They should have a clear understanding of a typical analytical balance, the requirement of good balance, weights, care and use of balance methods of weighing and error on weighing. The student should also be acquainted with general apparatus required in various analytical procedures.
21 st -26 th nov	5. Topical Agents: Astringents: Official compounds of Aluminium and Zinc.
28 th -30 th nov	6. Dental products Anticaries agents: Fluorides, Phosphates
1 st dec-3 rd dec	7. Nuclear Chemistry: Nuclear composition Practical- 2. Standardization of analytical weights and calibrations of volumetric apparatus.
5 th -10 th dec	Force and stability, isotopes, radioactive emission, measurement of radioactivity,
12 th -17 th dec	model of decay, half-life period, artificial radioactivity, application in pharmacy
19 th -24 th dec	8. Coordination Compounds and Complexation: Theoretical consideration
26 th -31 st dec	8. Coordination Compounds and Complexation: Theoretical consideration Practical- 3. Acid Base Titrations: Preparation and standardization of acids and bases.
2 nd jan-7 th jan	8. Coordination Compounds and Complexation: Theoretical consideration

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Principal
SMHS Govt. College
Ghazda Ajit Singh Nagar

	Practical- 4. Oxidation–Reduction Titrations: Preparation and standardization of some redox titrants e.g potassium permanganate, potassium dichromate, iodine, sodium thiosulphate
9 th -14 th jan	official products (Calcium Disodium EDTA). Practical- 5. Use of Gravimetric Analysis shall be covered like estimation Nickel and Copper
16 th -21 st jan	9. Acid Base Titrations: Acid base concept. Role of the solvent, Relative strengths of acids and bases
23 rd -31 st jan	Law of action. Common ion effect, ionic product of water, pH, Hydrolysis of salts, Handerson-Hasselbach equation.
1 st feb-4 th feb	Buffer and buffer capacity. Acid Base indicators, Practical- 6. The student should be introduced to the various laboratory techniques through demonstration involving single step synthesis of some selected organic compounds of medicinal importance.
6 th -11 th feb	Theory of Indicators, Choice of indicators. Practical- 7. Identification of Organic compounds having functional group: Acidic, Phenolic, Aldehyde, Ketone.
13 th -18 th feb	Neutralization curves (Strong acid strong base, strong acid weak base, weak acid strong base and weak acid weak base).
20 th -28 th feb	10. Oxidation –Reduction titrations: Concept of oxidation and reaction.
1 st mar-4 th mar	Redox reactions, equivalent weight of oxidizing and reducing agents, electrochemical cells
6 th -11 th mar	Reduction potential, standard reduction potential, Nernst equation
13 th -18 th mar	Cell representations, measurement of electrode potential Practical- 8. Introduction to the use of stereo models. 9. Limit test for Chloride, Sulphate, Lead, Iron
20 th -25 th mar	measurement of electrode potential and its application in determining the equilibrium constant of a reaction.
27 th -31 st mar	11. Theoretical basis of qualitative detection of inorganic cations and anions. Practical- 10. Quantitative Inorganic analysis.
1 st apr-8 th apr	12. Stereochemistry: Introduction, Stereoisomerism, Enantiomerism,
10 th -15 th apr	Diastereoisomerism, optical activity, chiral centre, Racemic modification
17 th -22 nd apr	Meso-structure, Configuration, Reaction involving stereoisomers, Stereospecific reactions.
24 th -29 th apr	13. Add Structure nomenclature Preparation & Reaction of: Alkane, Alkene,
1 st may- 6 th may	Alkynes and their cyclic analogs, Alkyl Halides Benzene

SYLLABUS

CERTIFICATE COURSE IN PHARMACEUTICAL CHEMISTRY

For 2018-19, 2019-20 and 2020-21, 2021-22, 2022-23 session

31 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. Acids & Bases: acid base theory, specification of acidity and basicity. Official inorganic acids (Boric Acid, Hydrochloric Acid, Nitric Acid, Phosphoric Acid). Non-official inorganic acid (Sulphuric Acid), Official inorganic bases (Strong Ammonia Solution, Calcium Hydroxide, Potassium Hydroxide, Sodium Carbonate, Soda lime).
2. Buffers: Theory and Mechanism, Pharmaceutical Buffer selection, Pharmaceutical buffer systems.
3. Essential and Trace Ions: Iron, Copper, Zinc, Chromium.
4. Gastrointestinal Agents: Acidifying agents, antacids (antacid products : Sodium Bicarbonate, Aluminium containing antacids, Aluminium Hydroxide, Tribasic Calcium Phosphate, Magnesium containing Antacids, Magnesium Carbonate, Magnesium Hydroxide).
5. Topical Agents:
Astringents: Official compounds of Aluminium and Zinc.
6. Dental products
Anticaries agents: Fluorides, Phosphates.
7. Nuclear Chemistry: Nuclear composition, Force and stability, isotopes, radioactive emission.

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Pharm.D. College
Shri G. S. College
Sanbada Apt Singh Nagar

measurement of radioactivity, model of decay, half life period, artificial radioactivity, application in pharmacy.

