

# syllabus

- To prepare liquid soap
- To prepare white and black phenyl
- To prepare dish washing powder
- To prepare detergent powder and cake
- To prepare bath soap by semi hot process
- To determine the total alkali present in synthesize detergent and its comparison with commercial detergent
- To detect the presence of adulteration and hazards in sample of chilli powder, turmeric powder. sugar, fat, ice cream and butter etc.



## To join contact:

·Sri. Satyanarayana Joshi  
(Department of chemistry)

·Sri. Shankaragouda  
(Department of chemistry)

*Head, Dept. of Chemistry*  
**L.V.D. College, RAICHUR.**

# outcomes

An undergraduate degree in chemistry/Industrial chemistry/Biology opens a whole host of opportunities in fields. A background in this course provides good training for student interested in careers in small scale manufacturing some domestic products. This course is very helpful to students in feature. After this course, the students are able to synthesize various domestic items which is very useful in daily lives of human and also provides critical thinking skills and confident important for his own small scale manufacturing unit. This course is much more interesting for both study and as well as practice. The course is very beneficiary for student to determine adulteration in food materials and methods to test because it affects all of us. From this course, student can learn how water hardness affects cleaning action of soap and detergents. Also the adverse effects of some ingredients in cosmetics/Ice cream etc. The small scale manufacturing unit can be establishing to sell their products to customers. Student can also learned how to calculate costing and sale price of synthesized material.

*Principal*  
**PRINCIPAL**  
**Laxmi Venkatesh Desai College,**  
**RAICHUR.**



Taranath Shikshana Samsthe  
**Laxmi Venkatesh Desai College**  
**Raichur**

Re-Accredited by NACC with 'B' grade

**Department of Chemistry.**  
**2021**

Offers course on

"Manufacturing of  
domestic items "



**Taranath Shikshana Samsthe**  
**Laxmi Venkatesh Desai College, Raichur**  
Affiliated to Gulbarga University, Kalaburagi & Re-accredited by NAAC with B Grade



**Index for Add-On Course**  
**Title : Manufacturing of Domestic items**  
**Academic year : 2020 - 2021**

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1

Taranath Shikshana Samsthe

**LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.**

(Affiliated to Raichur University, Raichuri. Re-Accredited by NAAC with "B" Grade)

**Dr.Venkatesh B. Devaru, M.Sc.,Ph.D.,MBA.**  
**PRINCIPAL**

Office of the Principal  
Ph:( 08532)-240286, 240707  
Fax:+918532 240707  
e-mail: [lvdrccr@gmail.com](mailto:lvdrccr@gmail.com)  
Website: [www.lvdcollege.com](http://www.lvdcollege.com)


Date: 20-12-2020

**TO WHOMEVER IT MAY CONCERN**

This is to certify that, the college has introduced the Add\_On course on, **"Manufacturing of Domestic items "** with the duration of 30 hours introduced in 2020-21. The said programme is apart from the existing course curriculum.

  
Head of the Department

**Head, Dept. of Chemistry**  
**L.V.D. College, RAICHUR.**

  
Principal  
**PRINCIPAL**  
Laxmi Venkatesh Desai College,  
RAICHUR.



Date: 10-10-2020

To  
The Principal,  
LVD College, Raichur.

From  
HoD,  
Chemistry Department.

Respected Sir,

Sub: Permission to start an Add\_On course

With respect to the above cited subject I, the undersigned request you to grant permission to start an Add-on course titled "Manufacturing of Domestic items" to undergraduate students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

*[Signature]*  
Yours Faithfully,

Head, Dept. of Chemistry  
L.V.D. College, RAICHUR.

*Permitted*

*[Signature]*  
PRINCIPAL  
L.V.D. College, RAICHUR-03.  
14/10/2020

Taranatha Shikshana Samsthe  
**Laxmi Venkatesh Desai College, Raichur**  
(Affiliated to Raichur University Raichur, Reaccredited with "B"grade)

**Dr. Venkatesh B Devaru**  
MSc., PhD., MBA  
Principal


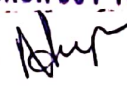
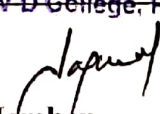
office of the principal  
Ph:(08532) - 240286,240707  
Fax: +918532 240707  
email: [lvdrer@gmail.com](mailto:lvdrer@gmail.com)  
website: [www.lvdcollege.com](http://www.lvdcollege.com)

