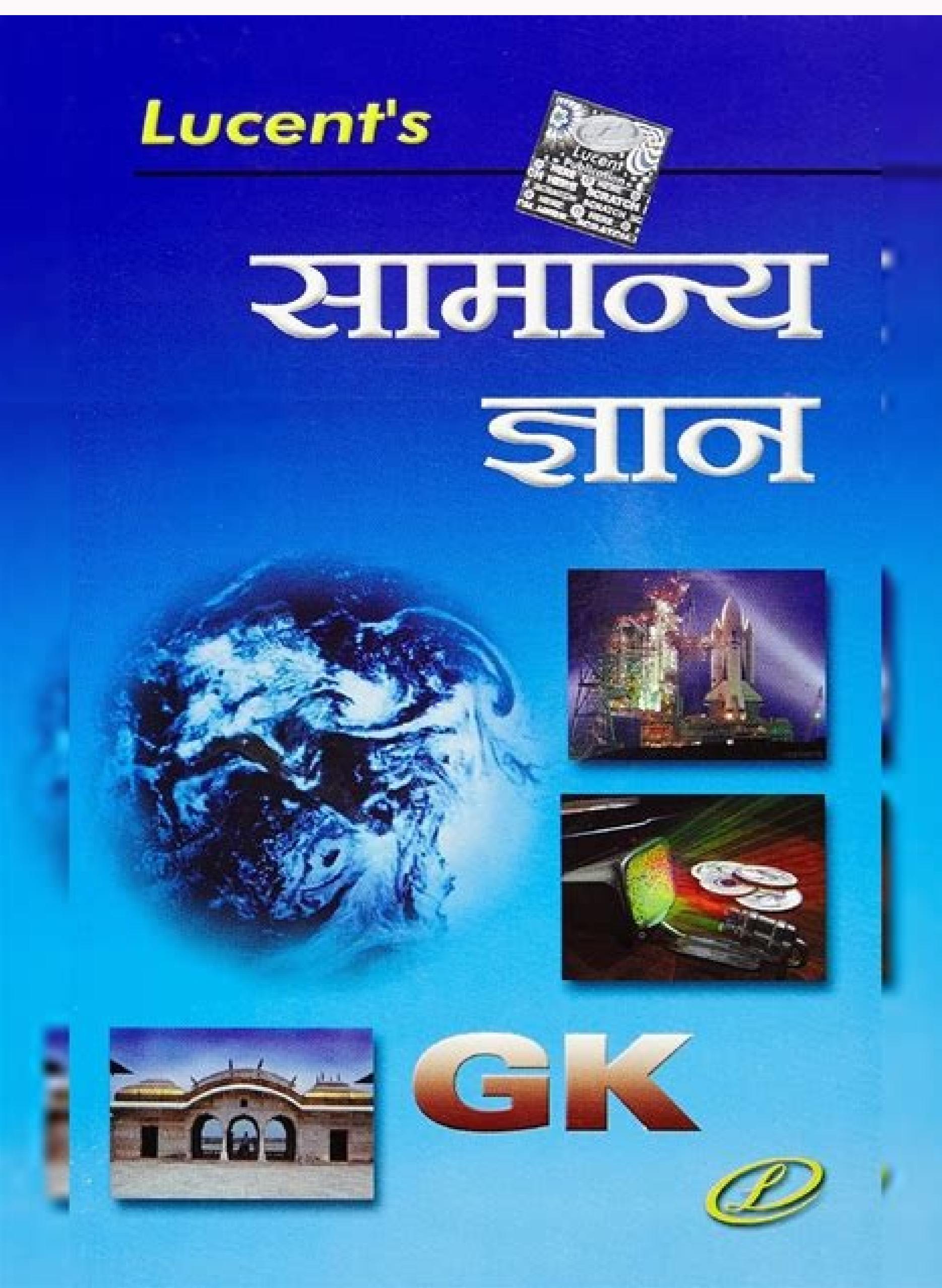


**Continue**



Formulas	
<b>Right Triangle</b>	<b>Pythagorean Theorem</b>
$\text{Hypotenuse}^2 = \text{Leg}_1^2 + \text{Leg}_2^2$	$a^2 + b^2 = c^2$
$\text{Leg}_1 = \sqrt{c^2 - b^2}$	$\text{Leg}_1 = \sqrt{c^2 - b^2}$
$\text{Leg}_2 = \sqrt{c^2 - a^2}$	$\text{Leg}_2 = \sqrt{c^2 - a^2}$
<b>Distance Formula</b>	<b>Distance Formula</b>
$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
<b>Midpoint Formula</b>	<b>Midpoint Formula</b>
$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$	$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
<b>Area of a Triangle</b>	<b>Area of a Triangle</b>
$\frac{1}{2} \times \text{base} \times \text{height}$	$\frac{1}{2} \times \text{base} \times \text{height}$
<b>Area of a Trapezoid</b>	<b>Area of a Trapezoid</b>
$\frac{1}{2} \times (\text{Base}_1 + \text{Base}_2) \times \text{height}$	$\frac{1}{2} \times (\text{Base}_1 + \text{Base}_2) \times \text{height}$
<b>Area of a Parallelogram</b>	<b>Area of a Parallelogram</b>
$\text{base} \times \text{height}$	$\text{base} \times \text{height}$
<b>Area of a Rectangle</b>	<b>Area of a Rectangle</b>
$\text{length} \times \text{width}$	$\text{length} \times \text{width}$
<b>Area of a Square</b>	<b>Area of a Square</b>
$\text{side}^2$	$\text{side}^2$
<b>Surface Area of a Cube</b>	<b>Surface Area of a Cube</b>
$6 \times \text{side}^2$	$6 \times \text{side}^2$
<b>Volume of a Cube</b>	<b>Volume of a Cube</b>
$\text{side}^3$	$\text{side}^3$
<b>Surface Area of a Rectangular Prism</b>	<b>Surface Area of a Rectangular Prism</b>
$2(\text{length} \times \text{width} + \text{length} \times \text{height} + \text{width} \times \text{height})$	$2(\text{length} \times \text{width} + \text{length} \times \text{height} + \text{width} \times \text{height})$
<b>Volume of a Rectangular Prism</b>	<b>Volume of a Rectangular Prism</b>
$\text{length} \times \text{width} \times \text{height}$	$\text{length} \times \text{width} \times \text{height}$
<b>Surface Area of a Sphere</b>	<b>Surface Area of a Sphere</b>
$4\pi r^2$	$4\pi r^2$
<b>Volume of a Sphere</b>	<b>Volume of a Sphere</b>
$\frac{4}{3}\pi r^3$	$\frac{4}{3}\pi r^3$
<b>Surface Area of a Cylinder</b>	<b>Surface Area of a Cylinder</b>
$2\pi r^2 + 2\pi rh$	$2\pi r^2 + 2\pi rh$
