## FIRST YEAR HIGHER SECONDARY PRE MODEL EXAMINATION PART III

## BIOLOGY

## PART- A BOTANY

## **KEY**

FYCBTA22/3 Maximum score 30

FYCB	FYCBTA22/3 Maximum score 30				
Q.No	PART I	Split	Full		
		score	score		
1.	(d) Turnip	1	1		
2.	Pulvinus	1	1		
3.	Perianth	1	1		
4.	(b) Liliaceae	1	1		
5.	diadelphous	1	1		
6.	(c) K	1	1		
7.	A fruit is formed without fertilisation of the ovary	1	1		
8.	Stamens attached to the petals	1	1		
9.	It helps to get oxygen for respiration	1	1		
10.	It can be divided into two similar halves only in one particular vertical	1	1		
	plane				
	PART II				
11.	(a) Arrangement of flowers on the floral axis.	1			
	(b) Racemose and Cymose	1	2		
12.	Pinnately compound leaves—number of leaf lets are present on a	1			
	common axis called rachis. E.g. Neem		2		
	Palmately compound leaves—leaflets are attached to a common point	1			
	that is at the tip of petiole. E.g.Silk cotton				
13.		1/2			
	A Dicot plant B Monocot plant	1/2			
	Tap root system Fibrous root system	1/2	2		
	Pentamerous flower Trimerous flower	1/2			
14.	(a) The arrangement of veins and the veinlets in the lamina of leaf is	1			
	termed as venation.	1/2	2		
	(b) Reticulate and Parallel.	1/2			
15.	A. Root cap	1/2			
	B. Reagion of elongation	1/2			
	C. Root hairs	1/2	2		
	D. Region of maturation	1/2			
16.	Pulses (gram, arhar, sem, moong, soyabean				
	Edible oil (soyabean, groundnut)	1			
	Dye (Indigofera);		2		
	Fibres (sunhemp)	1			
	Fodder (Sesbania, Trifolium),				
15	Ornamentals (lupin, sweet pea); medicine (muliathi). [Any 2]	1./			
17.	(a) Fabaceae	1/2			
1.0	(b) 1. Standered petal 2.wing petals 3.keel petal	11/2	2		
18.	(a) Prop roots for support	1			
	(b) Stilt roots for support	1	2		
	ı	1			

			1
19.	Phyllotaxy is the pattern of arrangement of leaves on the stem or branch.  (b) Alternate, opposite and whorled.	½ ½ x 3	2
20	a. Stem/ axillary bud modification b. Leaf modification	1 1	2
	PART III		
21.	<ul> <li>(a) A. Epicarp</li> <li>B. Mesocarp</li> <li>(b) It develops from monocarpellary superior ovaries and is one seeded.</li> <li>(c) Fruit wall is called pericarp.</li> </ul>	1/2 1/2 1	3
22.	a) Solanaceae $\bigoplus \overrightarrow{Q}^T K_{(5)} \ \overrightarrow{C}_{(5)} \ \overrightarrow{A}_5 \ \underline{G}_{(2)} $ b) Teachers	1 2	3
23.	(a) The arrangement of ovules within the ovary  (b) (a) Axile placentation (b) Basal placentation (c) Parietal placentation (d) Free central placentation	1 1/2 1/2 1/2 1/2 1/2	3
24.	<ul> <li>(a) A. Hypogynous B. Perigynous C. Epigynous</li> <li>(b) A.Hypogynous flower- ovary superior</li> <li>B. Perigynous- ovary half inferior/ half superior</li> <li>C. Epigynous ovary half inferior</li> </ul>	1 ½ ½ ½ ½ ½ ½	3
25	(a) A. aleurone layer B. endosperm C.scutellum D. coleorhiza (b) scutellum	½ x 4 1	3