

PGT Biotechnology

Q 1). Who among the following has become the world's youngest and fastest female para swimmer to swim solo across the English Channel Successfully recently?

- (A) Shivani Kataria
- (B) Dolly Nazir
- (C) Devanshi Satija
- (D) Jiya Rai

Correct Answer: (D)

Q 2). Recently, an Indian-origin lecturer named Prasanthi Ram at Nanyang Technological University has won Singapore Literature Prize for English fiction for her short story named _____.

- (A) Nine Yard Sarees
- (B) House of Cards
- (C) Dollar Bahu
- (D) The Very Expensive Coconut

Correct Answer: (A)

Q 3). Recently, WHO has declared Dhulikhel Municipality as the second healthiest city in Asia. This Dhulikhel Municipality is in which of the following countries?

- (A) India
- (B) Bhutan
- (C) Nepal
- (D) Myanmar

Correct Answer: (C)

Q 4). If a teacher first explains the rule and then gives examples. Which type learning style is this?

- (A) Inductive
- (B) Deductive
- (C) Indo-Deductive
- (D) Illustration

Correct Answer: (B)

Q 5). In which stage, children are able to think about things in terms of consistent physical features?

- (A) Sensory Motor
- (B) Concrete Operational
- (C) Pre-Operational
- (D) Formal Operational

Correct Answer: (C)

Q 6). Which of the following is not the main feature of RTE Act?

- (A) Free Elementary Education for all children in age group 6-14 years in a neighbourhood school.
- (B) Completion of Elementary Education even after fourteen years of age.
- (C) Private Tuitions by teachers is not prohibited.
- (D) No child is denied admission due to lack of age certificate.

Correct Answer: (C)

Q 7). Sieve cells, sieve tubes, companion cells are component of _____.

- (A) Tracheid
- (B) Phloem
- (C) Xylem
- (D) Stomata

Correct Answer: (B)

Q 8). What is Polysome?

- (A) Ribosome attached with many sugar subunits.
- (B) Many ribosomes attached to a single mRNA.
- (C) Many ribosomes attached to Lipid molecule.
- (D) Ribosome attached to each other in branched arrangement.

Correct Answer: (B)

Q 9). Select the correct pair of substituted purine.

- (A) Uracil & Guanine
- (B) Thymine & Cytosine
- (C) Adenine & Guanine
- (D) Guanine & Uracil

Correct Answer: (C)

Q 10). Fertilizers supply _____.

- (A) nitrogen, phosphorus and oxygen
- (B) carbon, nitrogen and potassium
- (C) nitrogen, phosphorus and potassium
- (D) potassium, oxygen and carbon

Correct Answer: (C)

Q 11). Choose the correct sequence of four phases of cell cycle.

- (A) $M \rightarrow G1 \rightarrow G2 \rightarrow S$
- (B) $S \rightarrow G1 \rightarrow G2 \rightarrow M$
- (C) $G1 \rightarrow S \rightarrow G2 \rightarrow M$
- (D) $G1 \rightarrow G2 \rightarrow S \rightarrow M$

Correct Answer: (C)

Q 12). Read the following Statements and choose the correct option accordingly.

Statement-I: Plant cells differs from animals cells.

Statement-II: Plant cell possess cell walls, plastids & a large vacuole which is absent in animal cells.

- (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: (A)

Q 13). Virus-infected cells secrete proteins called as _____.

- (A) cytochrome C
- (B) caspases
- (C) antibody
- (D) interferon

Correct Answer: (D)

Q 14). In dihybrid cross what will be the numbers of phenotypes and genotypes obtained in F₂ generation?

- (A) phenotypes 4: genotypes 16
- (B) phenotypes 16: genotypes 4
- (C) phenotypes 9: genotypes 4
- (D) phenotypes 4: genotypes 9

Correct Answer: (D)

Q 15). Methanogens produce _____.

- i). Oxygen
- ii). Carbon Dioxide
- iii). Hydrogen sulfide
- iv). Methane

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

Correct Answer: (C)

Q 16). Below given is the genetically engineered plants with their transgenic variety. Find out the incorrect pair.

- (A) Canola - Laurical
- (B) Corn - Freedom II
- (C) Papaya - Rainbow
- (D) Sugar beet - Endless summer

Correct Answer: (B)

Q 17). Choose the correct statement for "Test Tube Baby".

- (A) Fertilization of ovum takes place in the uterus but develops in the test-tube.
- (B) Fertilization of ovum & its development takes place in test-tube itself.
- (C) Fertilization of ovum takes place in the test-tube but development takes place in the uterus.
- (D) Fertilization of ovum and embryo development takes place in the uterus.

Correct Answer: (C)

Q 18). The low range of GRAVY (Grand average of hydropathy) value of protein indicates _____.

- (A) the possibility of better interaction with water
- (B) the possibility of lesser interaction with water
- (C) the possibility of better interaction with other protein
- (D) the possibility of lesser interaction with other protein

Correct Answer: (A)

Q 19). Choose the incorrect pair.

- (A) The first commercial gene therapy product - **Gendicine**
- (B) Lepidopteran resistant - **Bt Brinjal**
- (C) Potato based vaccines against measles - **Edible vaccines**
- (D) Tobacco plants with glycerol-1-phosphate acyl-transferase enzyme - **Herbicide resistance**

Correct Answer: (D)

Q 20). FISH is used in _____.

- (A) determining of the configurations of geometrical isomers
- (B) study of chromosomes number and structure
- (C) contaminant identification
- (D) detection of functional groups

Correct Answer: (B)