8. Coordination Compounds and Complexation: Theoretical consideration and official products (Calcium Disodium EDTA).

SECTION B

9. Acid Base Titrations: Acid base concept, Role of the solvent, Relative strengths of acids and bases, Law of action, Common ion effect, ionic product of water, pH, Hydrolysis of salts, Handerson-Hasselbach equation, Buffer and buffer capacity, Acid Base indicators, Theory of Indicators, Choice of indicators, Neutralization curves (Strong acid strong base, strong acid weak base, weak acid strong base and weak acid weak base).
10. Oxidation –Reduction titrations: Concept of oxidation and reaction, Redox reactions, equivalent weight of oxidizing and reducing agents, electrochemical cells, Reduction potential, Standard reduction potential, Nernst equation, Cell representations, measurement of electrode potential and its application in determining the equilibrium constant of a reaction.
11. Theoretical basis of qualitative detection of inorganic cations and anions.
12. Stereochemistry: Introduction, Stereoisomerism, Enantiomerism, Diastereoisomerism, optical activity, chiral centre, Racemic modification, Meso-structure, Configuration, Reaction involving stereoisomers, Stereospecific reactions.
13. Add Structure nomenclature Preparation & Reaction of : Alkane, Alkene, Alkynes and their cyclic analogs, Alkyl Halides Benzene.

LABORATORY

3Hrs./Week

Max. Time: 3 Hrs.

Max. Marks: 40

1. The student should be introduced to the main analytical through demonstrations. They should have a clear understanding of a typical analytical balance, the requirement of good balance, weights, care and use of balance methods of weighing and error on weighing. The student should also be acquainted with general apparatus required in various analytical procedures.
2. Standardization of analytical weights and calibrations of volumetric apparatus.
3. Acid Base Titrations: Preparation and standardization of acids and bases.
4. Oxidation –Reduction Titrations: preparation and standardization of some redox titrants e.g. potassium permanganate, potassium dichromate, iodine, sodium thiosulphate.

Harjit Singh
Principal
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Sambzada Ajit Singh Nagar

5. Use of Gravimetric Analysis shall be covered like estimation Nickel and Copper.
6. The student should be introduced to the various laboratory techniques through demonstration involving single step synthesis of some selected organic compounds of medicinal importance.
7. Identification of Organic compounds having functional group: Acidic, Phenolic, Aldehyde, Ketone.
8. Introduction to the use of stereo models.
9. Limit test for Chloride, Sulphate, Lead, Iron.
10. Quantitative Inorganic analysis.

BOOKS RECOMMENDED

1. J.H. Block, E. Roche, T.O. Soine & C.O. Wilson, "Inorganic Medicinal and Pharmaceutical Chemistry". Lea & Febiger, Philadelphia, P.A.
2. L.M. Artherden, Benteley & Drivers, "Textbook of Pharmaceutical Chemistry", 8th edition.. Oxford University Press, Delhi.
3. Pharmacopoeia of India, Govt. of India, Ministry of Health.
4. A.H. Beckett and Stenlake, " Practical Pharmaceutical Chemistry", part 1, 3rd edition.
5. J. Bassett, R.C. Denny, G.H. Jeffery, J. Mendham, Vogel's Textbook of Quantitative Inorganic Analysis including elemental instrumental/ Analysis, the ELBS and Longman. London (Latest edition).
6. F. G. Mann and B.C. Sunders , "Practical organic chemistry", The English Language Book Society and Longman Group London (Latest edition).
7. A.I. Vogel, "A textbook of practical Organic Chemistry", The English Language Book Society and Longman Group London (Latest edition).
8. E.I. Elien, " Stereochemistry of Carbon Compounds". Mc GrawHill Book Company, inc., New York (Latest Edition).

