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General Science
M. Mahroz Adan (001)
Test # 1

discussion class

Q1

Answer Part (a)

Vaccine

- 1) Vaccine is used to provide immunity to fight with infection or disease.
- 2) Vaccines are given as a prior preparation in order to make anti-bodies for certain disease.
- 3) Vaccine provide protection for long period of time.
- 4) Vaccines are mostly given through injection.
- 5) Example : Polio drops.

Antibiotics

- 1) Antibiotics are the medicines which kills the bacteria or microorganism.
- 2) These are prescribed by the doctor after any infection or disease found in the body.
- 3) Antibiotics provides protection for short period of time.
- 4) Antibiotics are mostly given through tablets.
- 5) Example : Streptomycin.

Question no 12 :-

Answer part (b)

1) Cyclones

Cyclones are large revolving tropical storms caused by wind blowing around low atmospheric pressure area.

Cause: Cyclones are caused due to the atmospheric disturbances around low pressure.

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area.

2) Tsunami

Tsunami is a series of extremely long wave caused by a large and sudden displacement of the ocean.

Cause

Usually Tsunamis are the result of earthquake below or near the ocean, and volcanic eruption.

3) Typhoon

A typhoon is a giant, rotating storm that brings wind, rain, and destruction. Typhoons are the giant version of tropical cyclones.

Cause

Typhoons are formed due to the high temperature around the surface of sea.

Answer Part (c)

Galaxy

Galaxy is a fundamental unit of universe composed of hundreds of thousands of stars with gas and dust. Collection of galaxies are called cluster. Galaxy is derived from greek word means Milky. The name of our own galaxy is Milky Way.

Classification of Galaxy

Galaxy is classified by Hubble in 1924.

There are three types of galaxies:

1) Elliptical

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most abundant
It is shaped

2) Spiral Galaxy

Spiral galaxy why called dust are galaxies are

- 1) Sa : tight
- 2) Sb : bet
- 3) Sc : Ver

3) Irregular

Irregular galaxies are among of gas and

Milky Way

Milky Way Billions of galaxies years to Milky way the large of Milky 200 B S in the galaxy.

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most abundant type of galaxies found in universe
It is shaped like ellipses (stretched circle)

2) Spiral Galaxies

Spiral galaxies are spiral in shape that's why called spiral galaxies. The stars, gas and dust are gathered in spiral arms. Spiral galaxies are further divided into three types

- 1) Sa : tightly wound arms
- 2) Sb : between moderately wound arms
- 3) Sc : Very loosely wound arms.

3) Irregular Galaxies

Irregular galaxies have no particular shape. They are among the smallest galaxies and are full of gas and dust.

Milky Way Galaxy:

Milky Way galaxy is our galaxy. There are billions of galaxies in the universe. 150 galaxies are officially observed. It takes 2.5M years to reach to our nearest galaxy. Our Milky way is a spiral galaxy. The Sun is the largest object of Milky way. The diameter of Milkyway is 105 light years. It contains 200B stars in the milkyway. All the objects in the galaxy revolve around the center of galaxy.

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Question no 2 :-

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Part A :

Good Fat

- 1) Good Fat includes Mono-saturated Fats and Poly-saturated Fats
- 2) Good Fats help protect your body against heart disease.
- 3) Good Fat helps to reduce bad cholesterol.
- 4) Good Fat helps building cell membranes.
- 5) Good Fat manages inflammation
- 6) Good Fat monosaturated sources are olive oil, Peanut olive, canola oil, Avocado, and Nuts.

Bad Fat

- 1) Bad Fat includes Trans fat and Saturated fats.
- 2) Bad Fat pose a threat to your heart and blood vessel system.
- 3) Bad Fat reduces good cholesterol.
- 4) Bad Fat elevates cholesterol levels.
- 5) Bad Fat creates inflammation
- 6) Bad Fat Trans sources are Fast Food, Packaged food, Red meat, cured meat.

Part B :

Answer

i) Vitamin B-complex

Vitamin B-complex is used in :

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- 1) formation of Red blood cells
- 2) Better Digestive System
- 3) fast metabolism
- 4) Muscle tissue growth
- 5) Maintain Brain function.

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Vitamin E

It is used in

- 1) Hair loss Prevent
- 2) Prevention of skin
- 3) Moisture skin
- 4) Wound Healing
- 5) Prevent Anti-oxidation

Vitamin D :

Vitamin D is

- 1) vitamin D1
- 2) improve bone
- 3) Promotes Tissue
- 4) Protection of
- 5) Improve Brain

Iron

- 1) Iron helps
- 2) Energy Metabolism
- 3) Prevent fat
- 4) Prevent Anemia
- 5) Improve Skin

Part C

Answer

Food Adulteration

Food Adulteration is known as mixing or adding substances to food which is known as adulteration.

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Vitamin E

It is used in :

- 1) Hair loss Prevention
- 2) Prevention of SKin diases.
- 3) Moisture SKin
- 4) Wound Healing
- 5) Prevent Anti-aging.

Vitamin D.

Vitamin D is used in

- 1) Vitamin D is used in bone strengthening
- 2) Improve dental health
- 3) Promotes Tissues health
- 4) Protection against Bone
- 5) Improve Brain function

Iron

- 1) Iron helps to transport oxygen around the Body
- 2) Energy Metabolism
- 3) Prevent fatigue
- 4) Prevent Anemia.
- 5) Improve Sports performance.

Part C

Answer

Food Adulteration

Food Adulteration is a act of secretly mixing a substance with another. Intentionally adding substances to degrade quality of food is known as food adulteration.

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Types

Food Adulteration have ^{basic} two types:

- 1) Economic Adulteration
- 2) Poisonous Adulteration

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Economic Adulteration

Economic Adulteration ✓ is used to gain more profit in business.

Poisonous Adulteration

Poisonous Adulteration is done by adding substances in natural food to ✓ make it poisonous, and to make its quantity more.

Effects

Food Adulteration is less harmful for consumers as it is not a safe process and it can cause multiple diseases like cancer etc.

Solution

Food Adulteration is ✓ can be control by supervision of government authorities. Food department must need need to take measures for stopping the adulteration, as it can effect our future.

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Part d :

Answer

Food can be preserve using several methods
Some of them are discussed below.

1) Drying

Food can be preserve using dry method
as this can store food for long period of
time. This method is used mostly in
mountains by old villagers to preserve food.

2) Smoking

Food can also be preserved using
Smoking method. Food can be preserve using
Smoke.

3) Cooling

Food can be preserve using cooling method.
It is one of the most common practices that
is used in urban cities. ✓

4) Salting

Food can also be preserve using salt
method. In this food is salted to make
bacteria away from food. ✓

5) Pickling

Pickling is a method of preservation
in this food is ✓ deeped in vinegar &
and salt and it can be store for
long term use.

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