NEET/PMT

BIOLOGY TEST PAPER

MORPHOLOGY OF FLOWERING PLANTS, ANATOMY OF FLOWERING PLANTS DATE: 13/3/2021

1.	Which is the correct pair for edible part? (i) Tomato – Thalamus (ii) Maize – Cotyledons				
	(iii)	Guava – Mesocarp	(iv) Date palm – pericarp		
2.	What (i)	is the eye of potato? Axillary bud	(ii) Accessory bud		
	(iii)	Adventitious bud	(iv) Apical bud		
3.	Juicy l (i)	nair – like structures o Exocarp	served in the lemon fruit develops from (ii) Mesocarp		
	(iii)	Endocarp	(iv) Mesocarp and endocarp		
4.	Which (i)	of the following repro Endocarp	sents the edible part of the fruit of litchi? (ii) Pericarp		
	(iii)	Juicy aril	(iv) Mesocarp		
5.	Pineapple (ananas) fruit develops from (i) A unilocular polycarpellary flower (ii) A multipistillate syncarpous flower (iii) A cluster of compactly borne flowers on a common axis (iv) A multilocular monocarpellary flower In which of the following fruits is the edible part the aril? (i) Custard apple (ii) Pomegranate				
	(iii) (Orange	(iv) Litchi		
7.	Long (i)	filamentous threads p Anthers	otruding at the end of a young cob of maize are (ii) Styles	!	
	(iii)	Ovaries	(iv) Hairs		
3.	Cotyle (i)	edons and testa respec Cashew nut and litch	tively are edible parts in i (ii) Groundnut and pomegranate		
	(iii)	Walnut and tamaring	(iv) French bean and coconut		
9.	A fruit (i)		nthodium inflorescence is called? ii) Hesperidium		
	(iii)	Sorosis	iv) Syconus		
10.	Ovary (i)	is half – interior in the Cucumber (flower of i) Guava		

	(iii)	Plum	(iv) Brinjal
11.		h one of the follow and succulent stru Casuarina	ring is a xerophytic plant in which the stem is modified into a flat, ucture ? (ii) Hydrilla
	(iii)	Acacia	(iv) Opuntia
12.	The ' (i)	Eyes' of the potato Root buds	tuber are (ii) Flower buds
	(iii)	Shoot buds	(iv) Axillary buds
13.	Flowe	ers are zygomorphi Mustard	c in (ii) Gulmohur
	(iii)	Tomato	(iv) Datura
14.	A dru (i)	pe develops in Mango	(ii) Wheat
	(iii)	Pea	(iv) Tomato
15.	Swee (i)	t potato is homolo Turnip	gous to (ii) Potato
	(iii)	Colocasia	(iv) Ginger
	5. Which one of the following pairs is wrongly matched while the remaining three are correct? (i) Agave – Bulbils (ii) Grass – Runner (iii) Water hyacinth – Runner (iv) Bryophyllum – Leaf buds 7. Vexillary aestivation is characteristic of the family (i) Solanaceae (ii) Brassicaceae		
	(iii)	Fabaceae	(iv) Asteraceae
18.	Phyllo (i)	ode is present in Australian Acacia	a (ii) Opuntia
	(iii)	Asparagus	(iv) Euphorbia
19.	Cymc (i)	ose inflorescence is Trifolium	present in (ii) Brassica
	(iii)	Solanum	(iv) Sesbania
20.	The g (i)	ynoecium consists Papaver	of many free pistils in flowers of (ii) Michelia
	(iii)	Aloe	(iv) Tomato

21.	Among bitter gourd, mustard, brinjal, pumpkin chinarose, lupin, cucumber, sunnhemp, gram, guava, beanchilli, plum, petunia, tomato, rose, withania, potato, onion, aloe and tulip how many plants have hypogynous flower? (i) Eighteen (ii) Six			
	(iii)	Ten	(iv) Fifteen	
22.	An ex (i)	ample of edible und Sweet potato	erground stem is (ii) Potato	
	(iii)	Carrot	(iv) Groundnut	
23.	When the margins of sepals or petals overlap one another without any particular direction, the condition is termed as (i) Twisted (ii) Valvate			
	(iii)	Vexillary	(iv) Imbricate	
	24. Aggregate fruit develops from (i) Multicarpellary, apocarpous ovary (ii) Multicarpellary ovary (iii) Multicarpellary, syncarpous ovary (iv) Monocarpellary ovary 25. Flowers are unisexual in			
	(i)	Cucumber	(ii) China rose	
	(iii)	Onion	(iv) Pea	
	6. Function of companion cells is to (i) Provide energy to sieve elements for active transport (ii) Provide water to phloem (iii) Loading of sucrose into sieve elements by passive transport (iv) Loading of sucrose into sieve elements			
	 (i) Are surrounded by pericycle but no endodermis (ii) Are capable of producing secondary xylem and phloem (iii) Possess conjuctive tissue between xylem and phloem (iv) Are not surrounded by pericycle 			
28.	 Which sequence correctly illustrates the arrangement of layers from outside to inside in a dic stem? (i) Hypodermis → Endodermis → Pericycle → Phloem → Xylem (ii) Endodermis → Hypodermis → Pericycle → Xylem → Phloem (iii) Hypodermis → Endodermis → Pericycle → Xylem → Phloem (iv) Endodermis → Hypodermis → Pericycle → Phloem → Xylem 			
29.	29. Epidermis is the surface covering of a plant body. Which of the following functions is not performed by the epidermis? (i) Protecting the plant from mechanical injury (ii) Protecting the plant from invasion by pathogens (iii) Preventing the loss of water from the plant, along with the cuticle (iv) Preventing the exchange of gases between the plant and environment			

