Biology for UPSC {Class-1

Preliminary exam

- General Studies Paper I General Science
 Mains exam
 General studies Paper III Biotechnology

Syllabus

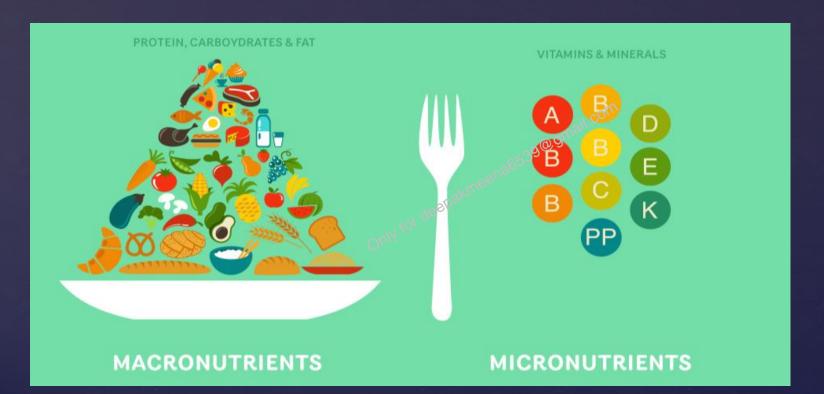
Weightage in prelims

YEAR	NUMBER OF QUESTIONS
2024	1 com
2023	1 3 5 d5 Pakmeena 6539 @ gmail.com 4
2022	5 ymeena653
2021	4 5 °P21°
2020	4
2019	5
2018	2
2017	1

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Food and Nutrition

Types of Nutrients -



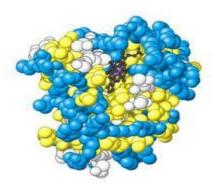


CARBOHYDRATES



PROTEINS

Fibrous vs. Globular proteins



Globular: functional protein with active domain(s)

Fibrous: generall structural role (e.g. collagen)





FATS

Different Types of Fat

Unsaturated ("Good") Fats

Saturated Fats

_{mail.}com Trans Fats



Nuts, avocadoes and other vegetables



FOUND IN:

Animal products (dairy, meats) and oils (palm, coconut)



Processed snacks and baked goods



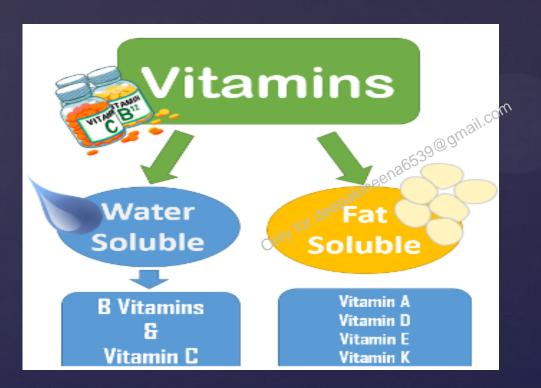
A company marketing food products advertises that its items do not contain trans-fats. What does this campaign signify to the customers?

- 1. The food products are not made out of hydrogenated oils.
- 2. The food products are not made out of animal fats/oils.
- 3. The oils used are not likely to damage the cardiovascular health of the consumers.

 Which of the statements given above is/are correct?

 a) 1 only

- 2 and 3 only
- 1 and 3 only
- 1, 2 and 3 d)



- ₽ B1- THIAMINE
- № B2- RIBOFLAVIN
- k B3-NIACIN
- **№** B5-PANTOTHENIC ACID

- B9- FOLIC ACID

 B12- CYANOCOBAL AND MINE

 C- ASCORBIC ACID

Water soluble vitamins

- & A-RETINOL
- & D- CALCIPHEROL
- & K-PHYLLOQUINONE Pra6539@gmail.com

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Fat soluble vitamins

Which one of the following statements is NOT correct

- a)
- Milk contains none of the B-vitamins. Witamin-A retinol deficiency leads to dry and scaly skin.

 One of the symptoms of scurvy is pain in the joints. b)
- Vitamin B, thiamine deficiency can lead to heart d) failure.



MINERALS

Macrominerals

- k CALCIUM
- & SODIUM
- & CHLORINE
- **& POTASSIUM**
- & PHOSPHOROUS
- **& MAGNESIUM**
- & SULFUR

Microminerals

k IRON

k FLOURINE

k COPPER

on toldeep & ZINC

Minerals