

PGT Biology

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). In which animal body cavity is not lined by mesoderm instead mesoderm is present as scattered pouches in between ectoderm and endoderm?

- (A) Sycon
- (B) Hydra
- (C) Ascaris
- (D) Taenia

Correct Answer: (C)

Q 8). Spirogyra is which type of algae?

- (A) Marine and Locomotory algae
- (B) Marine and Floating algae
- (C) Fresh water and Floating algae
- (D) Fresh water and Locomotory algae

Correct Answer: (C)

Q 9). Match the following Respiratory Organ of some Arthropods given below.

Arthropods		Respiratory organ	
A.	Insect	i.	Book gills
B.	Scorpion	ii.	Tracheal system
C.	Prawn	iii.	Book lungs
D.	Limulus	iv.	Gills

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

Correct Answer: (B)

Q 10). What is the first step in the payoff phase of glycolysis?

- (A) Reduction of 1, 3-bisphosphoglycerate to glyceraldehyde 3-phosphate
- (B) Oxidation of glyceraldehyde 3-phosphate to 1, 3-bisphosphoglycerate
- (C) Reversible conversion of dihydroxyacetone phosphate to glyceraldehyde 3-phosphate
- (D) Irreversible conversion of dihydroxyacetone phosphate to glyceraldehyde 3-phosphate

Correct Answer: (B)

Q 11). Zoological name of common Indian Krait is _____.

- (A) Ophiophagus hannah
- (B) Naja naja
- (C) Viper russeli
- (D) Bungarus coeruleus

Correct Answer: (D)

Q 12). Medical termination of pregnancy is safe:

- (A) Upto 20 weeks of pregnancy
- (B) Upto 12 weeks of pregnancy
- (C) Second trimester
- (D) Upto 24 weeks of pregnancy

Correct Answer: (B)

Q 13). Which bacterium is used for production of vinegar?

- (A) Acetobacter Aceti
- (B) Lactobacillus Plantarum
- (C) Saccharomyces Rouxii
- (D) Leuconostoc Vinegari

Correct Answer: (A)

Q 14). The adrenal cortex can be divided into three layers. Select the correct sequence from inner to outer.

- a. Zona glomerulosa
- b. Zona reticularis
- c. Zona fasciculata

- (A) a → c → b
- (B) b → c → a
- (C) a → b → c
- (D) c → b → a

Correct Answer: (B)

Q 15). When an impulse passes through one neuron to another neuron then neurotransmitter causes which of the following?

- (A) Only inhibition to next neuron
- (B) Only excitation to next neuron
- (C) Either excitation or inhibition to next neuron
- (D) First excitation then inhibition

Correct Answer: (C)

Q 16). Which of the given following is correct regarding dicot root?

- (A) Vascular bundles are scattered irregularly in ground tissues.
- (B) The vascular bundles are open.
- (C) Cambium is absent.
- (D) There is no hard bast.

Correct Answer: (C)

Q 17). Which is FALSE for biotechnology?

- (A) It helps in bioremediation.
- (B) It is applied in energy production.
- (C) It is applied in diagnostic.
- (D) It is used in conventional breeding.

Correct Answer: (D)

Q 18). HIV is _____ type of virus.

- (A) Lentivirus
- (B) Papillomavirus
- (C) Hepadna viruses
- (D) Corona Type B virus

Correct Answer: (A)

Q 19). Some of the steps involved in DNA finger printing are listed below. Arrange them in a order.

- i. Extraction of DNA
- ii. Collecting the sample
- iii. Treating DNA with REN
- iv. GEL Electrophoresis
- v. Transfer segments of DNA to nitrocellulose membrane
- vi. Hybridize with probe
- vii. Autoradiography

- (A) iv, i, ii, v, iii, vi, vii
- (B) ii, iii, iv, vi, v, i, vii
- (C) vii, i, ii, v, iii, vi, iv
- (D) ii, i, iii, vi, v, vi, vii

Correct Answer: (D)

Q 20). Which of the following is the Major Pathway for Terpene Biosynthesis?

(A) C4 pathway

(B) Shikimic pathway

(C) MEP pathway

(D) C3 pathway

Correct Answer: (C)
