

231/3

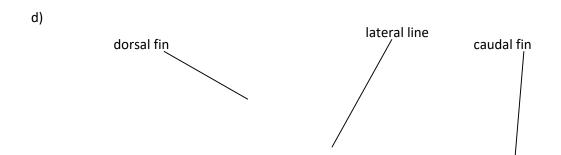
## **MARKING SCHEME**

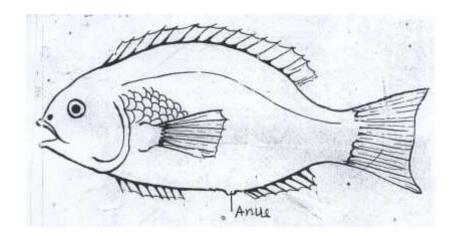
Question	Maximum	Candidate's
	Score	Score
1	13	
2	12	
3	15	
<b>Total Score</b>	40	

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

Rej pisces (fish)

(ii	) Pre	sence of scales;			
	Pre	sence of fins;			
]	Pre	sence of lateral line;			
		sence of operculum;	acc any first two		
(2 m	ıks)				
Note	<b>e</b> (ii) is t	ied (i)			
<b>b)</b> (i) Str	eamline	ed; 1mk			
(ii) Redu	ces fric	tion/resistance during locomo	otion/movements in w	ater;	(1 mk)
<b>c)</b> (i) 162	2mm ±1	.mm; (1 mk)			
(ii) 82mr	m ±mm	; 1mk			
			(1 mk)		
(ii	i)				
		lengthoftailtoanus□10	0		
T	ail pow	er 🛮 lengthfromtailtomouth	•		
		820 <i>mm</i> □100			
□50%;		(2 mks)	162 <i>mm</i>	П	





Pectoral fins and Pelvic fins

2mks

Rj. Pectoral fin or pelvic fin

Correct spelling

(i) Dorsal fin, Anal fin and Tail fin

3mks

1mk

D - Cotyledon/ seed leaves

1mk

Ε

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 get 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 1mk
(iii) - Has two scars
(iv) — Presence of pericarp 1mk
(b) (i) 4mks
Drawing marks 2mks
D1 1mk - Proportionality- Seeds larger than placenta, Endocarp the largest size followed by Mesocarp and Epicarp the smallest

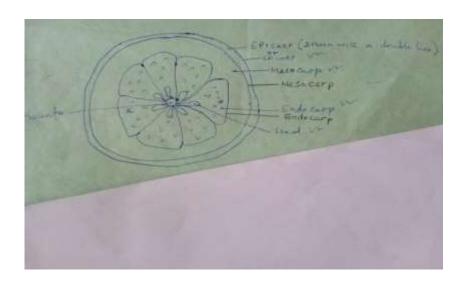
D2 1mk - Complete outline, thin continuous outline

- -Seeds present
- -Complete outline for placenta

## Labelling marks 2mks

Any 4 correctly labeled parts  $^4/_2$ 

- -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)



Magnifi	cation X <sup>1</sup> / <sub>2</sub> - X3 1mk
(ii) Axile	e 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) 1mk
	(ii) 8 drops (accpt from 1 to 10 drops) 1mk
(ii)	$^{2}/_{8}$ X 0.1% = 0.025% The drops must be within stated ranges
(iii)	<ul> <li>Period of storage of specimen E/ extent/ degree of ripening</li> <li>Size of drops</li> <li>Size of dropper</li> <li>Impurities</li> <li>1mk</li> </ul>