

Question # 1 of 30 (Start time: 06:59:04 PM, 28 December 2020)

To

Two monomers in carbohydrates linked together by ---bonding

Select the correct option



Glycosidic bonding



Peptide linkage



Ester linkage



Ether linkage

Question # 2 of 30 (Start time: 07:00:35 PM, 28 December 2020)

To

Which of the following RNA polymerases are responsible for the production of 5S rRNA?

Select the correct option



RNA polymerase I



RNA polymerase II



RNA polymerase III



RNA polymerase IV

Question # 3 of 30 (Start time: 07:01:25 PM, 28 December 2020)

To

Which part of sigma factor associates with -10box?

Select the correct option



1.2



2.4



4.4



4.2

Question # 4 of 30 (Start time: 07:03:14 PM, 28 December 2020)

In alkaptonuria ----enzyme is missing

Select the correct option

☐	Homegenistic acid oxidase
☒	Amalyase
☐	Trypsin
☐	Arginase

Click to Save Answer & Move to Next

Question # 5 of 30 (Start time: 07:04:47 PM, 28 December 2020)

Which cation is placed in the catalytic subunit of RNA polymerase?

Select the correct option

☐	Zn ²⁺
☐	Mn ²⁺
☒	Mg ²⁺
☐	Fe ³⁺

[Click to Save Answer & Move to Next](#)

Question # 6 of 30 (Start time: 07:06:07 PM, 28 December 2020)

To

RNA polymerase moves from 3 to 5 prime direction and synthetize in ----

Select the correct option



5 to 3 prime



3 to 5 prime



In any direction



in direction of okazaki fragment

Question # 7 of 30 (Start time: 07:07:51 PM, 28 December 2020)

To

According to Chargaff rule

Select the correct option

 $AC=TC$  $T+A=G+C$  $A+G=T+C$  $AT=TC$

Question # 8 of 30 (Start time: 07:09:43 PM, 28 December 2020)

RNA polymerase opens ----base pairs at a time .

Select the correct option

☒	20bp
☐	30bp
☐	25bp
☐	40bp

[Click to Save Answer & Move to Next](#)

Question # 9 of 30 (Start time: 07:11:18 PM, 28 December 2020)

To

Which of the following steps for the production of RNA is not regulated by enhancers?

Select the correct option



Initiation



Elongation



Termination



RNA processing

Question # 10 of 30 (Start time: 07:12:06 PM, 28 December 2020)

To

---- enzyme join two DNA fragments with sticky ends .

Select the correct option



Topoisomerase



DNA gyrase



DNA polymerase



Ligase

Question # 11 of 30 (Start time: 07:13:15 PM, 28 December 2020)

To

Okazaki fragments are joined by

Select the correct option



Primase



Helicase



Gyrase



Ligase

Question # 11 of 30 (Start time: 07:13:15 PM, 28 December 2020)

To

Okazaki fragments are joined by

Select the correct option



Primase



Helicase



Gyrase



Ligase

Question # 12 of 30 (Start time: 07:15:03 PM, 28 December 2020)

The E. coli RNA polymerase adds_____nucleotides per second.

Select the correct option

☐	20
☐	30
☐	40
☒	50

[Click to Save Answer & Move to Next](#)

Question # 13 of 30 (Start time: 07:16:32 PM, 28 December 2020)

To

When was the operation mechanism of a bacterial operon first elucidated?

Select the correct option



1961



1971



1981



1991

Question # 14 of 30 (Start time: 07:17:09 PM, 28 December 2020)

To

Lysosomes contain more than 50 types of _____ enzymes

Select the correct option



Hydrolases



Lipases



Amylases



Proteases

Question # 16 of 30 (Start time: 07:19:49 PM, 28 December 2020)

Insulin formed by genetically engineered bacteria and pancreas used for---

Select the correct option

- | | |
|----------------------------------|-----------------------------------|
| ☐ | Maintains the blood glucose level |
| ☒ | Maintains the enzyme level |
| ☐ | Maintains protein level |
| ☐ | Maintains cholesterol level |

Click to Save Answer & Move to Next

Question # 16 of 30 (Start time: 07:19:49 PM, 28 December 2020)

Insulin formed by genetically engineered bacteria and pancreas used for---

Select the correct option

- | | |
|----------------------------------|-----------------------------------|
| ☐ | Maintains the blood glucose level |
| ☒ | Maintains the enzyme level |
| ☐ | Maintains protein level |
| ☐ | Maintains cholesterol level |

Click to Save Answer & Move to Next

Question # 18 of 30 (Start time: 07:23:17 PM, 28 December 2020)

Frame shift mutation is a

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Substitution among nucleotide |
| ☒ | Insertion of nucleotide in a DNA sequence |
| ☐ | Deletion of nucleotide in a DNA sequence |
| ☐ | Reading frame of nucleotide in a DNA changed |