Harjeet Gargal
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

6/11/2020

GOVERNMENT COLLEGE, SAHIBZADA AJIT SINGH NAGAR, MOHALI									
LIST OF STUDENTS WHO PAID FEES FOR EXAMINATION OF ADVANCED DIPLOMA ON CERTIFICATE COURSE (2019-2020)									
No.	Reg. No.	Roll. No.	Name	Father's Name	Mother's Name	Category	Sex	Medium	Course
1	612-19-243	5511	Akhil Sharma	Indar Mohan Sharma	Anjana Sharma	General	M	English	Certificate Course
2	612-19-263	5512	Atul Gupta	Mukesh Kumar	Ranjana Devi	General	M	English	Certificate Course
3	612-19-233	5513	Chahat	Lekh Raj	Surjit Kaur	General	F	English	Certificate Course
4	612-19-1059	5514	Deepak	Shambhu Kushwaha	Shobha Devi	General	F	English	Certificate Course
5	612-19-	5515	Geetanjali	Badri Bhatt	Meena Bhatt	General	M	English	Certificate Course
6	612-19-226	5516	Gurpreet Singh	Ravinder Singh	Manjit Kaur	SC	M	English	Certificate Course
7	612-19-250	5517	Gurwinder Singh	Amarjeet Singh	Kuldeep Kaur	SC	M	English	Certificate Course
8	612-19-251	5518	Harjot Singh	Ranjit Singh	Tajinder Kaur	BC	M	English	Certificate Course
9	612-19-245	5519	Jagjeet Singh	Bhupinder Singh	Surjeet Kaur	BC	M	English	Certificate Course
10	612-19-	5520	Jagjit Singh	Balbir Singh	Charanjit Kaur	BC	M	English	Certificate Course
11	612-19-227	5521	Jaspreet Kaur	Jagtar Singh	Harinder Kaur		F	English	Certificate Course
12	612-19-236	5522	Jaspreet Kaur	Balbir Singh	Charanjit Kaur	SC	F	English	Certificate Course
13	612-19-237	5523	Jaspreet Kaur	Jasvir Singh	Kulwinder Kaur	General	F	English	Certificate Course
14	612-19-258	5524	Kajal Sharma	Kulwinder Singh	Kiran Bala		F	English	Certificate Course
15	612-19-271	5525	Karanveer	Charanjeet Singh	Balinder Kaur		M	English	Certificate Course
16	612-19-228	5526	Kiran	Harpreet Singh	Charanjit Kaur		F	English	Certificate Course
17	612-19-252	5527	Nirmal Kaur	Ajaib Singh	Gurmeet Kaur	SC	F	English	Certificate Course
18	612-19-239	5528	Paramjeet Kaur	Bhag Singh	Kashmir Kaur	General	F	English	Certificate Course
19	612-19-229	5529	Preeti	Surinder Singh	Sarla Devi	SC	F	English	Certificate Course
20	612-19-230	5530	Pushpa Rani	Kuldip Singh	Anita Devi	SC	F	English	Certificate Course
21	612-19-277	5531	Rahulveer	Tarloak Chand	Lata Kumari	SC	M	English	Certificate Course
22	612-19-	5532	Sachin Sharma	Gurdhyan Sharma	Balbir Sharma	General	M	English	Certificate Course
23	612-19-1056	5533	Sanjana Kumari	Prem Kumar	Raj Kumari	BC	F	English	Certificate Course
24	612-19-260	5534	Shahina Parveen	Sultan Mohammad	Kaki Devi	BC	F	English	Certificate Course
25	612-19-241	5536	Simran Kumari	Chander dev	Indrawati Devi	BC	F	English	Certificate Course
26	612-19-248	5537	Simranjeet Singh	Gurmail Singh	Asha Rani	OBC	M	English	Certificate Course
27	612-19-231	5538	Sukdeep Kaur	Bhinder Singh	Kuljeet Kaur	SC	F	English	Certificate Course
28	612-19-1061	5510	Vivek Singh	Lachhman Singh	Jaswinder Kaur		M	English	Certificate Course
29	612-19-242	5539	Sunaina Rani	Mamraj	Sukhwinder Kaur	BC	F	English	Certificate Course
30	612-19-1060	5535	Shubham Kumar	Sanjay Bhardwaj	Kiran Devi		M	English	Certificate Course

Akhil Sharma

Akhil Sharma

Akhil Sharma

Geetanjali

Geetanjali

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Total Students

① Certificate Course - 30

② Diploma Course - 11

③ Advanced Diploma - 16

H. G. Grewal
Principal,
SMHPSKV, Govt. College,
Sahibzada Ajit Singh Nagar.

ਸੈਂਟਰ ਨੰਬਰ

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਫੇ ਮਾਰੀਆ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਕਾਲਣ ਲਈ ਪ੍ਰਾਤ ਮਾਰੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ ~~5511~~ /2014

ਵਿਸਾ ~~5511~~

ਪਰਚਾ ~~5511~~

ਅਧਿਕਤਮ ਅੰਕ

ਪਾਸ ਅੰਕ

S.No.					
1					
2					
3					
4					
5					

ਰੋਲ ਨੰਬਰ	ਅੰਕ
1) Arun	21
2) Arun	31
3) Arun	27
4) Arun	16
5) Arun	36
6) Arun	30
7) Arun	29
8) Arun	30
9) Arun	29
10) Arun	25
11) Arun	32
12) Arun	36
13) Arun	22
14) Arun	29
15) Arun	Absent
16) Arun	20
17) Arun	33
18) Arun	24
19) Arun	29
20) Arun	27

ਪਾਸ 19 ਫੇਲ -

Harjeet Arjun
Principal
Govt. College
Sarabada Ajit Singh Nagar
ਸਰਬਸ਼ਾਹੀ ਦੇ ਪੁਰਾ ਗਾਇਕ

ਸੈਂਟਰ ਨੰਬਰ
 ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
 ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ/201.....
 ਵਿਸ਼ਾ
 ਪਰਚਾ
 ਅਧਿਕਤਮ ਅੰਕ
 ਪਾਸ ਅੰਕ

1)
 2)
 3)
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 7)
 8)
 9)
 10)

ਰੋਲ ਨੰਬਰ	ਅੰਕ
5531	25
5532	27
5533	18
5534	29
5535	26
5536	34
5537	29
5538	38
5539	27
5510	27

ਪਾਸ ਫੋਲੋ
Harjeet Singh
 Principal
 Govt. College
 Samudra Singh Nagar
 ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ
 PU(P)(O)-9095-25000-10-14

ਸੈਂਟਰ ਨੰਬਰ

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

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ/201.....

