General Science Model Test Questions 36 With Answers [Botany - 7]

1.	Apple is a			
	(A) False fruit	(B) True fruit	(C) Multiple fruit	(D) Simple fruit
2.	Non-flowering lower pl	ants are studied unde	r	
	(A) Morphology	(B) Microbiology	(C) Ecology	(D) Economic botany
3.	Ancestors of vascular p	lants are		
	(A) Yeast	(B) Gnetum	(C) Chara	(D) Adiantum
4.	A vascular plant is			
	(A) Adiantum	(B) Chara	(C) Penicillium	(D) Yeast
5.	Which resembles dicot	yledoneus plant?		
	(A) Polytirichum	(B) Penicicillium	(C) Gnetum	(D) Adiantum
6.	The seed contain three	coats in		
	(A) Paddy	(B) Wheat	(C) Gnetum	(D) Polytrichum
7.	Which of the following	substances is abundar	ntly present in the middle	lamella of cells?
	(A) Silica	(B) Pectin	(C) Cutin	(D) Lignin
8.	Protoplasm found insid	e the nucleus is know	n as	
	(A) Nucleoplasm	(B) Amyloplast	(C) Elaioplast	(D) Cytoplasm
9.	The example of saprop	hyte is		
	(A) Nepenthes	(B) Utricularia	(C) Dionaea	(D) Monotropa
10.	Which of the following	is an example of insec	tivorous plant?	
	(A) Brassica	(B) Cuscuta	(C) Mucor	(D) Nepenthes
11.	Some plants are called	"insectivorous" plants	because	
	(A) All insects eat these	plants (B) T	hey catch insect for food	
	(C) They are herbivorou	us (D) A	ppearance of the plants a	re like insect
12.	Top layer of pond wate	ris		
	(A) Epilimnion	(B) Thermocline	(C) Hypolimnion	(D) Eurythermal
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13. Match List I with List II correctly and select your answer using the codes given below:

List II

List I

(a) Genetics

1. Study of fungi

(b) Cytology

- 2. Study of bacteria
- (c) Mycology

- 3. Study of cells
- (d) Bacteriology
- 4. Study of heredity

Codes:

- d а
- (A) 1 2 3 4
- (B) 4 2 1
- (C) 2 4 3
- (D) 2 4 3 1
- 14. The plant which possesses "anticancerous activity" is
 - (A) Seetha
- (B) Polylthia
- (C) Teak
- (D) Murungai
- The marine algae commercially exploited for the production of "agar" is 15.
 - (A) Sargassum
- (B) Gracilaria
- (C) Laminaria
- (D) Caulerpa
- 16. Match List I with list II correctly and select your answer using the codes given below:

List I List II

- (a) Banana tree
- 1. Ornamental purpose
- (b) Acacia tree
- 2. Festival purpose

(c) Teak tree

- 3. Fuel purpose
- (d) Polyalthia tree

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4. Timber purpose

Codes:

(A)

b d a С

2

4

- 1
- (B) 3 2 4 1
- (C) 3 4 2 1
- (D) 2 3 4 1

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17.	Traditional medicinal plant used for the treatment of "Jaundice" in Tamil Nadu is								
	(A) Mango	(B) Ara	asu	(C) Vembu	(D) Keelanalli				
18.	Which of the f	ollowing is the c	hief compone	ent of fungal cel	I wall?				
	(A) Mucopolys	(A) Mucopolysaccharide							
	(C) α – D- Gluc	copyranose	(D)	None of these					
19.	Which of the f	ollowing is corre	ctly matched	?					
	(A) Maltose –	Maltose – Disaccharides		(B) Fructos	e – Hexose sugar				
	(C) Cellulose –	Structural polys	accharide	(D) All of ti	nese				
20.	Natural lipids	are readily solub	le in						
	(A) Oil	(B) Water	(C)	Mercury	(D) None of these				
21.	The number o	f ATP molecules	yielded from	2 NADH ₂ molec	ule is				
	(A) 3	(B) 4	(C) 6	(D) 12					
22.	Consider the f	ollowing stateme	ents:						
	Assertion (A):	Nitrogen plays a	n important r	ole in growth, n	netabolism, heredity and respiration				
	Reason (R) : It	suppressed form	nation of flow	vers					
	Now select yo	ur answer accord	ding to the co	oding scheme giv	ven below:				
	(A) Both (A) a	nd (R) are true, a	and (R) is the	correct explana	ation of (A)				
	(B) Both (A) ar	nd (R) are true, b	ut (R) is not t	he correct expla	nation of (A)				
	(C) (A) is true,	but (R) is false							
	(D) (A) is false,	, but (R) is true							
23.	Consider the f	ollowing stateme	ents:						
	Assertion (A): shoots"	The primary phy	siological effe	ects of auxin in p	plants is to stimulate the "elongation of cells in				
	Reason (R): Do	ormancy of buds	can be broke	n by auxin treat	ment.				
	Now select yo	ur answer accord	ding to the co	oding scheme giv	ven below:				
	(A) Both (A) a	nd (R) are true, a	and (R) is the	correct explana	ation of (A)				
	(B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)								