 Click to Save Answer & Move to Next

Question # 18 of 30 (Start time: 07:23:17 PM, 28 December 2020)

Frame shift mutation is a

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Substitution among nucleotide |
| ☒ | Insertion of nucleotide in a DNA sequence |
| ☐ | Deletion of nucleotide in a DNA sequence |
| ☐ | Reading frame of nucleotide in a DNA changed |

 Click to Save Answer & Move to Next

Question # 18 of 30 (Start time: 07:23:17 PM, 28 December 2020)

Frame shift mutation is a

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Substitution among nucleotide |
| ☐ | Insertion of nucleotide in a DNA sequence |
| ☒ | Deletion of nucleotide in a DNA sequence |
| ☐ | Reading frame of nucleotide in a DNA changed |



Click to Save Answer & Move to Next

Question # 19 of 30 (Start time: 07:25:03 PM, 28 December 2020)

Triglycerides have---bonding

Select the correct option

- | | |
|----------------------------------|--------------------|
| ☒ | Ester linkage |
| ☐ | Ether linkage |
| ☐ | Peptide linkage |
| ☐ | Glycosidic linkage |

 Click to Save Answer & Move to Next

Question # 20 of 30 (Start time: 07:26:12 PM, 28 December 2020)

To

Peptide bond is linkage between ---- and ---- form proteins

Select the correct option



Carbon,hydrogen



Carbon ,nitrogen



Carbon ,oxygen



Carbon ,sulphur

Question # 21 of 30 (Start time: 07:27:53 PM, 28 December 2020)

To

The catalytic unit of RNA polymerases when placed properly during initiation is just over _____

Select the correct option



-1 site



0 site



+1 site



- 10 site

Question # 22 of 30 (Start time: 07:28:27 PM, 28 December 2020)

To

Binds the enzyme at nonactive site cause a conformational change prevents enzyme from binding its substrate

Select the correct option



competitive initiators



competitive inhibitors



noncompetitive initiators



noncompetitive inhibitors

Question # 23 of 30 (Start time: 07:30:05 PM, 28 December 2020)

Which enzyme is used to join together two different types of DNA molecules?

Select the correct option

☒	ligase
☐	endonuclease
☐	exonuclease
☐	protease

Click to Save Answer & Move to Next

Question # 23 of 30 (Start time: 07:30:05 PM, 28 December 2020)

Which enzyme is used to join together two different types of DNA molecules?

Select the correct option

- | | |
|----------------------------------|--------------|
| ☒ | ligase |
| ☐ | endonuclease |
| ☐ | exonuclease |
| ☐ | protease |

[Click to Save Answer & Move to Next](#)

Question # 24 of 30 (Start time: 07:31:20 PM, 28 December 2020)

To

Mendel did not observe linkage due to..

Select the correct option



Crossing over



Independent assortment



Synapses



Linkage

Question # 25 of 30 (Start time: 07:33:12 PM, 28 December 2020)

To

Golgi apparatus manufactures _____ compound for the plant wall

Select the correct option



poly-saccharides



Mono-saccharides



Oligo-saccharides



Di-saccharides

Question # 26 of 30 (Start time: 07:33:52 PM, 28 December 2020)

To

---- vitamin acts as receptor for light and present in eyes.

Select the correct option



Vitamin C



Vitamin A



Vitamin D



Vitamin B

Question # 26 of 30 (Start time: 07:33:52 PM, 28 December 2020)

To

---- vitamin acts as receptor for light and present in eyes.

Select the correct option



Vitamin C



Vitamin A



Vitamin D



Vitamin B

Question # 27 of 30 (Start time: 07:35:36 PM, 28 December 2020)

Purine has---structure

Select the correct option

- | | |
|----------------------------------|--------------------|
| ☒ | Double ringed |
| ☐ | Single ringed |
| ☐ | Branched structure |
| ☐ | Linear structure |



Click to Save Answer & Move to Next

Question # 27 of 30 (Start time: 07:35:36 PM, 28 December 2020)

To

Purine has---structure

Select the correct option



Double ringed



Single ringed



Branched structure



Linear structure

Question # 28 of 30 (Start time: 07:36:58 PM, 28 December 2020)

To

Amount of free energy released or used in a chemical reaction is dependent on which of the following factors

Select the correct option



Enthalpy



Entropy



Absolute temperature



a,b and c

Question # 29 of 30 (Start time: 07:38:48 PM, 28 December 2020)

To

If reporter and quencher are adjacent to each other they ----- produce light.

Select the correct option



will produce



will not produce



may or may not



small amount of light produced

Question # 30 of 30 (Start time: 07:40:02 PM, 28 December 2020)

To

Which of the following are examples of monosaccharide?

Select the correct option



Glucose



Glycogen



Cellulose



Sucrose

Question # 30 of 30 (Start time: 07:40:02 PM, 28 December 2020)

To

Which of the following are examples of monosaccharide?

Select the correct option



Glucose



Glycogen



Cellulose



Sucrose