

# Dos and Don'ts for General Science & Ability Paper Part II - Section I

Ans.

a.

*"Artificial intelligence is the new electricity"*

Hi there you've done well. Know that acquiring knowledge is one thing and reproducing it in paper according to what's asked is another. There are a few things I would like to highlight.

1. A 5 marks part requires at least 2 and at max 3 sides of a paper. Know that there can be two or three parts of a question and their marks are divided accordingly. So, address all of them in a just manner.

2. Focus on time management. You get 35 minutes to solve one question and about 8 minutes per 5 mark part. Manage your time accordingly.

3. You need to understand that your paper is supposed to look more scientific than theoretical. So, add flowcharts and diagrams where required.

4. Your handwriting and neatness can be really impactful. Avoid cutting and overwriting.

b.

*CPU is brain of computer, now it resembles with human brain in workings*

5. Focus on your spellings and your grammar.

6. In ability portion, give explanation for analytical ability question in words. You need to understand that a 5 mark part requires all steps written and explained.

Good luck for CSS 2025. You're gonna rock in sha Allah. :)



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

we should take a required amount from each group. Deficiencies of vitamins 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, SLs, 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 immun 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 best 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, occurs 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 vision problem, by which nearby objects can be seen easily but the objects at distance can not be seen clearly. Its main 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:-  
 $V = \pi r^2 h$   $V = \pi r^2 h$   
 ~~$V = \frac{3}{14} \times (1)$~~   ~~$V = 3.14 \times 3(1)$~~   
 ~~$V = 3.14 \times 0.3$~~   ~~$V = 0.942$~~

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 of  $x$

$3x + 5x + 7x = 45$  Put the value of  $x$   
 $3(3) + 5(3) + 7(3) = 45$

$\frac{15x}{15} = \frac{45}{15}$   
 $x = 3$

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

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



Date:   /  /  

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.

