

PGT Biotechnology

Q 1). Which Indian state is planning to launch a massive jungle safari project in the Aravalli Hills, aimed at promoting eco-tourism and sustainable development?

- (A) Rajasthan
- (B) Gujarat
- (C) Madhya Pradesh
- (D) Haryana

Correct Answer: (D)

Q 2). Prime Minister Modi had accorded a ceremonial welcome during his recent visit to Croatia at _____.

- (A) St. Mark's Church
- (B) Croatian Parliament
- (C) Banski Dvori Palace
- (D) Zagreb City Hall

Correct Answer: (C)

Q 3). Which of the following countries were recently elected to serve as a non-permanent member of the UN Security Council for a two-year term starting in January 2026?

1. Bahrain, Colombia, Latvia
2. Indonesia, Sri Lanka, Vietnam
3. Liberia, The Democratic Republic of Congo

- (A) 1, 2 & 3
- (B) 1 & 3
- (C) Only 2
- (D) 1 & 2

Correct Answer: (B)

Q 4). "How many characters are there in the story?" This question is of _____ level as per the revised Bloom's Taxonomy.

- (A) remembering
- (B) evaluation
- (C) understanding
- (D) application

Correct Answer: (A)

Q 5). Which of the following is an example of positive reinforcement as per child psychology?

- (A) Giving a child a time-out for misbehavior.
- (B) Praising a child for completing homework.
- (C) Removing TV privileges for poor grades.
- (D) Ignoring a child's tantrum.

Correct Answer: (B)

Q 6). As per NEP 2020, what is the proposed bagless period for students in Grades 6-8 in a year?

- (A) 5 days
- (B) 10 days
- (C) 15 days
- (D) 20 days

Correct Answer: (B)

Q 7). The length of DNA is usually defined as _____ present in it.

- (A) number of phosphates
- (B) number of nucleotides
- (C) number of hydrogen bonds
- (D) number of ester bonds

Correct Answer: (B)

Q 8). Find incorrect statement(s) from the following.

- (i) The brain, spinal cord and nerves are all composed of the nervous tissue.
- (ii) The cells of nervous tissue are called nerve cells or neurons.
- (iii) A neuron consists of a cell body with a nucleus and cytoplasm.
- (iv) Usually each neuron has a single long part called the dendrites.

- (A) (iii) only
- (B) (iv) only
- (C) (ii), (iii) & (iv)
- (D) (i), (ii), (iii) & (iv)

Correct Answer: (B)

Q 9). The most abundant protein in biosphere is _____.

- (A) Cellulose
- (B) Glucose
- (C) Collagen
- (D) Rubisco

Correct Answer: (D)

Q 10). Match the following Column-I with Column-II.

Column I		Column II	
a.	Mitochondria	i	Synthesis of Glycoprotein
b.	Lysosomes	ii	ATP formation
c.	Chloroplast	iii	Hydrolytic enzymes
d.	Golgi body	iv	Photosynthesis

- (A) a-ii, b-i, c-iv, d-iii
- (B) a-iii, b-ii, c-i, d-iv
- (C) a-iv, b-iii, c-ii, d-i
- (D) a-ii, b-iii, c-iv, d-i

Correct Answer: (D)

Q 11). In Ti plasmid “Ti” stands for which of the following?

- (A) Tumor inhibiting
- (B) Tumor inducing
- (C) Totipotency inhibition
- (D) Totipotency inducing

Correct Answer: (B)

Q 12). In innate immunity, physiological barrier include _____.

- (A) skin on our body
- (B) acid in the stomach
- (C) certain types of leukocytes
- (D) mucus coating

Correct Answer: (B)

Q 13). Adenosine deaminase (ADA) deficiency is caused due to which of the following?

- (A) Deletion of the gene for adenosine deaminase
- (B) Inversion of the gene for adenosine deaminase
- (C) Translocation of the gene for adenosine deaminase
- (D) Substitution of the gene for adenosine deaminase

Correct Answer: (A)

Q 14). Read the following statements carefully and choose the correct answer.

Statement I: Cytoplasmic growth increases is a contingent process which occur during cell cycle.

Statement II: The event of cell cycle is under genetic control.

- (A) Both statements are correct.
- (B) Both statements are incorrect.
- (C) Statement I is correct, but statement II is incorrect.
- (D) Statement I is incorrect, but statement II is correct.

Correct Answer: (D)

Q 15). Computed tomography uses _____ to generate a three-dimensional image of the internals of an object.

- (A) Radio waves
- (B) Gamma rays
- (C) Ultraviolet rays
- (D) X- rays

Correct Answer: (D)

Q 16). Mode of action of penicillin antibiotic is to _____.

- (A) inhibit cell wall synthesis of bacteria
- (B) block protein synthesis of bacteria
- (C) denature DNA of bacteria
- (D) block entry of virus in bacteria

Correct Answer: (A)

Q 17). Hybrid protoplast produced by fusion between one protoplast of each of the two species is called as _____.

- (A) Somaclones
- (B) Homokaryons
- (C) Heterokaryons
- (D) Cybrids

Correct Answer: (C)

Q 18). _____ was utilized for the first time in world war II for the industrial production of Single Cell Protein.

- (A) Chlorella spp.
- (B) Fusarium graminearum
- (C) Candida utilis
- (D) Brevibacterium spp

Correct Answer: (C)

Q 19). Roundup ready soybean having _____ resistance.

- (A) Bromoxynil
- (B) Glyphosate
- (C) Bialasphos
- (D) Sulfonylureas

Correct Answer: (B)

Q 20). 0.5 % & 1% agarose gel is used for the separation of DNA fragment. Select the correct option regarding separation of DNA fragment.

- (A) Separation of smaller fragment is much better in 1% agarose gel as compared to 0.5%.
- (B) Separation of smaller fragment is much better in 0.5% agarose gel as compared to 1%.
- (C) There will be no difference in separation of DNA fragments.
- (D) Smaller DNA then 500bp will not be separated by using 1% agarose gel.

Correct Answer: (A)