<b>Volume of a Cylinder</b>	<b>Volume of a Cylinder</b>
$\pi r^2 h$	$\pi r^2 h$
<b>Surface Area of a Cone</b>	<b>Surface Area of a Cone</b>
$\pi r^2 + \pi r s$	$\pi r^2 + \pi r s$
<b>Volume of a Cone</b>	<b>Volume of a Cone</b>
$\frac{1}{3}\pi r^2 h$	$\frac{1}{3}\pi r^2 h$
<b>Surface Area of a Pyramid</b>	<b>Surface Area of a Pyramid</b>
$\text{Base Area} + \frac{1}{2} \times \text{Perimeter} \times \text{Slant Height}$	$\text{Base Area} + \frac{1}{2} \times \text{Perimeter} \times \text{Slant Height}$
<b>Volume of a Pyramid</b>	<b>Volume of a Pyramid</b>
$\frac{1}{3} \times \text{Base Area} \times \text{Height}$	$\frac{1}{3} \times \text{Base Area} \times \text{Height}$
<b>Surface Area of a Prism</b>	<b>Surface Area of a Prism</b>
$2 \times \text{Base Area} + \text{Perimeter} \times \text{Height}$	$2 \times \text{Base Area} + \text{Perimeter} \times \text{Height}$
<b>Volume of a Prism</b>	<b>Volume of a Prism</b>
$\text{Base Area} \times \text{Height}$	$\text{Base Area} \times \text{Height}$
<b>Surface Area of a Sphere</b>	<b>Surface Area of a Sphere</b>
$4\pi r^2$	$4\pi r^2$
<b>Volume of a Sphere</b>	<b>Volume of a Sphere</b>
$\frac{4}{3}\pi r^3$	$\frac{4}{3}\pi r^3$
<b>Surface Area of a Cylinder</b>	<b>Surface Area of a Cylinder</b>
$2\pi r^2 + 2\pi rh$	$2\pi r^2 + 2\pi rh$
<b>Volume of a Cylinder</b>	<b>Volume of a Cylinder</b>
$\pi r^2 h$	$\pi r^2 h$
<b>Surface Area of a Cone</b>	<b>Surface Area of a Cone</b>
$\pi r^2 + \pi r s$	$\pi r^2 + \pi r s$
<b>Volume of a Cone</b>	<b>Volume of a Cone</b>
$\frac{1}{3}\pi r^2 h$	$\frac{1}{3}\pi r^2 h$
<b>Surface Area of a Pyramid</b>	<b>Surface Area of a Pyramid</b>
$\text{Base Area} + \frac{1}{2} \times \text{Perimeter} \times \text{Slant Height}$	$\text{Base Area} + \frac{1}{2} \times \text{Perimeter} \times \text{Slant Height}$
<b>Volume of a Pyramid</b>	<b>Volume of a Pyramid</b>
$\frac{1}{3} \times \text{Base Area} \times \text{Height}$	$\frac{1}{3} \times \text{Base Area} \times \text{Height}$
<b>Surface Area of a Prism</b>	<b>Surface Area of a Prism</b>
$2 \times \text{Base Area} + \text{Perimeter} \times \text{Height}$	$2 \times \text{Base Area} + \text{Perimeter} \times \text{Height}$
<b>Volume of a Prism</b>	<b>Volume of a Prism</b>
$\text{Base Area} \times \text{Height}$	$\text{Base Area} \times \text{Height}$