ਵਿਸ਼ਾ

ਪਰਚਾ

ਅਧਿਕਤਮ ਅੰਕ

ਪਾਸ ਅੰਕ

ਰੋਲ ਨੰਬਰ	ਅੰਕ
5511	15
5512	18
5513	17
5514	15
5515	18
5516	17
5517	18
5518	17
5519	17
5520	16
5521	18
5522	19
5523	15
5524	18
5525	Absent
5526	17
5527	18
5528	17
5529	18
5530	19

ਪਾਸ 19 ਫੈਲੂ

Harjeet Singh

ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

Principal

Govt. College

Samozada Ajit Singh Nagar

ਸਨਾਖਤੀ ਨੰਬਰ

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਦਿੱਤੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ ਨੰਬਰ 55711/200

ਵਿਸ਼ਾ *General Chemistry*

ਪਰਚੀ *Certificate Course*
(*Intermediate*)

ਅਧਿਕਤਮ ਅੰਕ 30

ਪਾਸ ਅੰਕ 11

ਰੋਲ ਨੰਬਰ	ਅੰਕ
55711	24
55712	26
55713	25
55714	22
55715	26
55716	24
55717	26
55718	26
55719	24
55720	23
55721	22
55722	27
55723	24
55724	26
55725	absent
55726	20
55727	24
55728	24
55729	26
55730	28

ਪਾਸ 19 ਫੋਲੂ

Harjeet Singh

Principal
SMHS Govt. College
Sahibzada
5,000/2-07

ਸ਼ਨਾਖਤੀ ਨੰਬਰ

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਛੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ ਨੰਬਰ...../200 ਪਰ

विभाग : Chemistry पृष्ठ : 1

परचा Artipalorise
(Electrical)

ਅਧਿਕਤਮ ਅੰਕ 30

ਪਾਸ ਅੰਕ (1)

ਰੋਲ ਨੰਬਰ	ਅੰਕ
55-31	25
55-32	27
55-33	22
55-34	26
55-35	24
55-36	27
55-37	24
55-38	28
55-39	26
55-10	26

ਪਾਸ 10 : ਫੇਲ੍ਹ

Harjeet Singh
Sri Govt. College
Sahibzada Ajit Singh Nagar

ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

ਸ਼ਨਾਖਤੀ ਨੰਬਰ

ਪਰੀਖਿਅਕ ਦੁਆਰਾ ਦਿੱਤੇ ਮਹੀਨਿਆਂ ਲਈ
ਰੱਖਣ ਤੇ ਸੰਭਾਲਣ ਲਈ ਪ੍ਰਤਿ ਪਰਚੀ

ਪ੍ਰਤਿ-ਪਰਚੀ

ਪਰੀਖਿਆ 18.12.2002

ਵਿਸ਼ਾ: Physics (Chemistry)

ਪਰਚਾ Certificate (General)
(H.S. and A.S. level)

ਅਧਿਕਤਮ ਅੰਕ 10

ਪਾਸ ਅੰਕ 04

ਰੋਲ ਨੰਬਰ	ਅੰਕ
5511	6
5512	7
5513	5
5514	6
5515	8
5516	7
5517	6
5518	7
5519	8
5520	5
5521	6
5522	5
5523	8
5524	7
5525	Abxent
5526	7
5527	6
5528	7
5529	8
5530	7

ਪਾਸ 19 ਫੋਲੋ

Harjeet Arjyal

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar
Sahibzada Ajit Singh Nagar