	(C) (A) is true, but (R) is false								
	(D) (A) is false, but (R) is true								
24.	Consider the following statements:								
	Assertion (A): Green ve	egetable, soyabe	an oil, tomatoes etc. are	chief sources of vitamin K					
	Reason (R) : Vitamin K	prevents erosion	n of the skin in higher an	imals.					
	Now select your answe	er according to th	he coding scheme given	below:					
	(A) Both (A) and (R) ar	e true, and (R) is	s the correct explanation	n of (A)					
	(B) Both (A) and (R) are	e true, but (R) is	not the correct explanat	ion of (A)					
	(C) (A) is true, but (R) is	s false							
	(D) (A) is false, but (R)	is true							
25.	The cell responsible fo	r fixing atomosp	heric nitrogen in blue gro	een algae is					
	(A) Akinetes (B) He	terocysts	(C) Aplanospores	(D) Parthenospores					
26.	The synthesis of glucos	se from fat is call	led						
	(A) Glycolysis	(B) T.C.A.	(C) Glyconeogenesis	(D) Saponicication					
27.	A rough endoplasmic r	ecticulum specia	ally developed in cell eng	ages in					
	(A) Nucleotide synthes	is	(B) Protein Synthesis						
	(C) Lipid synthesis		(D) Starch synthesis						
28.	Krebs cycle takes place	: in							
	(A) Chloroplast	(B) Peroxisome	es (C) Mitochond	ria (D) Cytoplasm					
29.	Lysosome is also know	n as							
	(A) Suicidal bags		(B) Powerhouse of the	cell					
	(C) Chondriosome		(D) Dictyosome						
30.	In plants, respiration to	akes place							
	(A) During day only		(B) During night only						
	(C) All the 24 Hours		(D) At dusk						
31.	Respiration is a/an	process							

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- 32. Anaerobic respiration takes place in
 - (A) Ribosome (B) Nucleus (C) Cytoplasm (D) Vacuole
- 33. In which process oxygen is directly used?
 - (A) Glycolysis (B) Fermentation (C) Kreb's cycle (D) Electron transport
- 34. The living part of a cell is called
 - (A) Cell wall (B) Protoplasm (C) Hyaloplasm (D) Cell sap
- 35. Every living cell has a
 - (A) Membrane (B) Food vacuole (C) Choloplast (D) Cell wall
- 36. One micron is equal to
 - (A) 1/1000 mm (B) 1/1000 Å (C) 1/1000 m.micron (D) 1/1000 cm
- 37. Glycolysis take place in
 - (A) Cytoplasm (B) Mitochondria (C) Vacuoles (D) Chloroplast
- 38. Select the correct sequence of food chain:
 - (A) Cattle \rightarrow Grass \rightarrow Man (B) Grass \rightarrow Man \rightarrow Cattle
 - (C) Grass \rightarrow Cattle \rightarrow Man (D) Man \rightarrow Cattle \rightarrow Grass
- 39. The pathogen of citrus canker is
 - (A) Xanthomonas citri (B) Tobacco mosaic virus
 - (C) Albugo candida (D) Leptospira
- 40. Pick the odd one out
- (A) Berry (B) Capsule (C) Drupe (D) Pepo
- 41. Match List I with list II correctly and select your answer using the codes given below:

List I List II

- (a) Perianth 1. Accessory whori
- (b) Calyx(c) Gynoecium(d) Valvate2. Monocot3. Annona4. Carpel

Codes:

a b c d

(A) 2 1 4 3

(B) 4 3 1 2

(C) 2 3 1 4

(D) 2 3 4 1

42. Pick the odd one out

(A) Carpel (B) Stamen (C) Ovule (D) Petal

43. Which of the following is a complex tissue?

(A) Pholem (B) Parenchyma (C) Collenchyma (D) Chlorenchyma

44. The branch of botany which deals with the study of fungi is called

(A) Mycology (B) Cytology (C) Microbiology (D) Algology

45. Pollination by animal is known as

(A) Anemophily (B) Omithopily (C) Entemophily (D) Zoophily

46. After fertilization the integument develops into

(A) Seed coat (B) Endosperm (C) Micropyle (D) Raphe

47. The yellowing of leaf is caused by the deficiency of

(A) Fe (B) Cu (C) Co (D) Zn

48. Properties of histone proteins found in nuclei of eukaryotes are

(A) Acidic (B) Basic (C) Neutral (D) Amphoteric

49. Chlorophyll is soluble in

(A) Organic solvents

(B) Inorganic solvents

(C) Organic solvents and inorganic solvents

(D) None of these

50. In plants the gas released during respiration is

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	(A) Oxygen	(B) Carbon dioxide	(D) Sulphur dioxide	(D) Ammonia				
51.	In a bacterial c	ell, the site of respiration	n is					
	(A) Protoplasm	nic membrane	(B) Centrosome					
	(C) Chondrison	ne	(D) Mitochondrion					
52.	Receptors in ce	ell membrane are						
	(A) Carbohydra	ates (B) Proteins	(C) Nucleic Ac	ids	(D) Lipids			
53.	The bacteria re	esponsible for nitrogen fi	xation is found in the ro	oot of				
	(A) Grass	(B) Citrus plant	(C) Legumino	us Plant	(D) Neem tree			
54.	Gobar gas cont	tain						
	(A) Methane	(B) Methane ar	nd ethane (C) Et	hane	(D) Petrol gas			
55.	Which of the fo	ollowing is odd one in ph	loem tissue?					
	(A) Sieve tube	(B) Companion	cell (C) Ph	loem fibre	(D) Wood fibre			
56.	The type of sex	kual reproduction that ta	kes place in spirogyra is	5				
	(A) Frangment	ation (B) Sporulation	(C) conjugation	on (D) Fis	sion			
57.		dom is divided into two r	najor divisions					
	The plant king	doili is divided liito two i						
		nd dicot plants	(B) Bryophytes and pt	eridophytes				
	(A) Monocot a							
58.	(A) Monocot a (C) Cryptogam	nd dicot plants	(B) Bryophytes and pt (D) Aquatic and terres	trial				
58.	(A) Monocot a (C) Cryptogam	nd dicot plants	(B) Bryophytes and pt (D) Aquatic and terres	trial				
58. 59.	(A) Monocot and (C) Cryptogam In the vascular (A) Exarch	nd dicot plants s and phanerogams bundle the protoxylems	(B) Bryophytes and pt (D) Aquatic and terres pointing towards the c	trial entre are called				
	(A) Monocot and (C) Cryptogam In the vascular (A) Exarch Consider the form	nd dicot plants s and phanerogams bundle the protoxylems (B) Endarch	(B) Bryophytes and pt (D) Aquatic and terres pointing towards the c (C) Tetrarch	trial entre are called				
	(A) Monocot and (C) Cryptogam In the vascular (A) Exarch Consider the form. I. Xylem vessel	nd dicot plants s and phanerogams bundle the protoxylems (B) Endarch ollowing statements:	(B) Bryophytes and pt (D) Aquatic and terres pointing towards the c (C) Tetrarch	trial entre are called				
	(A) Monocot and (C) Cryptogam In the vascular (A) Exarch Consider the form I. Xylem vessel II. Xylem vessel	nd dicot plants s and phanerogams bundle the protoxylems (B) Endarch ollowing statements: s are seen in angiosperm	(B) Bryophytes and pt (D) Aquatic and terres pointing towards the c (C) Tetrarch	trial entre are called				
	(A) Monocot and (C) Cryptogam In the vascular (A) Exarch Consider the form. I. Xylem vessel III. Xylem vessel IIII. Xylem vessel	nd dicot plants is and phanerogams bundle the protoxylems (B) Endarch ollowing statements: s are seen in angiosperm ils are not seen in gymno els are conduction H ₂ O els are giving strength to	(B) Bryophytes and pt (D) Aquatic and terres pointing towards the c (C) Tetrarch	trial entre are called				