Date: 22-10-2020

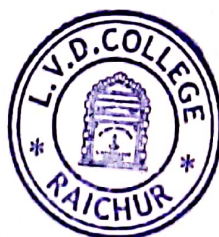
**ORDER Sub: Meeting of Board of Studies members**

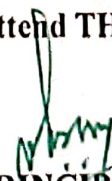
A meeting of the following BOS constituted is hereby convened on 22-10-2020at 11:00 AM in the Department of Chemistry, LVD College, Raichur

**BOARD OF APPOINTMENT OF BOS MEMBERS FOR ADD-ON COURSE**

1)	Smt. Pushpa Assistant Professor Department of Chemistry GFGC, Raichur	 Chairman <b>PRINCIPAL</b> Govt. First Grade College For Womens RAICHUR-584 101
2)	DR. Narayanachr Associate Professor PG Coordinator Department of Chemistry L V D College, Raichur	 Member Department of Chemistry L V D College, RAICHUR - 584 103
3)	Dr. Jayateertha N.S Department of Chemistry LVD College, Raichur	 Member Head, Dept. of Chemistry L.V.D. College, RAICHUR

The Chairman and the members are requested to make it convenient to attend THE BOS Meeting



  
**PRINCIPAL**  
**PRINCIPAL**  
L.V.D. College, RAICHUR

④  
Date: 26-10-2020

To  
The Principal,  
LVD College,  
Raichur.

Respected Sir,

**Sub: Acceptance to be the chairman of BOS.**

with reference to the above-cited subject I Smt. Pushpa, Assistant Professor, Department of Chemistry GFGC, Raichur received your letter of request to be a Chairman of BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your request as a BOS Chairman.

Thanking You,

Yours Sincerely



PRINCIPAL

Govt. First Grade College For Womens  
**RAICHUR-584 101**



# LaxmiVenkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

## Department of Chemistry

### Notice

All the B.Sc V Semester students are here by informed to join and get benefit of the Add-on course titled "Manufacturing of Domestic items" starting from

**20<sup>th</sup> December, 2020 at 8 to 9 am**

This course enables you to create awareness about the Industrial materials and their uses in daily life., hence it is most useful to the students in future

*[Signature]*  
Signature of HoD

Head, Dept. of Chemistry  
L.V.D. College, RAICHUR.

*[Signature]*  
B. SC V sem

*[Signature]*  
L.V.D. COLLEGE RAICHUR-03

*[Signature]*  
Bsc V sem.

*[Signature]*

*[Signature]*

*[Signature]*  
Bsc Isem.



(6)

**Taranatha Shikshanma Samsthe**  
**L V D College, Raichur**  
**Department of Chemistry**

**Add-on Certificate Courses Course Title : MANUFACTURING OF DOMESTIC ITEMS**

**Coordinator : Sri Sathyanarayana Joshi and Sri Shankaragoud**

**Duration : 30 Hours**

**(Theory & Practical) Content :**

**Practical part-A**

1) To prepare liquid soap (2) To prepare white and black phenyl (3) To prepare dish washing powder (4) To prepare detergent powder and cake (5) To prepare bath soap by semi hot process (6) To prepare cold cream (7) To prepare potash Alum (8) To prepare various ink and saving cream (9) To prepare Hand sanitizer hydro alcoholic Gel formulation (10) To determine the total alkali present in synthesized detergent and its comparison with commercial detergent (11) Qualitative tests for oils and fats. (12) To detect the presence of adulteration and hazards in sample of chilli powder, turmeric powder, sugar, fat, ice cream and butter etc.

**Theory part-B**

(1) Principle of action of detergent.

(2) Chemistry and food adulteration

(3) Food and adulteration and hazards with spot tests

**Outcomes of the course :** An undergraduate degree in chemistry/Industrial chemistry/Biology opens a whole host of opportunities in fields. A background in this course provides good training for student interested in careers in small scale manufacturing some domestic products. This course is very helpful to students in feature. After this course, the students are able to synthesize various domestic items which is very useful in daily lives of human and also provides critical thinking skills and confident important for his own small scale manufacturing unit. This course is much more interesting for both study and as well as practice. The course is very beneficiary for student to determine adulteration in food materials and methods to test because it affects all of us. From this course, student can learn how water hardness affects cleaning action of soap and detergents. Also the adverse effects of some ingredients in cosmetics/ice cream etc. The small scale manufacturing unit can be establishing to sell their products to customers. Student can also learned how to calculate costing and sale price of synthesized material

**Reference :**

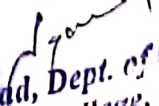
(1) Chemical Technology by C.C. Maheta, Rashikbhai Suthar, J.B. Patel and C.T. Brahmbhat. B. S. Shah Publication, Ahmedabad.

