

## Part II - Section I

Q. No. 2.

a. "Artificial intelligence is the new electricity."

Justify with your opinion?

By the advent of Artificial Intelligence the human beings are now has been entered in a new era of revolution. This is the age of real intelligence and competition. Artificial Intelligence is serving just like electricity; electricity produce production, increase number of development, run away or execute a programme, revolutionise industry, AI is also performing some tasks in every field coding, marketing, designing, production, manufacturing, industry at high or low level, produce jobs, it has become just as water to live, or food to survive in every field of life.

b. CPU is brain of computer, now it resembles with human brain in working?

CPU stands for central processing unit. It is usually called the mind of a computer. Whenever we type or command to function something

to computer. It works like or act as we command to it. Just as human brain perform and think and behave accordingly to human body. CPU is the data base of computer, having storage in it's self like human brain having all information in itself.

CPU order other devices to act alike just an human brain send message to body.

c. What do you mean by a balanced diet? Deficiency of Vitamin A, B, and C can result into what type imbalance in human body?

A balance diet is what which having all types of food equally or required portion of all things which a human being is needed. There are usually five group of food:-

1. Carbohydrates
2. Milk + water
3. Protein
4. Vitamins
5. fat
- Water

we should take as required amount from each group. Deficiencies of vitamin can result as:

A = Night blindness

B = Beriberi, Pellagra, Paresthesia, Cancer, Anemia

C = Scurvy and swelling

b. Discuss working of optical fiber. What is GPS? How 2D and 3D can result into what type locations are measured by satellites?

Optical fiber is a thin layer, made up of plastic or glass, can be use for data transmission, on various edges. According to capacity there are further types of optical fiber are available. GPS stands for Global Positioning system, consisting on network of earth's satellites orbits.

2D and 3D location are measured by different techniques involving GPS, sensors, SLR, IMU etc.

Q4

a. Write a note on liver juice 'Bile'.

Liver Juice "bile" is very useful in digestive system, which is produce in liver and collected or stored in galblader. Through which food can be easily digested, improve immune system, helping to small intestine.

b. Describe role of kidney in excretion?

Kidney in human body just work like a filter, which protect essential or healthy elements of food and reduce toxins, acids from body.

Kidney makes/produce urine. It regulate excretory system. Reduce toxins from body. Make a person healthy and maintain bile also hormones.

### c. Discuss different methods of Solid Waste Management.

Solid waste management refers to the manage the process of collecting and cleaning the solid wastes. Everywhere we see heaps of dirt cause environmental problem, health hazard also, so the basic method is 3R formula.

Reduce - Reuse - Recycle and the other is using organic - compost in fields and unorganic to make energy.

### d. Define the terms:

i. **Anaemia** Anemia is a blood disease, which cause due to deficiency of vitamin B and iron. Deficiency in red blood cells and hemoglobin it may cause. A person who suffer by this experice fatigue and yellow pale skin.

### ii. Appendicitis

Appendicitis is a disease, occur when a tube like structure attached to large intestine fills up with pus and abrupt severe pain in lower abdomen is experienced also vomiting and fever. Surgically this bulb removed to cure.

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**iii- Spleen** . Spleen, a body organ, very important in immune system and filtering blood also. When there is over trauma, it tears and deficiency in red and white blood cell it causes inflammation and pain, due to this it can be removed.

#### **iv- Myopia**

Myopia a visionary problem, by which nearby objects can be seen easily but the objects at distance can not be seen clearly. It may cause due to close eyesight task or less outdoor activities and genetics too.

#### **v- Isotones**

Isotone is a biological fluid.

SECTION = D, Part - D

Q.6: Find the value of cylinder with radius 30cm and height 1m.  $V = \pi r^2 h$

$r = 30\text{cm}$  height = 1m convert in meter =  $\frac{30}{100} = 0.3\text{m}$   
By applying formula:-

$V = \pi r^2 h$   $V = \pi r^2 h$

~~$V = \frac{3}{14} \times (1)$~~   $V = 3.14 \times 0.3 (1)$

$V = 3.14 \times 0.3$   $V = 0.942$

ii) The average age of three boys is 15 years. If their ages are in the ratio 3:5:7, what is the age of the youngest boy?

average age of 3 boys = 15 year • Because this is average

find total age =  $15 \times 3 = 45$  years

Ratio of age = 3:5:7

find the youngest child age

$3x + 5x + 7x = 45$

$$\frac{15x}{15} = \frac{45}{15}$$

$x = 3$

Put the value

of  $x$

$3(3) + 5(3) + 7(3) = 45$

$y = 9 + 15 + 21 = 45$   
 $\frac{45}{3} = 15$   
 $45 = 45$

The age of youngest child is 9 years

iii) Identify the series:

i- 8, 19, 52, 151, 447, — (what is the

wrong num in this series?)

8, 19, 53, 151, 447, —

By adding sequentially 11 and multiply by 3

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Day: (Mon) (Tue) (Wed) (Thu) (Fri) (Sat)

8, 19, 53, 151 respectively figure come 448, So, 447 is wrong and next digit will be 1339

ii- 11, 13, 17, 19, 23, 29

11, 13, 17, 19, 23, 29

d. If the triangle has sides of 5cm, 4cm, and 6cm. What will be each angle?

It will be a scalene triangle having all sides unequal.

