

### Topic :- Animal Kingdom

- 1 (b)  
Three types of nephridia are found in earthworm according to their location, namely the septal nephridia, pharyngeal nephridia and integumentary nephridia.
- 2 (c)  
Platyhelminthes exhibits organ level of organisation. Aschelminthes are pseudocoelomates
- 3 (d)
- | Order       | Example                |
|-------------|------------------------|
| Lepidoptera | <i>Butterfly</i>       |
| Hemiptera   | <i>Cimex</i> (bed bug) |
| Homoptera   | <i>Aphis</i> (aphid)   |
- 4 (a)  
The colony of *Physalia* is a massive type colony, containing many zooids. Among the zooids, a large cup-shaped float is seen, which is bright blue in colour and remains above the sea water normally. On the undersurface of float many gastrozooids, gonozooids and dactylozooids are present. The colony, thus, shows a very high degree of polymorphism (*i.e.*, existence of two distinctly different forms in a species).
- 5 (b)  
In tortoise (*Testudo*), class-Reptilia, phylum-Chordata, both exoskeleton and endoskeleton are found.
- 6 (a)  
In sponges, **choanocytes** are also known as collar cells.
- 7 (c)  
*Fasciola* or liverfluke, *Planaria* and *Taenia* or tapeworm are examples of animal that belonging to phylum-Platyhelminthes. *Wuchereria* of filarial worm is an example of phylum-Aschelminthes
- 8 (c)  
True segmentation is also called metamerism

- 9      **(b)**  
Crab, centipede and cockroach belongs to phylum-Arthropoda. These have jointed appendages and chitinous exoskeleton.
- 10     **(c)**  
Reptiles like snake, lizard have three and half chambered heart but exceptionally crocodile have four chambered heart.
- 11     **(c)**  
Typhlosolar region is a part of intestine, which runs from 27<sup>th</sup> segment upto 24 to 25 segments in front of the anus. In this part, the mid-dorsal wall of intestine is thrown into longitudinal fold called **typhlosole**, which increases the absorptive surface of the intestine.
- 12     **(d)**  
The bee humming bird is only 57 mm long. It is the smallest known bird
- 13     **(b)**  
Bidder's canal lies inside the kidney of male frog. Sperm from testes are carried into the Bidder's canal.
- 14     **(c)**  
In human larynx contains vocal cords, the sound producing elastic fibres called voice box. The sound producing organ in birds is syrinx.
- 15     **(c)**  
Nidology is the study of bird nests
- 16     **(b)**  
The 10<sup>th</sup> tergum of cockroach bears a pair of long tapering **anal cerci**. Each anal cercus is made of 15 segments.
- 17     **(d)**  
In flies and mosquito, metathorax bears a pair of small drumstick shaped or club-shaped processes called **halteres** or balancers.
- 18     **(b)**  
Phylum-Mollusca is the second largest phylum of animals. These are mostly aquatic, triploblastic, coelomate animals with organ system level of organisation.
- 19     **(a)**  
Tube feet are the soft, hollow, extensile and retractile appendages of echinoderms.

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**(d)**

Earthworm is hermaphrodite. Four pairs spermathecae are located in 6<sup>th</sup> to 9<sup>th</sup> segments (one pair in each segment). There are two pairs of testes present in 10<sup>th</sup> and 11<sup>th</sup> segment. One pair of ovaries is attached at the inter-segmental septum of the 12<sup>th</sup> and 13<sup>th</sup> segments. Two pairs of accessory glands are present one pair each in 17<sup>th</sup> and 19<sup>th</sup> segments and a pair of prostate glands in between 17<sup>th</sup> and 19<sup>th</sup> segments.

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<b>ANSWER-KEY</b>										
<b>Q.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>A.</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>a</b>	<b>b</b>	<b>a</b>	<b>c</b>	<b>c</b>	<b>b</b>	<b>c</b>
<b>Q.</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>A.</b>	<b>c</b>	<b>d</b>	<b>b</b>	<b>c</b>	<b>c</b>	<b>b</b>	<b>d</b>	<b>b</b>	<b>a</b>	<b>d</b>

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