(2) Practical Chemistry by N. K. Verma, B.K. Vermani and K.K. Rehani. Laxmi Publication (p) Ltd, New Delhi.

(3) Synthetic organic chemistry by Gurdeep R. Chatwal. Himalaya Publishing House.

(4) Adulteration and its side effect in food by Dr. Bhavna Chauhan, Yogesh Vadvala et al. Food and nutrition and chemistry department of S.M. Patel college of home scie

  
**PRINCIPAL**  
**L.V.D. College, RAICHUR-03.**

  
**Head, Dept. of Chemistry**  
**L.V.D. College, RAICHUR.**





Taranath Shikshana Samsthe

# LAXMI VENKATESH DESAI COLLEGE, RAICHUR

Time Table with effect from ~~20~~ 12-2020 Class B.Sc V<sup>th</sup> Sem Department CHEMISTRY Section V<sup>th</sup> Sem Room No. FF3

Time → Days ↓	8-9 AM,								
Mon	Chemistry Add on Course.								
Tue	-do-								
Wed	-do-								
Thu	-do-								
Fri	-do-								
Sat	-do-								

Head of Department  
Head, Dept. of Chemistry  
L.V.D. College, RAICHUR.

Name of the Staff : Sri. Satyanarayana Joshi & Sri. Shankaragouda

Principal  
Laxmi Venkatesh Desai College,  
RAICHUR.

# Laxmi Venkatesh Desai College Raichur

Affiliated to Gulbarga University, Kalaburgi & Re-Accredited by NAAC with B Grade

## Attendance Sheet

		Department of Chemistry																																
Class: B.Sc. V Semester		Course title: Manufacturing of domestic Items										Faculty Name: Sri Satyanarayana Jeshi																						
Sl.No	Register No	Name of the Student	21	22	23	24	25	26	28	29	30	31	1	2	4	5	6	7	8	9	11	12	13	14	15	16	18	19	20	21	22	23	Total	Signature of Student
			12	12	12	12	12	12	12	12	12	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
			20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
			1	2	3	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		
1	1953370	Shivananda	P	P	P	A	A	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P	28	<i>[Signature]</i>		
2	1953374	Guruprasad	P	P	P	P	P	A	A	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	P	24	<i>[Signature]</i>		
3	1953121	Kavya	A	P	P	P	P	A	P	A	A	P	A	P	P	P	A	A	A	P	P	P	P	P	P	A	P	P	P	21	<i>[Signature]</i>			
4	1953141	Raghavendra	P	P	A	P	A	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	26	<i>[Signature]</i>		
5	1953157	Hemavathi	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29	<i>[Signature]</i>		
6	1953190	Virupakshappa	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	27	<i>[Signature]</i>		
7	1953262	Ashwini	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28	<i>[Signature]</i>		
8	1953300	S.Sanjana	A	P	P	P	A	P	P	P	A	A	P	P	P	P	A	P	P	A	A	A	P	P	A	P	P	A	P	P	20	<i>[Signature]</i>		
9	1953307	Manisha	P	P	P	A	P	A	P	P	A	P	P	P	A	A	A	A	A	A	A	A	A	P	P	P	P	P	A	P	18	<i>[Signature]</i>		
10	1953319	Chaitra	A	P	P	P	P	A	A	A	P	P	A	P	P	A	A	A	P	P	P	P	A	P	A	P	A	P	P	18	<i>[Signature]</i>			
11	1953387	Sumalatha.S	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28	<i>[Signature]</i>		
12	1953393	M. Deepa	A	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	25	<i>[Signature]</i>		
13	1953398	Parimala	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	A	A	P	P	P	P	P	A	P	A	P	P	24	<i>[Signature]</i>		
14	1953409	Ashwini	A	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	P	P	23	<i>[Signature]</i>		
15	1953411	Venkatesh	P	A	P	P	A	P	A	A	A	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	A	A	20	<i>[Signature]</i>		

Signature of Faculty  
*[Signature]*

Signature of HOD  
Head, Dept. of Chemistry  
L.V.D. College, RAICHUR.

