CGAS ASSIGNMENT-1

24.		0 1
	Boiled Egg	Boiled Rice & Dad Dad
	per 1 large egg, about sogum	but I cup of cooked nice &
	1 0 00	daal, about 250 grams
	Calories: Approx. 68 Kcal	
	Protein: About 6 grams	Boiled Rice (per 1 cup, about 18gm.
	Fate: Avocumed 5 greams	No.
	- saterated fats: 1. Ggrams	calories: Approx. 205 Keal
	Carbolydrates: < 1 gram	Porotein: About 4 grams
	carbolydrates: <	Fats: > I gram
	cholestorol: Apperon. 186 mg	Carboly decates: about 45 grave
	Vitamens & Minerals:	Vitamins of nunctials -
	- Rich in Vitamina B12, D, A	small amount of vitainin 8, iron, mg.
	& niboflavin	
	- contains minerals like	Boiled Daal (lentil, por 1 cup, about 90 gur
	selensum & phosphonus.	calosces: Apprex 230 gms, Perstein: About 18 gms
		Fats: > 1 gms, carbohydrates: About 40gms
		Vitamine Smineral : Rice in folake, iscon.
		potassium & maganese
	Comparision	
	calories. Boiled vice 4 daal porovier more adaries then	
	single boiled egg.	
	Postern: Boiled egg is a good source of protein, but dad provide mose. Fats: A boiled egg contain more fat, specially saturated fat hun worlded.	
	Fats: A boiled egg contains more fat specially exturated fat his weekded.	
	Combo heldrate, Boiled Mile & date das grave much eigh corbohydrate as	
	Vitania & Minorals: Eggs are suc B12 & D, and	h in coutain vitamins like
	B12 & D, and d	and is such in polate 4 iron.

05

Fève uncommon food ingredient

Local Hame · Gular

English Name. Cluster Fig

Seasonal Use: Typically available in the gummer months Nestricional Values: Rich in dietary fiber, calcium, & iron It also contains autionidants & vitamins like A 4C

Local Name: Kabachuaa

English Name: Not recognized. Seasonal Use: Winter season

Neutrational Values: Generally considered nuteritation nutritions with potential medical proportion but specific nutritional data is scarce.

Barhan Ke flowers (Phoo)

Local Name: Barhan ke Pfpol.

English Name: Lakoocha/Monkey jack flowers Seasonal Use: Typically bloom in the spaing. Nutritional Values: They are believed to have antioxidad properties

4. Kadam ke Phao)

Local Mame: Xadam ke theo!

(right Name: Burflower tree flowers

Nutritional Values: Contains antioxidanti & is used in treditional medicine for it anti-inflammatory

5. Tilkon Leaver

Local Mame: Tilkon ka patta

English Mame: Mot suega recogniseal.

Beasonal Use: Typically used in maining season.

Mutritional Values: It is believed to be good

Source of vitamine & minerals. Good force yes.

Ob. (a) Statement " cooking food in the microwave of destroys its nutowers mutational value" is a muth. Scientific evidence suggests that microwave cooking is actually on of the better methods for personing nutrients in food. Here's why:

O Shouter cooking Time: Microwavery Generally takes

rest time then other methods preducing nutrient

breakdown. If time taken to cook food is more,

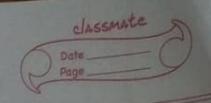
then more nutrients are likely to be lost.

Therefore, quick cooking time for of microwave

helps retain more staming & minerals.

Minimal Water use: More nutrients are presented when we micro wave food, especially without adding water. Boiling for eg. can cause water soughly vitamins like vitamin A to to leach into cooking water, which is often discarded.

Also, microwaves vibrales water molecules, which generale heat and cooks the food. This method does not inherantly destroy nutrients more than other cooking methods.



6. Statement "Refrégerating food des destroys its nutritional value" is a myth. Refrégeration is used to preserve food? neutritional quality.

O slows Down Spoilage: Repregenation reduces
growth of bacturia & other micro-organisms
that causes food spoilage, helping to keep
food fresh & maintain its nutrition
longer than it left at swoom temperature.

Dereserving Mutrients. Although some vitamins
like C can decrease over time, reprigeration
slows this down. Fresh fruits & vegetables keep
their vitamins and minerals better in the
fridge then when left out

Drieventing Oxidation: Représeration 810 ws down the oxidation of faits and oils, which can cause marcidity and reduce nutrient quality. Keeping foods cool helps preserve their nutrients by neducing the made of oxidation.

developing countries.

c. Statement "Generic modification in plants on animals are bad" is complexe topic with both scientific truth and mythe associated withits

Scientific truth

- tough conditions and susist pests, helping to ensure food supply.
- and Superoved Mutarition: Some Com foods, 17ke
 Golden Rece are designed to parovide essential
 nutrients such as vitamin A.
- Descriptional Uses. Generic modifications in animals have led to important medical advances like producing insules.

Concerns.

- a scientists but some people wany about unknown.

 Long term effects.
- O convironmental impact: There are jeans that BM crops could neduce biodevereity on & create herbicide neintant "superweeds".
- a Ethical Issues: Some are concerned about large companies have over GM seeds and potential impacton small farmers.

GM is not simply good on bad but depends on how it's used and managed.

07

The calorific content of food is usually measured using bomb calorimetry. In this method a food sample is placed in the a sealed container called a bomb calorimeter, which is filled with onygen. The sample is then Equited and the heat released during combution is absorbed by surrounding water. By measuring the temperature change in the water, the energy e content of the food is calculated. This method provides an accurate measurement of the food is calculated.

- 08. Here ave 8 specific technologies/products
 that could emerge from the application of
 Computational Gastronomy paradigm:
 - D Flavour Pairing Algorithms: Advanced AI-driven algorithms that identify the chemical composition of ingredients, new ideas to suggest novel and harmoneous flavour parings that will enhance culinary creativity and innovations.
 - Delivitional Optimistal Optimization software-Tooks to customist meals of individual dietary needs and preferences (temporature, time etc) based on real-time monitoring data to ensure good results every time.

- 3 Food Waste Reduction Platform System that analyses purchasing and consumption patterns to suggest ways to suduce waste such as recipe suggestions for deftover ingredients on best storage methods.
 - Wirtual cooking Assestants Al-powered assistants
 that provide instant guidance during cooking.
 Offering tips, changes and adjustments
 based on user feedback and prefixe
 preferences.
 - 5 Smort Cooking Application Appliances Kitchen appliances that supposts IoT automatically adjustable cooking parameters (temp., time sto.) based on neal-time monitoring data to ensure good results every time.
 - D Pousonalized Recipe Generators App that generated creates recipes based on personal taste profiles, dietary restrictions and available ingredients using machine learning to improve suggestions over time.
- D Culinary Data Visualization Tools Platforms

 that visualize complex culinary data such
 as playor profiles and ingradient interaction
 to aid chebs and food scientists in

 understanding and imp innovating new dishes

 B sensory experience Simulators Devices that simulate
 taste and anoma experiences using digital enterfaces
 allowing users to taste dishes visually before preparing them.