

- | | (a) | (b) | (c) | (d) |
|-----|------|-------|-------|-------|
| (1) | (iv) | (i) | (iii) | (ii) |
| (2) | (iv) | (i) | (ii) | (iii) |
| (3) | (iv) | (iii) | (ii) | (i) |
| (4) | (iv) | (ii) | (iii) | (i) |

Answer (2)

193. During muscular contraction which of the following events occur?

- (a) 'H' zone disappears
- (b) 'A' band widens
- (c) 'I' band reduces in width
- (d) Myosine hydrolyzes ATP, releasing the ADP and Pi.
- (e) Z-lines attached to actins are pulled inwards.

Choose the **correct** answer from the options given below:

- (1) (a), (b), (c), (d) only (2) (b), (c), (d), (e) only
 (3) (b), (d), (e), (a) only (4) (a), (c), (d), (e) only

Answer (4)

194. Which of the following is **not** a step in Multiple Ovulation Embryo Transfer Technology (MOET)?

- (1) Cow yields about 6-8 eggs at a time
- (2) Cow is fertilized by artificial insemination
- (3) Fertilized eggs are transferred to surrogate mothers at 8-32 cell stage
- (4) Cow is administered hormone having LH like activity for super ovulation

Answer (4)

195. Match List - I with List - II

List - I		List - II	
(a)	Adaptive radiation	(i)	Selection of resistant varieties due to excessive use of herbicides and pesticides
(b)	Convergent evolution	(ii)	Bones of forelimbs in Man and Whale
(c)	Divergent evolution	(iii)	Wings of Butterfly and Bird
(d)	Evolution by anthropogenic action	(iv)	Darwin Finches

Choose the **correct** answer from the options given below.

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|-------|-------|
| (1) | (iii) | (ii) | (i) | (iv) |
| (2) | (ii) | (i) | (iv) | (iii) |
| (3) | (i) | (iv) | (iii) | (ii) |
| (4) | (iv) | (iii) | (ii) | (i) |

Answer (4)

196. Following are the statements with reference to 'lipids'.

- (a) Lipids having only single bonds are called unsaturated fatty acids
- (b) Lecithin is a phospholipid.
- (c) Trihydroxy propane is glycerol.
- (d) Palmitic acid has 20 carbon atoms including carboxyl carbon.
- (e) Arachidonic acid has 16 carbon atoms.

Choose the **correct** answer from the options given below.

- (1) (c) and (d) only (2) (b) and (c) only
 (3) (b) and (e) only (4) (a) and (b) only

Answer (2)

197. Which of the following secretes the hormone, relaxin, during the later phase of pregnancy?

- (1) Corpus luteum (2) Foetus
 (3) Uterus (4) Graafian follicle

Answer (1)

198. The Adenosine deaminase deficiency results into

- (1) Parkinson's disease
- (2) Digestive disorder
- (3) Addison's disease
- (4) Dysfunction of Immune system

Answer (4)

199. Which one of the following statements about Histones is **wrong**?

- (1) The pH of histones is slightly acidic
- (2) Histones are rich in amino acids - Lysine and Arginine
- (3) Histones carry positive charge in the side chain
- (4) Histones are organized to form a unit of 8 molecules

Answer (1)

200. Identify the types of cell junctions that help to stop the leakage of the substances across a tissue and facilitation of communication with neighbouring cells via rapid transfer of ions and molecules.

- (1) Tight junctions and Gap junctions, respectively
- (2) Adhering junctions and Tight junctions, respectively.
- (3) Adhering junctions and Gap junctions, respectively
- (4) Gap junctions and Adhering junctions, respectively

Answer (1)