Signature of Principal  
PRINCIPAL  
L.V.D. College, RAICHUR-03.

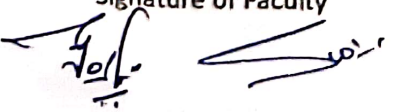
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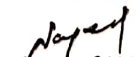
# Laxmi Venkatesh Desai College Raichur

Affiliated to Gulbarga University, Kalaburgi & Re-Accredited by NAAC with B Grade

## Attendance Sheet

Class: B.Sc. V Semester		Department of Chemistry																		Sri. Satyanarayana Joshi &															
Sl.No	Register No	Name of the Student	Course title: Manufacturing of domestic Items																		Faculty Name: Sri. Shankaragoud.														
			21	22	23	24	25	26	28	29	30	31	1	2	4	5	6	7	8	9	11	12	13	14	15	16	18	19	20	21	22	23	Total	Signature of Student	
			12	12	12	12	12	12	12	12	12	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Present		
			20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21				
16	1953385	Pooja	P	A	P	P	P	P	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	26	Pooja		
17	1953386	Sanjevak	P	A	P	P	P	A	P	A	A	A	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	19	Sanjevak		
18	1953388	Eden.D.	P	P	A	A	P	A	A	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	A	P	A	P	A	P	21	Eden		
19	1953397	B. Shamma	A	P	P	P	A	P	P	P	P	P	P	P	A	A	P	A	A	A	P	P	P	P	P	A	P	P	P	A	P	20	B. Shamma		
20	1953403	Kenchappa	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	27	Kenchappa		
21	1953413	H. Amaresh	A	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	27	Amaresh		
22	1953381	Raju	P	P	P	P	P	P	P	A	A	A	P	A	P	A	A	P	A	A	A	P	P	P	A	A	A	A	A	P	A	P	15	Raju	
23	1953405	Veeresha.B	P	P	P	P	A	A	P	P	A	A	P	P	A	P	P	P	A	A	P	P	P	P	P	A	A	A	A	A	P	A	P	18	Veeresha
24	1953420	Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	A	P	A	P	A	P	29	Ashish
25	1953423	Sushma	P	P	P	P	A	A	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	A	A	A	P	A	P	A	P	20	Sushma
26	1953426	Kavitha	P	A	P	P	A	P	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	A	A	P	P	P	P	P	23	Kavitha	
27	1953430	Sumedha	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	26	Sumedha	
28	1953433	G. Soumya	P	P	P	A	A	P	P	A	A	A	P	P	A	A	P	A	A	A	P	P	P	P	P	A	A	A	A	A	P	A	P	14	Soumya
29	1953439	Anil Kumar	P	P	P	P	A	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	25	Anil Kumar
30	1953446	Veena	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	27	Veena

Signature of Faculty  


Signature of HOD  
  
 Head, Dept. of Chemistry  
 L.V.D. College, RAICHUR.

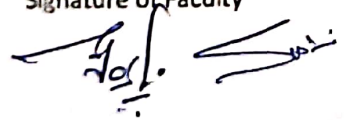
Signature of Principal  
  
 PRINCIPAL  
 L.V.D. College, RAICHUR-03.

# Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburgi & Re-Accredited by NAAC with B Grade

## Attendance Sheet

		Department of Chemistry																												Sri. Satyanarayana Joshi &				
Class: B.Sc. V Semester		Course title: Manufacturing of domestic Items														Faculty Name: Sri. Shankaragoud.												Total	Signature of Student					
Sl.No	Register No	Name of the Student	21	22	23	24	25	26	28	29	30	31	1	2	4	5	6	7	8	9	11	12	13	14	15	16	18	19	20	21	22	23	Total Present	
			12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21	12/21		
31	1953444	Meghana.M	A	A	P	A	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	25		Meghana
32	1953449	Govind	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28		Govind
33	1953456	Babu	P	A	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	26		Babu	
34	1953458	Sachin.Y	P	P	A	P	P	A	P	P	P	A	A	A	A	A	P	P	P	P	P	A	A	P	A	A	P	P	A	P	17		Sachin	
35	1953454	Narash	A	P	P	P	A	P	P	P	P	A	A	A	P	P	P	P	P	P	A	P	P	A	P	A	P	P	P	P	P	29		Narash
36	1953440	Sandhya	P	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	27		Sandhya
37	1953504	Abdul.K	P	P	P	P	A	A	P	A	A	A	P	P	P	P	P	P	P	P	P	A	P	P	A	P	A	A	A	P	A	19		Abdul
38	1953489	D.H.Meraj	P	P	P	P	A	A	P	P	P	A	A	A	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	A	20		Meraj
39	1953480	K.Tanuja.	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29		Tanuja
40	1953472	Suraj	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28		Suraj

Signature of Faculty  


Signature of HOD  
 Head, Dept. of Chemistry  
 L.V.D. College, RAICHUR.

Signature of Principal  
**PRINCIPAL**  
 L.V.D. College, RAICHUR-03.

**Laxmi Venkatesh Desai College, Raichur**  
Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

**Department of Chemistry**  
**Report of Add on course**

**Title of the Add on course :** Manufacturing of Domestic items

**Duration :** 30 Hours

**Started on :** 20-12-2020

**Completed on :** 23-1-2021

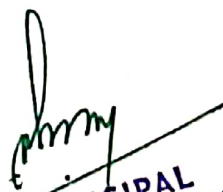
**Name of the faculty :** Sri. Satyanarayana Joshi & Sri. Shankaragouda

**Total No. of students admitted :** 40

**Total No. of classes taken :** 30 Classes .

**Total No. of students benefited :** 40

**Learning outcomes :** Students will be aware of the industrial materials and their uses in daily life.

  
**PRINCIPAL**  
L.V.D. College, RAICHUR-03.

X





Taranath Shikshana Samsthe

# LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)

## Certificate

This is to Certify that ~~Miss.~~ / Mr. **Sanjeev. K**  
 of **B.SC V Semester** has completed the Certificate Course in  
**Manufacturing of domestic items**  
 Conducted by the Department of **Chemistry** from  
**20-12-20** to **23-1-2021**

*[Signature]*  
 Head of the Department  
 Dept. of Chemistry  
 L.V.D. College, RAICHUR



*[Signature]*  
 PRINCIPAL  
 L.V.D. College RAICHUR-03  
 Principal

Taranath Shikshana Samsthe's  
**LAXMI VENKATESH DESAI COLLEGE, RAICHUR**  
**ADD ON COURSE, INTERNAL ASSESSMENT**  
**TOPIC – MANUFACTURING OF DOMESTIC ITEMS**  
**BSC V SEMESTER – 2020**

Time : 8:00 am to 9:00 am.

Date : 30/12/2020

Max.Marks : 20M

Answer any 10 of the following questions : [ 10 × 2 = 20M ]

1. Write the spot test for the detection of adulterant in chilli powder and turmeric powder.
2. Write the spot test for the detection of adulterant in ice cream and butter.
3. What are medicated soaps ?
4. How does toilet soap differ from washing soap?
5. What are the main ingredients required to prepare potash alum.?
6. What are ABS & LAS detergents?
7. What are the main ingredients in a toothpaste?
8. What are the main constituents of face cream?
9. What are the main constituents of saving cream?
10. What is a surfactant ?
11. Mention the main ingredients required to prepare hand sanitizer.
12. What is the main difference between synthetic detergent and commercial detergent?





## INTERNAL ASSESSMENT

19  
20

INTERNAL TEST : 30-12-2020

DATE OF SECOND INTERNAL TEST :

Name of the Student

H. Amaresh

Father's Name

Register Number : 1953413

Course : Manufacturing of domestic items

Semester : B.Sc. V Sem.

Subject : Chemistry

Marks Obtained

Sign. of the Student

Sign. of the Room Invigilator

Sign. of the Examiner

1 Ans

a) Chilli powder:-

Any grittiness that may be felt on tapping the sediment at the bottom of glass test tube confirms the presence of brick powder or sand as an adulterant in chilli powder.

b) Turmeric powder:-

Take a teaspoon full of turmeric powder in a test tube. Add few drops of conc. HCl. If there is instant appearance of violet colour which disappears on dilution with water. If the colour persists, presence of Metanil yellow as adulterant in turmeric powder.

3 Ans

Medicated soaps:-

Toilet soaps containing bactericidal ingredients (usually like carbolic acid & its derivatives) are known as medicated soaps. They are used to kill micro-organisms which are exposed parts on body (or) on wounds. For example soaps such as Dettol, Savlon, Neem, Margo, etc.



6 Ans ABS & LAS detergents:-

Polystyrene was commonly used in the synthesis of alkyl benzene sulphonate (ABS) detergents and these detergents are called hard detergents & are non-biodegradable detergents because it contains highly branched chain of carbon.

The side chain of linear alkyl benzene sulphonate (LAS) detergents are derived from straight chain of monoalkanes and are known as soft detergents & these are eco-friendly and undergo degradation. These are biodegradable detergents.

7 Ans Main ingredients of a toothpaste are as follows

1. Precipitated calcium carbonate as Abrasive
2. Castile Soap or sodium dodecyl sulfate (Detergent)
3. Glycerol (glycerin) — Sweetener
4. Gum tragacanth (or) gum Cellulose as base
5. Oil of peppermint (or) peppermint extract) — as a flavouring agent.
6. & Artificial colorants.
7. Water.

8 Ans Lightening Night cream (face cream) formulation as follows

1. Deionized water.
2. Glycerin.
3. Glyceryl caprylate.
4. Xanthan Gum
5. Hydrogenated lecithin (&) C12-16 Alcohols & palmitic acid.
6. Varieties of seed oils & Vitamins.

Butter:-  
add a  
test i  
of crim  
presence  
butter

Ice-C  
in a

7 Ans Th  
1. C  
2.  
3. 100  
4.  
5.

4 Ans  
1

Butter :-

Take about one teaspoonful of melted butter with equal of conc. HCl in a test tube & add a pinch of cane sugar & shake well & test it after 5 minutes if the appearance of crimson colour in lower layer shows the presence of Vanaspate as an adulterant in butter sample.

Ice-Cream :-

Take about a pinch of ice-cream in a test tube add few drops of acetic acid.

9 Ans The main ingredients of saving cream are as follows:-

1. Stearic acid
2. triethanolamine
3. glycerin (or) Glycerol.
4. polyoxyethylene sorbitan monostearate &
5. water.

4 Ans

Toilet Soap

Washing Soap

1) These are the soft Soaps

1) These are the hard Soaps

2) The main ingredients of these Soap are oil & fats & caustic soda (or) caustic potash best quality oils are used for preparation of Toilet Soap

2) The main ingredients of the Soap are Cheap oils (or) fats & caustic soda.

3) They are used on Hairs, on skin, and as antibacterial <del>in</del> Soaps	3) They are used for washing of cotton cloth & to wash other clothes.
4) They are not harmful Soaps	4) These are harmful Soaps

10) Ans The agent which is added to soap that stabilizes the suspension of non-polar substances such as oil & grease in water is called as surface active agent (or) surfactant.

11) Ans The two main ingredient of hand sanitizer. are.

- 1) Ethanol (or) Isopropanol alcohol - 60-95%
- 2) Hydrogen peroxide.
- 3) Glycerine
- 4) Fragrance
- 5) Colourant.

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## Marks list

Department of Chemistry				
Class: B.Sc. V Semester				
Course title: Manufacturing of Domestic items				
Faculty Name: Sri. Satyanarayana Joshi & Sri. Shankaragoud.				
SL.No	Register No	Name of the Student	Marks	Signature of Student
1	1953370	Shivananda.	19	
2	1953374	Guruprasad.	16	
3	1953121	Kavya	17	
4	1953141	Raghavendra	18	
5	1953157	Hemavathi	19	
6	1953190	Vinupakshappa.	17	
7	1953262	Ashwini	18	
8	1953300	S. Sanjana	19	
9	1953307	Manisha.	19	
10	1953319	Chaitra.	18	
11	1953387	Sumalatha. S.	17	
12	1953393	M. Deepa	16	
13	1953398	Parimala.	19	
14	1953409	Ashwini	18	
15	1953411	Venkatesh	17	
16	1953385	Pooja	16	
17	1953386	Sanjeev. K.	16	
18	1953388	Eden. D.	17	
19	1953397	B. Satyamma.	18	
20	1953403	Kanchappa.	19	
21	1953413	H. Amaresh.	19	
22	1953381	Rajee	18	
23	1953405	Veeresh. B.	17	
24	1953420	Ashish.	18	
25	1953423	Sushma.	19	
26	1953426	Kavitha	16	
27	1953430	Sumedha.	19	
28	1953433	G. Soumya.	19	

Signature of Faculty

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Signature of HOD  
Head, Dept. of Chemistry  
L.V.D. College, RAICHUR.

Signature of Principal  
Principal  
Laxmi Venkatesh Desai College,  
RAICHUR.

