

Inter (Part-II) 2017

Biology	Group-II	PAPER: II
Time: 20 Minutes	(OBJECTIVE TYPE)	Marks: 17

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- 1-1- The affected individuals have one missing X-chromosome with only 45 chromosomes in:
- (a) Down's syndrome
 - (b) Sach's syndrome
 - (c) Turner's syndrome ✓
 - (d) Klinefelter's syndrome
- 2- Ozone molecule is made up by binding of three atoms of:
- (a) Carbon
 - (b) Oxygen ✓
 - (c) Nitrogen
 - (d) Hydrogen
- 3- All the alternative forms of a gene, whose number is more than two are called:
- (a) Polygene
 - (b) Multiple alleles ✓
 - (c) Manifold alleles
 - (d) Allelomorphs
- 4- In juxtamedullary nephrons, additional capillaries extend down to form a:
- (a) Vasa efferentia
 - (b) Vasa deferentia
 - (c) Vasa recta ✓
 - (d) Vasa hecta
- 5- The chromosomes become visible, shorten and thick in:
- (a) Zygotene
 - (b) Leptotene ✓
 - (c) Pachytene
 - (d) Diplotene
- 6- Anything which interferes with the normal process of development is the factor causing:
- (a) Aging
 - (b) Regeneration
 - (c) Normalities
 - (d) Abnormalities ✓

- 7- Both bones and cartilage consist of living cells embedded in the matrix of protein known as:
- (a) Collagen ✓
 - (b) Keratin
 - (c) Insulin
 - (d) Fibrinogen
- 8- The rate of primary production is about 700-1500 gm / m² annually in:
- (a) Tundra
 - (b) Tropical grassland
 - (c) Temperate grassland ✓
 - (d) Desert
- 9- The actual location of place where an organism lives, called:
- (a) Niche
 - (b) Abode
 - (c) Terrain
 - (d) Habitat ✓
- 10- All the changes of moulting are controlled by the nervous system and a hormone:
- (a) Serotonin
 - (b) Epinephrine
 - (c) Ecdysone ✓
 - (d) Melanin
- 11- The ultimate source of all changes is:
- (a) Mutation ✓
 - (b) Evolution
 - (c) Migration
 - (d) Genetic drift
- 12- From beginning of the third month of pregnancy, the human's embryo is called:
- (a) Kitten
 - (b) Kid
 - (c) Cub
 - (d) Foetus ✓
- 13- Each Okazaki fragment is synthesized by:
- (a) DNA polymerase I
 - (b) DNA polymerase II
 - (c) DNA polymerase III ✓
 - (d) DNA polymerase IV
- 14- Hemodialysis means:
- (a) Removing the blood
 - (b) Clearing the blood ✓
 - (c) Diluting the blood
 - (d) Storing the blood

15- Alzheimer's disease is characterized by the decline in the functions of:

- (a) Liver (b) Brain ✓
(c) Kidney (d) Stomach

16- Enzyme *thermos aquaticus* is commonly known as:

- (a) DNA polymerase
(b) RNA polymerase
(c) Taq ligase
(d) Taq polymerase ✓

17- Corpus luteum starts secreting a hormone known as:

- (a) Progesterone ✓ (b) Oxytocin
(c) Testosterone (d) Oestrogen