ਪਰੀਖਿਅਕ ਦੇ ਪੂਰੇ ਹਸਤਾਖਰ

2019-2020

GOVERNMENT COLLEGE , SAHIBZADA AJIT SINGH NAGAR , MOHALI										
LIST OF STUDENTS WHO PAID FEES FOR EXAMINATION OF ADD-ON CERTIFICATE COURSE (2019-2020)										
S.No.	Reg. No.	Roll. No.	Name	Father's Name	Mother's Name	Category	Sex	Medium	Course	Fees
1	612-19-243	5511	Akhil Sharma	Inder mohan Sharma	Anjana Sharma		M	English	Certificate Course	600
2	612-19-263	5512	Atul Gupta	Mukesh Kumar	Ranjna Devi	General	M	English	Certificate Course	600
3	612-19-233	5513	Chahat	Lekh Raj	Surjit Kaur	General	F	English	Certificate Course	600
4	612-19-1059	5514	Deepak	Shambhu Kushwaha	Shobha Devi		F	English	Certificate Course	600
5	612-19-	5515	Geetanjali	Badri Bhatt	Meena Bhatt	General	M	English	Certificate Course	600
6	612-19-226	5516	Gurpreet Singh	Ravinder Singh	Manjit Kaur	SC	M	English	Certificate Course	600
7	612-19-250	5517	Gurwinder Singh	Amarjeet Singh	Kuldeep Kaur	SC	M	English	Certificate Course	600
8	612-19-251	5518	Harjot Singh	Ranjit Singh	Tajinder kaur	BC	M	English	Certificate Course	600
9	612-19-245	5519	Jagjeet Singh	Bhupinder Singh	Surjeet Kaur	BC	M	English	Certificate Course	600
10	612-19-	5520	jagjit Singh	Balbair Singh	Charanjit kaur	BC	M	English	Certificate Course	600
11	612-19-227	5521	Jaspreet Kaur	Jagtar Singh	Harinder Kaur		F	English	Certificate Course	600
12	612-19-236	5522	Jaspreet Kaur	Balbair Singh	Charanjit kaur		F	English	Certificate Course	600
13	612-19-237	5523	Jaspreet Kaur	Jasvir Singh	Kulwinder Kaur	SC	F	English	Certificate Course	600
14	612-19-258	5524	Kajal Sharma	Kulwinder Singh	kiran Bala	General	F	English	Certificate Course	600
15	612-19-271	5525	Karanveer <i>AB</i>	Charanjeet Singh	Baljinder Kaur		M	English	Certificate Course	600
16	612-19-228	5526	Kiran	Harpreet Singh	Charanjit kaur		F	English	Certificate Course	600
17	612-19-252	5527	Nirmal Kaur	Ajaib Singh	Gurmeet Kaur	SC	F	English	Certificate Course	600
18	612-19-239	5528	Paramjeet Kaur	Bhag Singh	kashmir Kaur	General	F	English	Certificate Course	600
19	612-19-229	5529	Preeti	Surinder Singh	Sarla Devi	SC	F	English	Certificate Course	600
20	612-19-230	5530	Pushpa Rani	Kuldip Singh	Anita Devi	SC	F	English	Certificate Course	600
21	612-19-277	5531	Rahulveer	Tarlo Chand	Lata kumari	SC	M	English	Certificate Course	600
22	612-19-	5532	Sachin Sharma	Gurdhyan Sharma	Balbair Sharma		M	English	Certificate Course	600
23	612-19-1056	5533	Sanjana Kumari	Prem kumar	Raj Kumari	General	F	English	Certificate Course	600
24	612-19-260	5534	Shahina Parveen	Sultan Mohammad	Kaki Devi	BC	F	English	Certificate Course	600
25	612-19-241	5536	Simran Kumari	Chander dev	Indrawati Devi	BC	F	English	Certificate Course	600
26	612-19-248	5537	Simranjeet Singh	Gurmail Singh	Asha Rani	OBC	M	English	Certificate Course	600
27	612-19-231	5538	Sukhdeep Kaur	Bhinder Singh	Kuljeet Kaur	SC	F	English	Certificate Course	600
28	612-19-1061	5510	Vivek Singh	Lachhman Singh	jaswinder Kaur		M	English	Certificate Course	600
29	612-19-242	5539	Sunaina Rani	Mamraj	Sukhwinder Kaur	BC	F	English	Certificate Course	600
30	612-19-1060	5535	Shubham Kumar	Sanjay Bhardwaj	Kiran Devi		M	English	Certificate Course	600

Total Students

① Certificate Course - 30

② Diploma Course - 11

③ Advanced Diploma - 16

Harjeet Grewal
Principal,
SMHPSSCV, Govt. College,
Sahibzada Ajit Singh Nagar.

Akhil Sharma
Atul Gupta
Chahat
Deepak
Geetanjali
Gurpreet Singh
Gurwinder Singh
Harjot Singh
Jagjeet Singh
Jagjit
Jaspreet
Jasvir
Kajal
Karanveer
Kiran
Nirmal
Paramjeet
Preeti
Pushpa Rani
Rahulveer
Sachin
Sanjana
Shahina
Simran
Simranjeet
Sukhdeep
Vivek Singh
Sunaina
Shubham

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

Final Theory Examination

UGC Add on course in Pharmaceutical Chemistry

Course: Certificate Course in Pharmaceutical Chemistry

Subject: Pharmaceutical Chemistry

Session: 2019-2020

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) Define half- life in detail.

Q. 2) Explain the terms: a) Buffer solutions

b) Buffer Capacity

Q. 3) Explain radio-active day? Mention units of radioactivity.

Q. 4) Define the following : a) Arrhenius Concept

b) Bronsted- Lowry Concept

Q. 5) What are Chelating Agents? Give examples.

SECTION B

This section carries 2 long answer type questions of 5 marks each. Attempt any one of them.

Q. 6) Define anticaries agents? Explain the following compounds with method of preparation, properties and their uses: a) Stannous Fluoride b) Sodium Fluoride

OR

Q. 7) Explain the following:

a) Lewis Concept

b) Conjugate Acid-Base pairs

c) Strong Ammonia solution

d) Nitric Acid

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Govt. C

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

SECTION C

This section carries 2 long answer type questions of 5 marks each. Attempt any one of them.

Q. 8)) Explain the following terms:

- a) Law of mass action
- b) common-ion effect
- c) Acid- Base indicators
- d) pH

OR

Q. 9) What are topical agents? Explain the followings:

- a) Aluminium chloride
- b) Zinc Sulphate
- c) Alum

SECTION D

This section carries 2 long answer type questions of 5 marks each. Attempt any one of them.

Q.10) Explain the following:

- a) Difference between Diastereomers and Enantiomers
- b) Optical Activity
- c) Stereoisomerism

What are gastrointestinal agent? Explain the following:

- a) Tribasic Calcium Phosphate
- b) Magnesium Carbonate heavy

OR

Q. 11) Explain the following terms:

- a) Nernst Equation
- b) Redox Reactions
- c) Standard Electrode Potential

SECTION E

This section carries 2 long answer type questions of 5 marks each. Attempt any one of them.

