

HOTS (Higher Order Thinking Skills)

Q. 1 Meena and Hari observed an animal in their garden. Hari called it an insect while Meena said it was an earthworm. Choose the character from the following which confirms that it is an insect.

- (a) Bilateral symmetrical body
- (b) Body with jointed legs
- (c) Cylindrical body
- (d) Body with little segmentation

Ans. (b)

Q. 2. You are provided with the seeds of gram, wheat, rice, pumpkin, maize and pea. Classify them whether they are monocot or dicot.

Ans. Monocots -wheat, rice, maize

Dicots gram, pumpkin, pea

Q. 3. Classify the following based on number of chambers in their heart: Rohu, Scoliodon, Frog, Salamander, Flying lizard, King Cobra, Crocodile, Ostrich, Pigeon, Bat, Whale.

Ans. Rohu, Scoliodon - 2-chambered.

Frog, Salamander, Flying lizard, King Cobra - 3-chambered.

Crocodile, Ostrich, Pigeon, Bat, Whale - 4-chambered.

Q. 4. Classify Rohu, Scoliodon, Flying lizard, King Cobra, Frog, Salamander, Ostrich, Pigeon, Bat, Crocodile and Whale into cold-blooded or warm-blooded animals.

Ans. Cold-blooded -Rohu, Scoliodon, Frog, Salamander, Flying Lizard, King Cobra, Crocodile.

Warm-blooded - Ostrich, Pigeon, Bat, Whale.

Q. 5. Match items of column (A) with items of column (B).

Column A	Column B
(a) Pore bearing animals	(A) Arthropoda
(b) Diploblastic	(B) Coelenterata
(c) Metameric segmentation	(C) Porifera
(d) Jointed legs	(D) Echinodermata
(e) Soft bodied animals	(E) Mollusca
(f) Spiny skinned animals	(F) Annelida

Ans. (a)-C; (b)-B; (c)-F; (d)-A; (e)-E; (f)-D

Q. 6. Match items of column (A) with items of column (B).

Column A	Column B
(a) Naked seed	(A) Angiosperms
(b) Covered seed	(B) Gymnosperms
(c) Flagella	(C) Bryophytes
(d) Marchantia	(D) Euglena
(e) Marsilea	(E) Thallophyta
(f) Cladophora	(F) Pteridophyta
(g) Penicillium	(G) Fungi

Ans. (a)-B; (b)-A; (c)-D; (d)-C; (e)-F; (f)-E; (g)-G