of som values are approximations for standard 100g wight propil.		
Nutritional Component	Boiled Egg (100g)	Boiled Ria and Daal (100g)
Protein	• ~13g of high quality complete protein, nich in all essential amino acids, especially levine, lysine and methionine.	- 79 of incomplete protein , together providing most balanced amino acid profile when consumed togethe. (lentile high in lysine, rice in methionine).
· Amino Acid Pogili	Boiled Egg contains a complete amino acid profit with all yential amino acid profit with all yential amino acids present in sufficient amounts for human needs. This includes higher levels of leucini (important for much for much synthesis) and methionin	each other but one not complete proteins on this own. Together, they balance the lysine deficiency in rice and the methioning a more complete amino
· Cholestrol	· High cholytral, though secret studies suggest dietary cholytral may n significantly affect blood cholestral in most people	et naturally cholestel tro, making them suitable
Vitamins	richin vitamins, especial vitamins of vitamins of vitamins of vitamins A and E. These vitamins expost theory production &	in B-vitamine like folate, thiamine, and hiscin, but lack vitamin B12,

tres. @ Common Nami: Kokum > English Name: Garcinia Indica > Seasonal Use: Typically used in Sumner, Rnown for its cooling properties. Nutritional value: Rich in antioxidants, contains hydroxycitric acid (MCA), low in calories, and will digustion. (2) Common Name: Gondh (11/4) > English Name: Edible Gum Seasonal Vel: Predominantly used in the winter to make laddes and snurts that provide warth and energy.

Nutritional value: High in Fiber, a good source of calcium, and helps in strangthening bones and boosting energy. 3 Common Name: Jungli Jalebi > English Name: Marila Tamorina > leasonal USI: Available in late winter and spring, used in chatheys and tangy drinks. (4) Common Name: Ramdona/Chaulai > English Name: Amoranth Suds > Seasonal Use : Primarily Used during fasting seasons and lestivals. Ly Nutritional value: tigh in protein, calcium, magnesium, and fron. It is gluten-free and helps in Boosting imments

2

@ Common Want : Bhut Jolokia

· English Name : Ghost Pepper

· seasonal use: Growth in the summer mashs, used in spicy pickles and chutneys.

· Nutritional value: High in capasian, which boosts metabolism, and sich in vitamins A and C.

@ Cooking food in microwave dutroys its 'nutritional Walue'. AND > Microwave cooking is actually one of the least forms of cooking to domoge nutrients, because of the shorter cooking time. For instance, roosting meet in on oven is more likely to result in nutrient loss compared to cooping it in microwave. Similarly, boiling regetables can cause more nutrients to escope into the mater, whereas microwoving os. baking them helps preserve their nutritional content. In this sense, microwave cooking can be not only quicker but also nutritionally beneficial in some case. · 中華華

> water - Saluble vitamine like vitamine and B-vitaming are more likely to be retained in microwaved food sing they are his exposed to heat an water, where nutrients can leach and.

-> the quick cooking prous minimize nutsit loss, moking it a nutritionally advantageous method.

(b) Refrigerating good destroys its 'nutritional value'.

Ans B. Refrigerating food doesnot destroy its nutritional value; instead, it helps to preserve nutrients by slowing down the Spoilage process and bacterial growth. While there may be minimal nutrient loss over time, porticularly with water-soluble vitamins like vitamin C, the overall nutritional content remains largely infact.

-> Refrigeration is essential for maintaining the freshness and quality of perishable foods, preventing rapid nutrient degradation that occurs at room temperature. Thus, refrigeration preserves, rather than distroys, nutritional value.

@ Genetic modification in plants or animals on bad!. are inherently "bad" lacks a solid scientific basis. Genetic modification CAM) is a tool that can offer both benefits and potential risks, depending on how it's used. Scientifically, GM technology has been employed to enhance crop yields, improve resistance to pasts and diseases, and even increase the nutritional content of soods 12.9, golden sice rich in vitamin A). However, concern exists about unintended inviscenmental impacts, such as the potential too cross breeding between GM plants and wild species or the development of pesticide-resistant pests. Additionally, some worry about long-term health effects, though current research doesnot provide conclusion wider a that GM Joads are hornful to humand.

> throware, GMS themselves are neither inherently "good" of "bad".

- Bomb Calorimetry: This technique is used to measure the energy content of good by calculating the heat released during combustion.
 - 2 Sample Placement: A carefully weighted food sample is placed in a strong, lealed container called a "bomb".
 - 3: Oxygen Envisonment: The bomb is filled with pure oxygen, allowing complete combustion of food sample.
 - Water Bath Setup: The bomb is submirged in a known quantity of water within a calorimeter, which measures heat changes.
 - So Combustion Process: the food sample is ignited electrically, causing it to burn completely in oxygen sich environment.
- 6: Keat Transfer: The heat from combustion is transferred to surroundings water, raising its temperature.
- I Temperature measurement: The incorease in water temperature is recorded, which corresponds to the energy released by the Good.
- g. Caloric Catalotion: the amount of heat absorbed by the water is used to calculate the total energy control of the food in calories or kilocolories (Kral).

- Analyze ingredients combinations to practict the flavor profile of new racipes, helping chefs create novel disher with desired taste profiles.
- Automated Recipe Optimization Tools: Al-driven platformy that optimize racipes for specific dietery needs (e.g., low sodium, light protein) by adjusting ingradient quantities and cooking without while maintaining teste and texture.
- 3 Ingradient substitution AI: machine learning systems that suggests suitable ingradient substitutions based on flavor compatibility, nutritional content, and availability, allowing for fluxible and adaptable cooking.
- (4) Nutritional Analysis Apps : Apps that provide and time nutritional brunkdown of acipus by scanning ingradient lists and column macro and micronutrient contact using computational models.
- Destroy Assistants: Al-powerd vistual assistants that guide user through cooking processes with stop-by-stop instruction and wal-time adjustment based on user judback and ingradient performance.
- @ Flovor Compound moffing Tools: Software that mops and visualizes the molecular compounds responsible for flovor in different foods, aiding in the creation of new flovor combinations

- Automated Food Pairing Mockins on Devices that uses computational Gustromy to automatically combine ingradients based on their chemical and sensory properties, coenting Unique and balanced slavor prefiles.
- (8) Clessonalized Recipe Generators: At systemy that create custom recipes tailored to individual taste preferences, distory my trictions, and nutritional goals by analyzing user data and ingredient interactions.