Q.12) What are gastrointestinal agent? Explain the following:

- a) Tribasic Calcium Phosphate
- b) Magnesium Carbonate heavy

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Principal
B.S. Govt. College
Sandzada Ajit Singh Nagar

OR

Q. 13) Explain the following terms with example:

a) Essential elements

b) Any three reactions of Alkanes and Alkynes

Hazjeet Anjial

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

ਗਲਬੀ ਹਸਪਤਲ - Certificate Course in Pharma ਵਾਰਡ - G.C. Hall

क्र.सं.	नाम	24/01	25/01	31/01	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Sukhpreet Singh	A	A	P																												
2	Ankur	A	P	A																												
3	Sultan Parveen	P	P	P																												
4	Karanveer Singh	P	A	P																												
5	Harjot Singh	P	A	P																												
6	Kajal Sharma	A	P	A																												
7	Atul Gupta	A	P	A																												
8	Sachin Sharma	P	A	P																												
9	Gurpreet Singh	A	A	P																												
10	Akhil Sharma	P	A	P																												
11	Amandeep	A	A	A																												
12	Simranjeet Singh	P	A	A																												
13	Jagjeet Singh	P	A	P																												

Principal
S.P.S. Govt. College
Salibzada Ajit Singh Nagar
Gurgaon, Haryana

ਰਾਜਸਰੋ ਰਜਿਸਟਰ- Certificate Course in Pharma ਵਾਲਜ਼ G.C. Mohali

ਰੋਲ ਨੰ	ਨਾਮ	24/01	25/01	31/01	4	5	07/08	08/08	14/08	19/08	20/08	22/08	12/13	14	15	16	17
1	Sukhpreet Singh	A	A	P	↑		P	P	P	A	A	P					
2	Ankur	A	P	P	↑		A	A	A	P	A	A					
3	Sultan Parveen	P	P	P	↑		P	P	P	P	P	P					
4	Karanveer Singh	P	A	P	↑		P		P	P	P	P					
5	Harjat Singh	P	A	P	↑		A	A	A	A	A	A					
6	Kajal Sharma	A	P	A	↑		A	P	P	P	A	A					
7	Atul Gupta	A	P	A	↑		P	A	A	P	P	A					
8	Sachin Sharma	P	A	P	↑		A	P		P	A	P					
9	Gurpreet Singh	A	A	P	↑		A	P	P	P	A	A					
10	Abhil Sharma	P	A	P	↑		P	A	A	P	A	P					
11	Amandeep	A	A	A	↑		A	A	A	P	P	P					
12	Simranjeet Singh	P	A	A	↑		A	P	P	A	A	A					
13	Jayjeet Singh	P	P	P	↑		P	A	P	P	P	P					

Principal

Sri E. Govt. College
Sahibzada Ajit Singh Nagar

Principal

Feb 2020

[CERTIFICATE COURSE]

ਸਿੱਖੀ ਕਾ. ਸਿ. ਵਿ. 3. 52

BSc Ist year (Add-on course in Pharmaceutical Chemistry)

ਫਰਵਰੀ, 2020

(Theory)

	10/2/2020	11/2/2020	12/2/2020	13/2/2020	14/2/2020	15/2/2020	17/2/2020	18/2/2020	19/2/2020	20/2/2020	22/2/2020	24/2/2020	25/2/2020	26/2/2020	27/2/2020	29/2/2020
601	P	P	.	P	.	P	P	P	P	P	.	.	.	P	.	.
603	P	P	P	P	.	P	P	P	.	P	P	P	.	P	P	P
605	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
606	P	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P
607	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
608	.	P	P	P	P	P	P	P	.	.	P	P	.	P	P	.
609	P	P	P	.	.	P	P	P	P	.	P	P	.	P	.	.
610	P	P	P	P	.	P	P	P	P	P	.	P	.	P	.	P
612	.	P	P	P	P	P	P	P	.	.	.	.	.	P	P	.
613	P	.	P	.	P	P	P	P	.	.	P	P	.	P	P	P
614	P	P	P	P	P	P	P	P	P	.	.	P	.	.	P	.
616	.	P	.	P	.	.	P	P	P	.	.	P	.	P	.	P
617	P	P	P	P	P	.	P	P	P	P	.	P	.	P	.	.
619	P	P	P	.	P	P	P	P	P	P	P	P	.	P	P	.
620	P	P	P	P	P	P	.	P	P	.	P	P	P	.	P	P
623	P	P	P	.	P	P	P	P	.	P	.	P	.	.	.	.
624	P	P	P	.	P	P	P	P	.	.	.	P	.	P	P	.
630	.	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.
660	P	.	P	.	.	.	.	.	.	.	.	.	P	.	.	.
803	.	.	P	P	P	.	P	.	.	.	.	.	.	P	P	.
807	.	P	.	.	P	.	.	.	.	.	.	.	.	P	P	P
808	P	.	P	P	P	.	.	.	.	.	.	.	.	P	P	.
809	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
815	P	P	.	P	P	P	.	P	.	.	.	.	.	.	.	.
819	P	.	.	P	P	P	.	P	.	.	.	.	.	.	.	.
827	P	.	.	P	P	.	P	P	P	P	.	.	.	.	.	.
828	P	.	P	.	.	.	.	.	.	.	.	.	.	.	.	.

