

231/3

## MARKING SCHEME

| Question | Maximum <br> Score | Candidate's <br> Score |
| :---: | :---: | :---: |
| 1 | 13 |  |
| 2 | 12 |  |
| 3 | 15 |  |
| Total Score | $\mathbf{4 0}$ |  |

1. a) (i) Pisces; 1mk Rej Wrong spelling

Rej fish (pisces)

Rej pisces (fish)
(ii) Presence of scales; Presence of fins;
] Presence of lateral line; Presence of operculum; acc any first two (2 mks)
Note (ii) is tied (i)
b) (i) Streamlined; 1 mk
(ii) Reduces friction/resistance during locomotion/movements in water; (1 mk)
c) (i) $162 \mathrm{~mm} \pm 1 \mathrm{~mm}$; ( 1 mk )
(ii) $82 \mathrm{~mm} \pm \mathrm{mm}$; 1 mk
(1 mk)
(iii)
lengthoftailtoanus $\square 100$
Tail power $\square$;
lengthfromtailtomouth
$820 \mathrm{~mm} \square 100$
■50\% ;
(2 mks) 162 mm
d)


Pectoral fins and Pelvic fins ..... 2mksRj. Pectoral fin or pelvic fin
Correct spelling
(i) Dorsal fin, Anal fin and Tail fin 3 mks
2. (a) C-Hypocotyl 1mk

D - Cotyledon/ seed leaves 1 mk

E
Importance-protects the delicate tip/first leaf/foliage leaf (1mk)
(b)
(i) nodules/root nodules (1mk)
(i) Rhizobium/Rhizobia/Rhizobium bacteria rej. Bacteria alone. (1mk)
(iii) Symbiotic relationship in which bacteria gets protection and nutrients while the plant gets nitrogen in form of nitrates fixed by bacteria. (1mk)
(c) (i) Epigeal (1mk)
(ii) Hypocotyl elongates raising/ pulling cotyledons are brought out of the ground.
(d) Water

Oxygen;

Optimum temperature First two

3 (a) (i) Fruit 1 mk
(iii) - Has two scars
(iv) - Presence of pericarp 1 mk
(b) (i) 4 mks

## Drawing marks 2mks

D1 1mk - Proportionality- Seeds larger than placenta, Endocarp the largest size followed by Mesocarp and Epicarp the smallest

D2 1mk - Complete outline, thin continuous outline
-Seeds present
-Complete outline for placenta

## Labelling marks 2mks

Any 4 correctly labeled parts $\quad$ /2
-Complete labeling line
-Labeling line must touch the labeled part
-Correct spelling on the parts

- Labeling lines not crisscrossing
-No double naming( giving the same part different names)

(ii) Axile

1mk
(c) Animal
(d) - Seeds have hard/ slimy seed coats/ with mucus which prevent/ resist digestion/ make them indigestible

- Scented to attract animal/ dispersal by animal
- Succulent to attract/ so that it is edible/ can be eaten by animal 3mks
(e) (i) 2 drops (accpt from 1 to 4 drops) 1 mk
(ii) 8 drops (accpt from 1 to 10 drops) 1 mk
(ii) $\quad 2 / 8 \times 0.1 \%=0.025 \%$

The drops must be within stated ranges
(iii) - Period of storage of specimen E/ extent/ degree of ripening

- $\quad$ Size of drops
- Size of dropper
- Impurities 1mk