B

# NEET 2020 Paper

d) Recognition of DNA molecule

**Answer:** a

**Solution:**

In translation the first phase is activation of amino acids in the presence of ATP. The activated amino acids are then linked to their cognate tRNAs, a process commonly called as charging of tRNA or aminoacylation of tRNAs.

29. Match the following columns and select the correct option.

**Column-I**

- (a) Clostridium butylicum
- (b) Trichoderma polysporum
- (c) Monascus purpureus
- (d) Aspergillus niger

**Column-II**

- (i) Cyclosporin-A
- (ii) Butyric Acid
- (iii) Citric Acid
- (iv) Blood cholesterol lowering agent

<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>
a) (i)	(ii)	(iv)	(iii)
b) (iv)	(iii)	(ii)	(i)
c) (iii)	(iv)	(ii)	(i)
d) (ii)	(i)	(iv)	(iii)

**Answer:** d

**Solution:**

*Clostridium butylicum* is (a bacterium) of butyric acid. Cyclosporin A which is used as an immunosuppressive agent in organ-transplant patients, is produced by the fungus *Trichoderma polysporum*. *Monascus purpureus* is not a blood cholesterol lowering agent, statins produced by it are been commercialised as blood-cholesterol lowering agents. *Aspergillus niger* is (a fungus) of citric acid.

30. The oxygenation activity of RuBisCo enzyme in photorespiration leads to the formation of:

- a) 1 molecule of 6-C compound
- b) 1 molecule of 4-C compound and 1 molecule of 2-C compound
- c) 2 molecules of 3-C compound
- d) 1 molecule of 3-C compound

**Answer:** d

**Solution:**

Photorespiration is the light dependent process. At high temperature, RuBP carboxylase functions as oxygenase and instead of fixing carbon dioxide (C<sub>2</sub> cycle), oxidises ribulose 1, 5-biphosphate to produce a 3-carbon phosphoglyceric acid and a 2-carbon phosphoglycolate.

31. Match the following concerning essential elements and their functions in plants:

**Column-I**

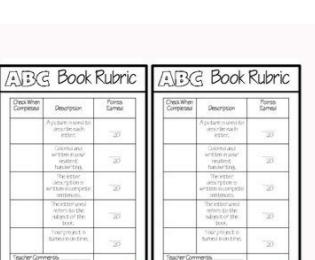
- (a) Iron
- (b) Zinc

**Column-II**

- (i) Photolysis of water
- (ii) Pollen germination

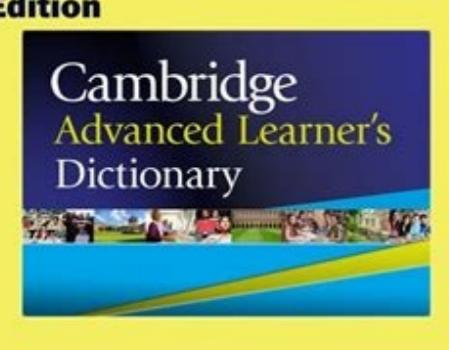
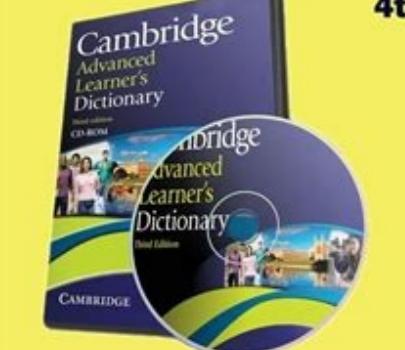
13<sup>th</sup>September 2020, Biology

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