

Hi there - you've prepared well! Remember, knowing the content is one thing, but presenting it in the paper exactly as required is another. Here are a few key points to keep in mind:

1. For a 5-mark part, aim to write at least 2 and at most 3 sides of the answer. **Date:** First, often a question has two or three parts, and the marks are divided accordingly - so at least each part (aim for 2 marks each part) has to have at least 35 minutes per full question, which comes down to around 8 minutes for each 5-mark part. Stick to this to avoid rushing later.
2. Manage your time wisely - **Part III** have about 35 minutes per full question, which comes down to around 8 minutes for each 5-mark part. Stick to this to avoid rushing later.
3. Make your answers look good. Use flowcharts and diagrams wherever they add clarity. **Section 1** Use flowcharts and diagrams wherever they add clarity.
4. Mind your spelling and grammar. Write clearly and legibly. Every organelle has a different function. For the cell wall, it is different. Every organelle has a different function. For the cell wall, it is different.
5. Mind your spelling and grammar. Write clearly and legibly. Every organelle has a different function. For the cell wall, it is different.
6. In the final part of the question, provide clear explanations. **plant cell**, provide protection, support and shape.

Here's a brief key to the cell. **cell membrane**, provides passage for nutrients to pass through. **Endoplasmic reticulum (ER)**

Q.6 a) Candy ratio problem. **largest organelle in the cell, is responsible for**
Given: Packets in ratio of Apple : Berry : Cherry = 3 : 6 : 2 : 5
Asked: If Apple can produce 35 packets, how many Berry packets are there?
Note (consistency check): The ratio shows Apple = 3 parts and Date = 5 parts, so Date is larger than Apple in the ratio. The smallest "Apple and Date" ratio is 3:5, so the ratio of Apple to Date cannot exceed Date if ratio is 3:5. Two ways to handle this:

1. If the problem truly intends Apple - Date = 35, that's impossible with the given ratio (would require negative common factor)

(b) Doping is the process of addition of impurity to a pure semiconductor to make it an Extrinsic semiconductor which is one of the type of semi-conductor.

Formula: Let common factor = k. Apple = 3k, Date = 5k.
So 5k - 3k = 2k = 17.5

Solution: 2k = 17.5, k = 8.75
Berry = 6k = 52.5

Answer: 105 Berry packets.
(if you intended the other wording exactly as written, note that it is inconsistent with the ratio.)

b) Camera discount + tax
type of semi-conductor is known as intrinsic

Given: Original price = \$200. Discount = 25% off. After discount, 6% tax applied.
Asked: Total sale price.

Formula / Step: it's pure form e.g. silicon and germanium

Discount amount = 25% of 200 = 0.25 × 200.

Sale price = 200 - discount.

Tax = 6% of sale price.

Total = sale price + tax.

Solution (digit by digit):
Discount = 200 × 0.25 = 50.
Sale price = 200 - 50 = 150.
Tax = 150 × 0.06 = 9.

Date: _____

(c) The merits of volcanic eruptions ~~are~~ are
Volcano is a vent in the earth's crust
through which lava and steam are expelled.
The demerits of volcanic eruptions are it
destroys the human ~~para~~ habitat and it
when erupted with molten lava.

(d) Dengue is a disease which is also known
as dandy fever. It is caused by mosquito bite
which transmit dengue virus among people. The
symptoms of dengue are high fever, muscle and
joint pain, headaches, swollen lymph nodes. Remedies
for dengue is wearing protective clothing like
long sleeved shirts, long pants, Use of mosquito
repellents and mosquito nets. The treatment of dengue
should be given supportive care in hospital,
replacement of body fluids, painkillers and
monitoring of platelet count.

84) a) Chlorophyll are only present in the
plant cells situated in the leaves. Chlorophyll
traps the sunlight and help the plant
perform the process of photosynthesis.
Chlorophyll is the agent which provides the
leaves ~~are~~ with the green colour.

Date: _____

(b) Ribosomes are present in the Rough Endoplasmic Reticulum (RER). Ribosomes serve as a site for protein synthesis by decoding the mRNA and linking amino acids to form a new protein.

(c) The different methods of Solid Waste Management are Landfill, digging a large hole in the ground to dump waste materials. Another method is Incineration where the solid waste is burned at a high temperature.

(d) (i) Biofuel
Biofuel are the alternative energy resource.
* It is a substitute fuel derived from the Bio-mass.
It is an environment friendly fuel.

(ii) Adulteration
It is an act to debase the ~~good~~ quality of food either through the removal of valuable ingredients or through adding an inferior substance in food.

(iii) Hydrosphere
It represents the water body of earth like rivers, lakes, streams. It is always in motion. Water move great distances and cover greater distances such as between the tropics and poles.

Date: _____

(iv) Troposphere

It is the first atmospheric layer.
It extends upto 20 km from the earth surface.
Weather occurs in troposphere. Temperature drops as the height increases.

(v) Isotopes

Isotopes are the atom of the same material having same atomic number but different mass number such as Uranium-235 and Uranium-237.

Section II

Q6) a) Apple : Berry : Cherry : Date

3 : 6 : 2 : 5

$$\begin{aligned} \text{Date} - \text{Apple} &= 35 \\ \text{Ratio} &= 2 \end{aligned}$$

$$= 17.5$$

$$\begin{array}{r} 17.5 \\ \times 6 \\ \hline 105.0 \end{array}$$

$$\text{Berry} = 6 \times 17.5 = 105 \text{ candies of Berry}$$

(b) Price = \$200

Discount = 25%

$$\text{Discounted price} = \$200 - 6\% \times$$

$$\frac{6}{100} \times 200 = \$12$$

$$\begin{aligned} \text{Discounted price} + \text{tax} &= \text{Amount paid} \\ \$150 + \$12 &= \$162 \end{aligned}$$

Date: _____

(c) Distance = 36 km
Speed = 18 km/hr
Time = ?

$$\text{Time} = \frac{\text{Distance}}{\text{speed}}$$

$$T = \frac{36}{18} = 2$$

Time = 2 hrs taken

It will reach by 3 pm Ans

(d) i) ~~STATISTICS~~

19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

~~STATISTICS~~

~~STATISTICS~~

(ii) ~~LGEBMAR~~

Q7) c) Volume of sphere with diameter 14 cm

$$V = \frac{4}{3} \times \pi r^3$$

$$= \frac{4}{3} \times \frac{22}{7} \times 7^3$$

$$= \frac{4}{3} \times \frac{22}{7} \times 343$$

$$= 1436.73 \text{ Ans}$$

$$\begin{array}{r} 869 \\ \times 7 \\ \hline 343 \end{array}$$

(ii)

Saving = 25000 Rs

Ratio = 1:2:3:4:5 = 15

$$\frac{5000}{25000} = \frac{1}{5}$$

$$\begin{array}{r} 1666.66 \\ 35 \overline{) 58000} \\ \underline{11800} \\ 4800 \\ \underline{10500} \\ 1800 \\ \underline{3500} \\ 1800 \\ \underline{3500} \\ 1800 \\ \underline{3500} \\ 1800 \end{array}$$

Smallest share = 1666.6 Rs A₂

(c) Spot the error / complete the Series

(i) 2 is the error

(ii) 3, 5, 7, 11, 13, 17

$$\begin{array}{r} 48 \\ \times 3 \\ \hline 144 \\ \times 3 \\ \hline 162 \\ \times 3 \\ \hline 486 \end{array}$$