

Biology (Objective)

Group - II

Time: 20 Minutes

Marks : 17

Note: Write answers to the questions on the objective answer sheet provided. Four possible answers are given. Which answer you consider correct fill the corresponding circle A, B, C or D in front of each question with marker or ink on the answer sheet provided.

1.1 Which part of brain acts as homeostatic thermostat in human?

- (A) Thalamus (B) Hypothalamus (C) Cerebrum (D) Medulla

2. Most of cartilage consists of:

- (A) Osteoclasts (B) Osteocytes (C) Chondrocytes (D) Cartilocytes

3. Commercial cork is obtained from wood of:

- (A) Quercus suber (B) Dalbergia sisso (C) Solanum nigrum (D) Cassia fistula

4. Which hormone promotes flowering in pineapple?

- (A) Auxins (B) Cytokinins (C) Ethene (D) Absciscic acid

5. In an unstimulated neuron, the membrane potential is approximately:

- (A) + 50 mV (B) - 50 mV (C) + 70 mV (D) - 70 mV

6. Preparation for Lactation is stimulated by:

- (A) FSH (B) ICSH (C) LTH (D) TSH

7. The cavity formed between somatic and splanchnic mesoderm is called:

- (A) Archenteron (B) Coelom (C) Neurocoel (D) Blastocoel

8. In eukaryotic cells, RNA polymerase - II makes:

- (A) m-RNA (B) r-RNA (C) t-RNA (D) c-DNA

9. A typical chromosome may contain ----- nucleotides.

- (A) 4 Billion (B) 140 Billion (C) 100 Million (D) 140 Million

10. During cell cycle, chromosomal contents are doubled in:

- (A) G₁ phase (B) G₀ phase (C) S-phase (D) G₂-phase

11. Secreter gene "SE" is located on chromosome No:

- (A) 11 (B) 19 (C) 21 (D) 23

12. Bacteria naturally contain restriction endonucleases for their protection against:

- (A) Antibiotics (B) Heavy metals (C) Viruses (D) Other bacteria

13. In Sanger's method dideoxyribonucleoside triphosphate is used to terminate the synthesis of:

- (A) RNA (B) DNA (C) Protein (D) Lipids

14. Which scientist proposed endosymbiont hypothesis?

- (A) Margulis (B) Cuvier (C) Darwin (D) Malthus

15. Bacteria present in root nodules fix nitrogen and convert into:

- (A) Nitrites (B) Nitrates (C) Amino acids (D) Ammonia

16. The productivity in tropical grasslands is more than :

- (A) 1500 g/m² (B) 2000 g/m² (C) 3000 g/m² (D) 4000 g/m²

17. Establishment of forests where no forest existed previously is called:

- (A) Deforestation (B) Afforestation (C) Reforestation (D) Forestation