Harjeet Singh

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

March 2020

Herlycale course
Add-on course in
Pharmaceutical
Chemistry

ਸਟੀਡੀਓ ਡੀ ਜੀ ਵਿ. ਨੰ. 52

Bsc 1st year

ਗੁਜਰੀ ਰਜਿਸਟਰ

March, 2020

ਕਾਲਜ

(Theory)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
601		P	P	P	P	A	P	P	P	A	P	P	P	P				
603		P	P	A	P	P	P	P	A	A	P	A	A	P				
605		P	P	P	P	P	P	P	P	A	P	P	P	P				
606		A	P	A	P	P	A	A	A	A	P	P	P	P				
607		P	P	P	A	P	A	P	A	P	P	P	A	P				
608		P	P	A	P	A	A	P	P	A	P	P	P	P				
609		P	P	P	A	P	P	P	P	A	P	A	P	P				
610		P	P	A	P	A	P	A	P	P	P	P	A	P				
612		P	P	P	P	P	P	P	A	P	P	A	P	A				
613		A	P	A	P	P	A	P	P	A	P	A	P	A				
614		P	P	P	P	P	P	P	P	P	P	A	P	P				
616		P	P	A	P	A	A	P	P	A	P	P	P	P				
617		A	P	A	P	P	P	P	P	P	P	A	A	A				
619		P	P	P	P	A	A	P	P	P	P	P	P	P				
620		P	P	A	P	P	P	A	P	A	P	A	P	P				
623		A	P	P	A	P	A	P	A	P	P	P	P	P				
624		P	P	A	P	A	A	P	P	P	P	P	P	P				
630		P	P	A	A	A	A	P	P	A	A	A	A	P				
660		P	A	A	A	A	A	P	P	P	A	A	P	P				
803		P	P	P	P	A	A	A	P	A	P	A	P	A				
807		A	P	P	P	A	A	A	A	P	P	P	A	A				
808		P	P	P	P	A	A	P	A	P	P	A	A	A				
809		P	P	P	P	A	P	A	P	A	A	P	P	P				
815		P	A	P	A	A	P	P	P	A	A	A	P	A				
819		P	A	P	P	A	A	A	A	P	P	P	P	P				
827		A	A	P	A	P	A	P	A	P	A	A	A	P				
828		A	P	P	P	P	P	P	A	A	A	A	A	P				

