

## ZOOLOGY

| Qn. No | Scoring Points   | Split score                         | Total score |
|--------|--|-------------------------------------|-------------|
| 1      | C  | 1                                   | 1           |
| 2      | a) Echinodermata<br>b) Any eg: from the phylum   | $\frac{1}{2}$<br>$\frac{1}{2}$      | 1           |
| 3      | a) Vision/Mosaic vision<br>b) Gap Junctions  | $\frac{1}{2}$<br>$\frac{1}{2}$      | 1           |
| 4      | a. Low $PO_2$ , high $PCO_2$ , high $H^+$ Concentration, high $p^H$<br>b. High $PO_2$ , low $PCO_2$ , Low $H^+$ , Low temperature  | 1<br>1                              | 2           |
| 5      | Pancreatic juice contains amylases, proteases and lipases that help in the digestion of starch, protein and lipid  | 2                                   | 2           |
| 6      | a. Ammonotelic / diffusion<br>b. Lizard - uricotelic<br>man - ureotelic  | 1<br>$\frac{1}{2}$<br>$\frac{1}{2}$ | 2           |
| 7      | Flora - Actual account of habitat or distribution of plants of a given area<br>Manual - Provides information for identification of names of species found in an area<br>Herbarium - Store house of collected plant specimens | 1 x 2                               | 2           |
| 8      | a) Excretion b) flight adaptation<br>c) locomotion d) excretion  | $\frac{1}{2} \times 4$              | 2           |
| 9      | Hepatic caecae - secretion of digestive juice<br>Crop - storage of food<br>Gizzard - grinding of food<br>Malpighian tubule - excretion   | $\frac{1}{2} \times 4$              | 2           |
| 10     | Any 4 relevant points  | $\frac{1}{2} \times 4$              | 2           |
| 11     | a) Collagen<br>b) Rubisco  | 1<br>1                              | 2           |
| 12     | a) Mollusca<br>b) any 2 features   | 1<br>2                              | 3           |
| 13     | a) A - Cartilage<br>B - Bone<br>b) any suitable features   | 1<br>2                              | 3           |
| 14     | a) SAN<br>b) Heart beat originate from the pacemaker<br>C) Arterio sclerosis   | 1<br>1<br>1                         | 3           |

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|---------------|--|--------------------|--------------------|
| 15            | a. Villus<br>b. Increases area of absorption<br>c. A - lacteal<br>B - Blood Capillary  | 1<br>1<br>1        | 3                  |
| 16            | i. Ciliary with explanation<br>ii. Flagellar with explanation<br>iii. Amoeboid with explanation  | 1 x 3              | 3                  |
| 17            | a) Binding of substrate to the active site of Enzyme →<br>ES complex →<br>Enz-product complex →<br>Enzyme releases the product<br>Enzyme is free<br>b) Temp, PH, substrate concentration | 2<br>1             | 3                  |
|               |  | <b>Total</b>       | <b>37</b>          |