30.	Dicot (i)	stem differs from dicor Presence of cortex		ii) Absence	of endodermis
	(iii)	Absence of pericycle		(iv) Position	of protoxylem
31.	• •	ll conduction of water t Hill bunt		ру	
	(iii)	Leaf curl	(iv) Bacteri	al blight	
32.	The c	ommon bottle cork is a Dermatogen	product of (ii) Phello		
	(iii)	Xylem	(iv) Vascula	r cambium	
33.	Comp (i)	panion cells are closely Sieve elements		with el elements	
	(iii)	Trichomes	(iv) Gua	ard cells	
34.	For a	critical study of second Wheat and maiden		-	hich one of the following pairs is suitable? rcane and sunflower
	(iii)	Teak and pine		(iv) Deoc	lar and fern
35.	Whic (i)	h one of the following i Pollen exine		o enzyme ac Leaf cuticle	tion?
	(iii)	Cork	(iv	v) Wood fibr	e
	(i) (ii) (iii) (iv)	ength of different inter Size of leaf lamina a Intercalary meristen Shoot apical meriste Position of axillary b Ilar tissues in flowering Periblem	t the node k n em ouds	pelow each in	rcane is variable because of nternode
	(iii)	Phellogen	(iv) Plero	ome	
38.	Palisa (i)	ade parenchyma is abse Gram	ent in leaves (ii) Sorghi		
	(iii)	Mustard	(iv) Soybe	ean	
39.		nnular and spirally thic the root or stem is Differentiating	kened cond (ii) Mat	_	ents generally develop in the protoxylem
	(iii)	Elongating	(iv) Wid	dening	
40.	Heart (i)	twood differs from sapv Presence of rays and			(ii) Absence of vessels and parenchyma
	(iii) patho	Having dead and non- ogens	conducting	elements	(iv) Being susceptible to pests and
41.	Whic (i)	h one of the following i Intrafascicular camb			? fascicular cambium

	(iii)	Phellogen	(i	v) Intercalary meristem
42. The cork cambium, cork and secondary cortex are collectively called (i) Phellem (ii) Phelloderm			are collectively called	
	(iii)	Phellogen (iv) Periderm	
43.	Gym (i)	nosperms are also called so Thick – walled tracheid	•	natophytes because they lack ylem fibres
	(iii)	Cambium	(iv) Pl	nloem fibres
44.	Wate (i)	er containing cavities in vas Cycas	cular bundles a (ii) Pinus	are found in
	(iii)	Sunflower	(iv) Maize	
45.	Close (i)	ed vascular bundles lack Cambium	(ii) Pith	
	(iii)	Ground tissue	(iv) Conjunctiv	ve tissue
46.	Com (i)	panion cells are closely ass Trichomes	ociated with (ii) Guard cells	5
	(iii)	Sieve elements	(iv) Vessel ele	ments
47.	Inter (i)	fascicular cambium develo Medullary rays	ps from the cel (ii) Xylem pa	
	(iii)	Endodermis	(iv) Pericycl	e
48.	Age (i)	of a tree can be estimated Its height and girth	by (ii) Bioma	ss
	(iii)	Number of annual rings	(iv) Diam	eter of its heartwood
49.	Trach (i)	neids differ from the trache Having casparian strips	•	n imperforate
	(iii)	lacking nucleus	(iv) Being	g lignified
50. You are given a fairly old piece of dicot stem and a dicot root. Which of the followin structure will you use to distinguish between the two?(i) Secondary xylem (ii) Secondary phloem				he two?
	(iii)	Protoxylem	(iv) Cortic	al cells
51.	 Vascular bundles in monocotyledons are considered closed because (i) Xylem is surrounded all around by phloem (ii) A bundle sheath surrounds each bundle (iii) Cambium is absent (iv) There are no vessels with perforations 			
52.	(iv) In a r	ring girdled plant	an periorations	
	(i)	Neither root nor shoot	will die	(ii) the shoot dies first

(iv) the shoot and root die together

(iii) The root dies first