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Sanbzada Ajit Singh
Jalgaon

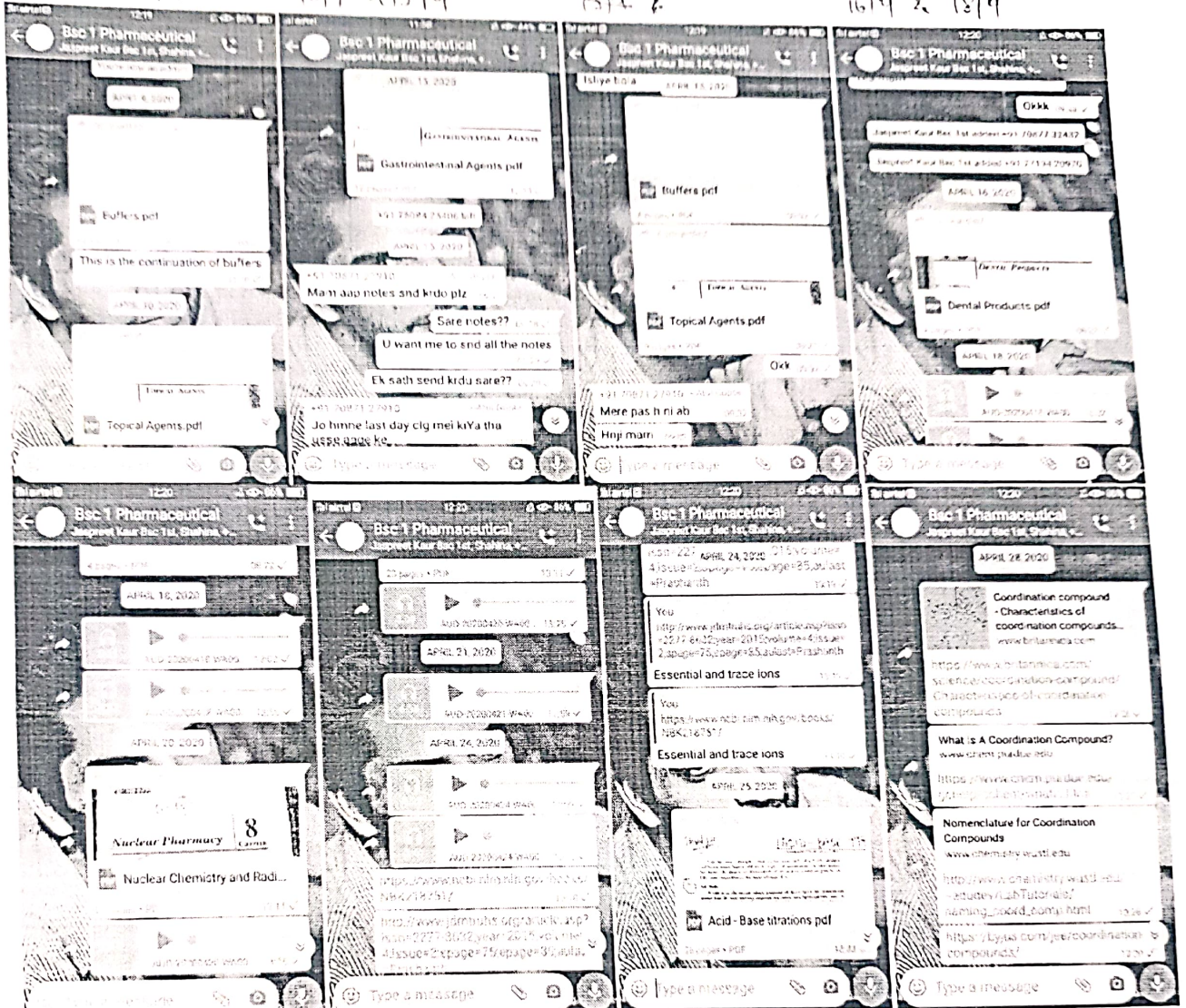
April 2020

9/4 & 10/4

13/4 & 15/4

15/4 &

16/4 & 18/4

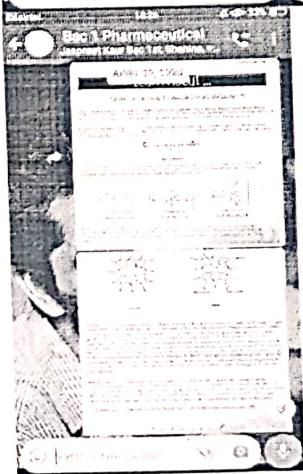


20/4

21/4 & 24/4

25/4

28/4



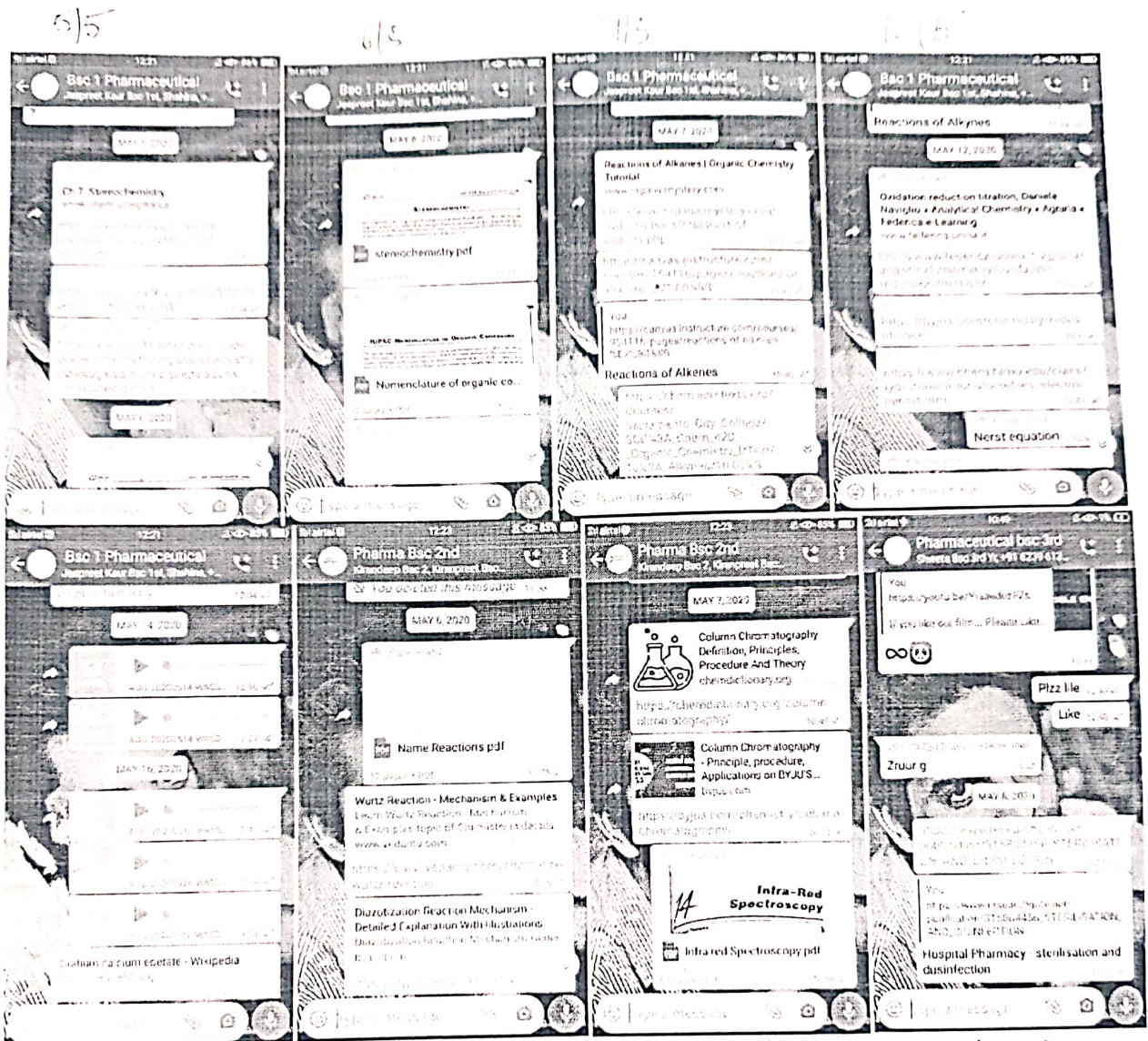
29/4

(Indrag)

For original
Harjeet Arora

Principal
SMHS Govt. College
Sanibzada Ajit Singh

May 2020



(In charge)

Harjeet Anjial
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar