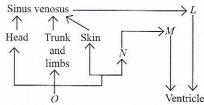
- C.  $\bigoplus {\stackrel{\nearrow}{\circ}} K_{(5)} \widehat{C_{(5)}} A_5 G_{(2)}$
- 37. The given flow chart depicts blood circulation in a frog. Select the option that correctly identifies *L*, *M*, *N* and *O*.



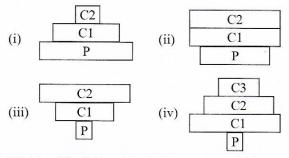
		ò		Ventricle
	$\boldsymbol{L}$	M	N	0
A.	Lungs	Left auricle	Right auricle	Truncus arteriosus
В.	Left auricle	Right auricle	Lungs	Truncus arteriosus
C.	Right auricle	Left auricle	Lungs	Truncus arteriosus
D.	Right auricle	Left auricle	Truncus arteriosus	Lungs

38. Refer to the given ecological pyramids.

Key: P - Producers
C1 - Primary consumers
C2 - Secondary consumer

C2 - Secondary consumers

C3 - Tertiary consumers



Which of the following represents pyramid in number of a grassland (X) and pyramid of biomass in a pond (Y)?

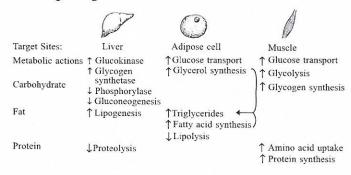
X Y
A. (ii) (iv)
B. (iv) (ii)
C. (iii) (ii)
D. (i) (iiii)

- 39. Identify organelles (W-Z) from the given statements and select the incorrect statement regarding them.
  - W: It is found in leucocytes and is mostly made up of tubules and vesicles.
  - X: It mediates production of hormones through endocrine gland.

- Y: It provides intermediates for synthesis of pyrimidines.
- Z: It contains oxidative enzymes.
- A. W could be SER that helps in formation of sphaerosomes.
- B. *X* could be Golgi body that helps in synthesis of hemicellulose and chondroitin sulphate.
- C. *Y* could be mitochondrion that helps in release of energy in aerobic respiration.
- D. Z could be chloroplast that also contains enzymes for glyoxylate pathways.
- 40. Shweta decided to track the number of chromosomes in a cell undergoing meiosis. If the cell started with 8 chromosomes during prophase I, what would be the number of chromosomes in each daughter nucleus at the end of meiosis I and meiosis II?

	End of meiosis I	End of meiosis II
A.	8	8
B.	4	8
C.	8	4
D.	4	4

41. Study the given metabolic actions of a hormone on different target, sites and select the correct option regarding it.



- A. It is the anabolic hormone secreted by the beta cells of heterocrine gland.
- B. It is the hormone secreted by alpha cells of pancreas.
- C. It is the hormone secreted by the anterior pituitary gland.
- D. It is the hormone secreted by the parafollicular (C) cells.
- 42. Refer to the given figure *X* and *Y* and select the correct option.

