#### Details of activities conducted for students for Future Employent/Competetive Examinations&Higher Education

#### Ramesh Banothu Department of Chemistry Govt. Degree College Dubbak

#### **Objective:** Conducting awareness programs

Conducted sessions and provided materials to students for Future Employent/Competetive Examinations&Higher Education(P.G.,B.Ed. Entrance Examinations)

**Outcome:** Significant Result of the following students scored good marks&ranks and got P.G./B.Ed. Seats in reputed Colleges in the Academic Year of 2021-2022.

SNo.	Ht.No.	Name Of The Student	Group	Got Ranks in	
1	602318445005	M SHIVAPRASAD	B.Sc.BZC	M.Sc. Chemistry	
<u>6</u>					

		GOVERNMENT DEGREE ( Department Action Plan Department Name:	1 2021-2022 A.Y.	BBAK	
SNo	Agree Goal	Plan	Time Line	Resource	
1	Completion of Syllabus	Planned to Completion of Syllabus as per the OU Almanac for Even And Odd Semesters	2021-2022 AY	Department Concentration	
2	National Science Day	planned to Celebrate Science Day	2021-2022 AY Yearly	Departn Chen	
3	Quizz,Seminars, Group Discussions and Assignments	planned to Conduct Quizz,Seminars, Group Discussion	2021-2022 AY	Dep	
4	Internal and Lab Exams	planned to Conduct Internal and Lab Examinations	2021-2022 AY	Depart. Chemistry	
	Cartificate Course	planned to Conduct Certificate Course on Softwart extraction and Chromotography techniques	2021-2022 AY	Department Of Chemistry	Con
		Plasmad to motivate the students for Study projects in Water purification techniques	2021-2022 AY For Final Year Students	Department Of Chemistry	Conducted
				With the Experienced Faculty	Conducted

Charles-



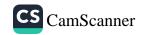


# MENT DEGREE COLLEGE, DUBBAK

# Proforma for Remedial Coaching

						Acade	emic Year	
		Name of the Lecturer who has Taken Class	Names of the Students Attended	Marks Before Remedial Classes	No. of classes taken by Lecturer	No. of classes Attended by Student	% of Improveme nt	Remarks
		B.Karneth	I-Sem 7-Members	Fail	8hr	6	60%	Nil
		3. Kanesh	III-Sem 3-Members	Fail	8hr	3	75%	Nil
		S Karook	V-Sem 2-Members	Fail	8hr	2	50%	Nil
			_					- 11

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Government Degree College -DUBBAK								
	Chemistry Assignment 2021-2022 A.Y. Lecturer Name: B Ramesh							
S.No.	Student Name	Ht.No.	Group	Year	Grade			
1	Ch. Akhila	602319445005	BZC	ш	А			
2	D Ramya	602319445008	BZC	ш	А			
3	E Anusha	602319445009	BZC		А			
4	E Radhika	602319445011	BZC		А			
5	M Supraja	602319445014	BZC	Ш	А			
6	N Sravanthi	602319445015	BZC		А			
7	P Sandhya	602319445016	BZC	ш	А			
8	Р Теја	602319445017	BZC	Ш	А			
9	P Rajeshwari	602319445018	BZC	Ш	А			
10	B Revathi	602320445002	BZC	Ш	А			
11	Ch Navya	602320445003	BZC	П	А			
12	J Bhargavi	602320445005	BZC	Ш	В			
13	K Anitha	602320445007	BZC	II	А			
14	M Kaveri	602320445008	BZC	Ш	А			
15	N Shravani	602320445009	BZC	II	В			
16	N Srihari	602320445010	BZC	II	А			
17	P Akanksha	602320445011	BZC	II	А			
18	V Koumudi	602320445012	BZC	II	А			
19	V Srinidhi	602320445013	BZC	II	А			
20	S Teja	602319445020	BZC	II	А			

21	M Akanksha	602320482001	BCCs	=	A
22	B Shravani	602321445001	BZC	Ι	А
23	B Rohith Reddy	602321445002	BZC	-	b
24	Ch. Raghuram	602321445004	BZC	-	A
25	Ch Varshitha	602321445005	BZC	I	А
26	Ch Nithin	602321445009	BZC	I	В
27	Ch Sravankumar Redo	602321445010	BZC	I	В
28	D Navya	602321445011	BZC	I	В
29	E Navaneetha	602321445013	BZC	I	В
30	K Manasa	602321445018	BZC	I	В
31	M Soundarya	602321445022	BZC	I	А
32	P Byula	602321445026	BZC	I	В
33	P Jyothi	602321445027	BZC	Ι	В
34	P Sanjay	602321445028	BZC	I	А
35	S Kapil	602321445029	BZC	I	В
36	S Navya	602321445030	BZC	I	А
37	S Vijitha	602321445032	BZC	I	А
38	T Shruthi	602321445033	BZC	I	А
39	V Anjali	602321445034	BZC	I	А
40	V Swathi	602321445036	BZC	I	В

	Government Degree College -DUBBAK							
	Chemistry Paper wise & SEM wise Result Analysis 2021-2022 A.Y. Lecturer Name: B Ramesh							
Sno	Name of the Group	Semester	Subject Name	No. of students Appeared	No. of students Passed	Total pass %		
1	BZC	I	Chemistry	29	3	11%		
2	BZC	Ш	Chemistry	20	6	30%		
3	BZC	Ш	Chemistry	11	8	73%		
4	BZC	IV	Chemistry	12	5	42%		
5	BZC	v	Chemistry	8	7	88%		
6	BZC	VI	Chemistry	9	9	100		
	Т	89	38	43%				

# STUDENT STUDY PROJECT BY B.Sc. III-YEAR STUDENTS

TITLE: STUDY OF ADULTRANTS IN FOOD SUFFS **Introduction**: Adulteration in food is normally present in its most crude form; prohibited either added or partly or wholly substituted. substances are Normally the contamination/adulteration in food is done either for financial gain or due to carelessness and lack in proper hygienic condition of processing, storing, transportation and marketing. This ultimately results that the consumer is either cheated or often become victim of diseases. Such types of adulteration are quite common in developing countries or backward countries. It is equally important for the consumer to know the common adulterants and their effect on health

**THEORY:** The increasing number of food producers and the outstanding amount of import foodstuffs enables the producers to mislead and cheat consumers. To differentiate those who take advantage of legal rules from the ones who commit food adulteration is very difficult. The consciousness of consumers would be crucial. Ignorance and unfair market behavior may endanger consumer health and misleading can lead to poisoning. So we need simple screening tests for their detection. In the past few decades, adulteration of food has become one of the serious problems. Consumption of adulterated food causes serious diseases like cancer, diarrhea, asthma, ulcers, etc. Majority of fats, oils and butter are paraffin wax, castor oil and hydrocarbons. Red chilli powder is mixed with brick powder and pepper is mixed with dried papaya seeds. These adulterants can be easily identified by simple chemical tests. Several agencies have been set up by the Government of India to remove adulterants from food stuffs. AGMARK - acronym for agricultural marketing....this organization certifies food products for their quality. Its objective is to promote the Grading and Standardization of agricultural and allied commodities.

#### **EXPERIMENT-1**

#### To detect the presence of adulterants in fat, oil and butter.

**<u>REQUIREMENTS</u>**: Test-tube, acetic anhydride, conc. H2SO4, acetic acid, conc. HNO3. **PROCEDURE**: Common adulterants present in ghee and oil are paraffin wax, hydrocarbons, dyes and argemone oil. These are detected as follows:

(i) Adulteration of paraffin wax and hydrocarbon in vegetable ghee Heat small amount of vegetable ghee with acetic anhydride. Droplets of oil floating on the surface of unused acetic anhydride indicates the presence of wax or hydrocarbons.

- (ii) Adulteration of dyes in fat Heat 1mL of fat with a mixture of 1mL of conc. sulphuric acid and 4mL of acetic acid. Appearance of pink or red colour indicates presence of dye in fat.
- (iii) Adulteration of argemone oil in edible oils to small amount of oil in a test-tube, add few drops of conc. HNO3 and shake. Appearance of red colour in the acid layer indicates presence of argemone oil.

## **EXPERIMENT-2**

To detect the presence of adulterants in sugar

**REQUIREMENTS:** Test-tubes, dil. HCl.

**<u>PROCEDURE</u>**: Sugar is usually contaminated with washing soda and other insoluble substances which are detected as follows:

- Adulteration of various insoluble substances in sugar Take small amount of sugar in a testtube and shake it with little water. Pure sugar dissolves in water but insoluble impurities do not dissolve.
- (ii) Adulteration of chalk powder, washing soda in sugar To small amount of sugar in a testtube, add few drops of dil. HCl. Brisk effervescence of CO2 shows the presence of chalk powder or washing soda in the given sample of sugar.

# **EXPERIMENT-3**

To detect the presence of adulterants in samples of chilli powder, turmeric powder and pepper **REQUIREMENTS:** Test-tubes, conc. HCl, dil. HNO3, KI solution

**PROCEDURE:** Common adulterants present in chilli powder, turmeric powder and pepper are red coloured lead salts, yellow lead salts and dried papaya seeds respectively. They are detected as follows:

(i) Adulteration of red lead salts in chilli powder to a sample of chilli powder, add dil.
HNO3. Filter the solution and add 2 drops of potassium iodide solution to the filtrate.
Yellow ppt. indicates the presence of lead salts in chilli powder.

- (ii) Adulteration of yellow lead salts to turmeric powder To a sample of turmeric powder add conc. HCl. Appearance of magenta colour shows the presence of yellow oxides of lead in turmeric powder.
- (iii) Adulteration of brick powder in red chilli powder Add small amount of given red chilli powder in beaker containing water. Brick powder settles at the bottom while pure chilli powder floats over water.
- (iv) Adulteration of dried papaya seeds in pepper Add small amount of sample of pepper to a beaker containing water and stir with a glass rod. Dried papaya seeds being lighter float over water while pure pepper settles at the bottom.

EXPT.	EXPERIMENT	PROCEDURE	OBSERVATION
NO.			
1	Adulteration of paraffin	Heat small amount of vegetable	Appearance of oil
	wax and hydrocarbon in	ghee with acetic anhydride.	floating on the surface.
	vegetable ghee	Droplets of oil floating on the	
		surface of unused acetic	
		anhydride indicate the presence of	
		wax or hydrocarbon	
2	Adulteration of dyes in	Heat 1mL of fat with a mixture of	Appearance of pink
	fat	1mL of conc. H2SO4 and 4mL of	colour.
		acetic acid.	
3	Adulteration of	To small amount of oil in a test	No red colour observed
	argemone oil in edible	tube, add few drops of conc.	
	oils	HNO3 & shake.	
4	Adulteration of various	Take small amount of sugar in a	Pure sugar dissolves in
	insoluble substances in	test tube and shake it with little	water but insoluble
	sugar	water.	impurities do not
			dissolve.

# **RESULTS:**

5	Adulteration of chalk	To small amount of sugar in a test	No brisk effervescence
	powder, washing soda	tube, add a few drops of dil. HCl.	observed.
	in sugar		
6	Adulteration of yellow	To sample of turmeric powder,	Appearance of
	lead salts to turmeric	add conc. HCl.	magenta colour
	powder		
7	Adulteration of red lead	To a sample of chilli powder, add	No yellow ppt.
	salts in chilli powder	dil. HNO3. Filter the solution and	
		add 2 drops of KI solution to the	
		filtrate.	
8	Adulteration of brick	Add small amount of given red	Brick powder settles at
	powder in chilli powder	chilli powder in a beaker	the bottom while pure
		containing water.	chilli powder floats
			over water.
9	Adulteration of dried	Add small amount of sample of	Dried papaya seeds
	papaya seeds in pepper	pepper to beaker containing water	being lighter float over
		and stir with a glass rod.	water while pure
			pepper settles at the
			bottom.

## **CONCLUSION:**

Selection of wholesome and non-adulterated food is essential for daily life to make sure that such foods do not cause any health hazard. It is not possible to ensure wholesome food only on visual examination when the toxic contaminants are present in ppm level. However, visual examination of the food before purchase makes sure to ensure absence of insects, visual fungus, foreign matters, etc. Therefore, due care taken by the consumer at the time of purchase of food after thoroughly examining can be of great help. Secondly, label declaration on packed food is very important for knowing the ingredients and nutritional value. It also helps in checking the freshness of the food and the period of best before use. The consumer should avoid taking food from an unhygienic place and food being prepared under unhygienic conditions. Such types of food may cause various diseases. Consumption of cut fruits being sold in unhygienic conditions should be avoided. It is always better to buy certified food from reputed shop.

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