NUTRITIONAL SIGNIFICANCE OF FRUIT (20)

<u>Nutrient</u>		Nutritional Content		Significance in the Diet
Protein	0	There are <u>trace amounts</u> of protein present in fruit, it is <u>low</u>		uit should be supplemented with ods high in protein e.g., fresh fruit
		biological value protein, even		ved with yogurt.
		though essential amino acids are		· -
		present, fruit tends to be low in		
		lysine, methionine		
Lipids	0	Fruit is fat free however there	Fru	uit is ideal for low kCal diets as it is
		are exceptions, <u>avocados</u> are	'nc	ot fattening' (avoid too many
		about 80% fat, but they contain	avo	ocados). It is good for those trying
	,	71% MUFA, 13% PUFA and 16%	to	reduce LDL (low density
		SFA.	lip	oprotein) i.e., Bad Cholesterol.
Carbohydrates	0	There is a high % of carbohydrates in fruit. Sugar - glucose (all fruit), cherries and melon are high in	0	and level out sugar in the blood e.g., apples, peaches, oranges, strawberries.
	0	fructose. Starch – unripe fruit (green bananas)	0	However, diabetics should avoid mango, pineapple, watermelon as they are high in fructose.
	0	<u>Cellulose</u> - (outer skins) e.g. apple, pear, plum. <u>Pectin</u> - high in blackcurrants & apples.	0	Fibre helps prevent constipation, (eat fruit with skin on where possible).
Minerals	-	Iron (non-haem iron)	0	Iron for red blood cell formation
		strawberries, raisins & avocados	0	Calcium for calcification
		are high in iron.		(children/teens)
	-	Calcium (Mangos / oranges)	0	Magnesium for protein synthesis,
	-	Magnesium (bananas,		blood pressure regulation.
		avocados)		

GRINDS 360°

	- <u>Potassium</u> (grapefruit, dates)	 Potassium helps maintain normal levels of fluid outside of cells
Vitamins	avocados Vitamin C - Kiwis, strawberries, oranges, black currants. Beta carotene (pro vitamin A) - mangoes, strawberries, apricots, 	 Vitmain A/C/E antioxidants, ideally eat 5 - 7 servings a day to reduce oxidative stress on cells, reducing risk of cancer. Vitamin C is good for immune system, healthy skin, bones. folate needed to make RBC with iron, B₆ & B₁₂.

NUTRITIVE/ DIETETIC VALUE OF FRUIT (2012) (20 marks)

Carbohydrates (N):

- The carbohydrate content of fruit varies depending on the type of fruit but generally there is a high % of carbohydrates in fruit.
- It is present in a variety of forms:

<u>Sugar</u>: Glucose (monosaccharide) is in all fruit – melons, papaya and cherries are high in fructose.

Starch: Mainly present in unripe fruit e.g., green bananas

<u>Fibre</u>: Found in the outer skins of pears, apples, also in the pulp of fruit e.g., oranges.

<u>**Pectin**</u>: Ripe fruit e.g., blackcurrants, cooking apples.

Minerals: (N)

- Pomegranates and black currants are rich sources of non haem iron (ferric iron).
- <u>Calcium</u> is found in oranges, mangoes, and figs.
- Magnesium bananas, avocados, raspberries.
- Potassium grapefruit, dates, guava.

Vitamins: (N)

- <u>Folate</u> is naturally occurring and rich in content in oranges, avocados, and papaya.
- fruits are a rich source of water-soluble <u>Vitamin C</u> (blackcurrants, strawberries, Kiwis, citrus fruits e.g., oranges)
- <u>Beta Carotene (pro-vitamin A)</u> is found in cantaloupe, melon, apricots.

Healthy Heart: (D)

- Fruit is good for a healthy heart, and it is rich in antioxidants, vitamins A/C/E. They 'mop up' free radicals in the body reducing the risk of certain cancers.
- Fruit is 'fat free' therefore can help lower 'LDL', low density lipoproteins (bad cholesterol) in the blood.



○ Healthy Bowel: (D)

Current dietary guidelines as recommended by the food pyramid (December 2016) indicates 5 – 7 servings of fruit and vegetables should be consumed daily. They are a rich source of fibre which when drank with enough water can stimulate peristalsis and help remove waste feces from the colon daily reducing the risk of diverticulitis.