(C) I, III, IV are correct (D) All are correct

60. Consider the following statements:

Assertion (A): Fungi get nourishment from the substratum

Reason (R): Fungi secrete digestive enzyme on the substratum

Now select your answer according to the coding scheme given below:

- (A) Both (A) and (R) are true, and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (C) (A) is true, but (R) is false
- (D) (A) is false, but (R) is true
- 61. Which one of the following is correctly matched?
 - (A) Simple cyme Musa
- (B) Cyathium Euphorbia
- (C) Simple receme Hibiscus
- (D) Spadix Crotalaria
- 62. Match List I with List II correctly and select your answer using the codes given below:

List I	List II
(a) Telocentric	1. Rod shape with two arms
(b) Acrocentric	2. L shape
(c) Metacentric	3. Rod shape with single arm
(d) Submentacentric	4. V shape

Codes:

b d a (A) 3 (B) 3 2 (C) 2 1 3 2 2 (D) 1 4 3

- 63. Gregor mendel did hybridization experiment in
 - (A) Pisum sativum
- (B) Drosophilla
- (C) Rabbits
- (D) Moths
- 64. The plants which can breakdown cyanide and reduce it to a non-toxic form are

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	(A) Gibberella fusarium			(B) Xerophytes				
	(C) Pseudomonas		(D) Yea	(D) Yeast				
65.	Who was awa	rded Nob	el Prize for the i	nvention of dark reaction?				
	(A) Melvin cal	vin	(B) Carnar		(C) Allart		(D) Krebs	
66.	The organism	which cau	uses citrus canke	er is				
	(A) Bacterium		(B) Fungi		(C) Virus		(D) Hookworm	
67.	Select the inco	rrect one	::					
	(A) Berry		(B) Capsule		(C) Drupe		(D) Peppo	
68.	The most abur	ndant gre	enhouse gas is					
	(A) CH ₄	(B) NO ₂	(C) SO ₂		(D) CO ₂			
69.	Good plant so	urces of c	holine are					
	(A) Yeast		(B) Mushroom		(C) Green leave	es	(D) Cereal grains	
70.	Ornithophily r	efers to						
	(A) Pollination	through	wind	(B) Pol	lination through	birds		
	(C) Pollination	by insect	S	(D) Dis	persal of seeds b	y wind		
71.	Indentify the o	chemosyn	thetic bacteria a	among t	he following:			
	(A) Rhizobium		(B) Clostridium		(C) Nitrobacter	•	(D) Beggiatoa	
72.	The removal o	f water fr	om the plants in	n the for	rm of liquid drop	lets is		
	(A) Guttation		(B) Transpiration	on	(C) Transductio	n	(D) Transformation	
73.	"Sirentin" is a	sex horm	one produced b	У				
	(A) Alga	(B) Fun	gus	(C) Lich	nen	(D) Ba	cterium	
74.	Which one of	the follow	ving is a total ste	em para	site?			
	(A) Cuscuta		(B) Drosera		(C) Viscum		(D) Vanda	
75.	The plant which	ch was su	ccessfully used i	in the pr	oduction of edib	le vacci	ne is	
	(A) Pea	(B) Mar	ngo	(C) pot	tato	(D) Cal	bbage	
76.	Identify the ch	aracterist	tic feature of a p	orokaryo	otic cell:			

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	(A) Presence of cell wall		(B) Presence of 80s Ribosome					
	(C) Absence of genetic material		(D) Pre	(D) Presence of 70s ribosome				
77.	During respiration the	oxidative phosph	orylatio	n takes	place in			
	(A) Matrix of chloroplas		(B) Matrix of mitochondrion					
	(C) Inner membrane of	mitochondrion		(D) Gra	na of chloroplas	t		
78.	Mitochondria are prese	ent in all cells, ex	cept					
	(A) Yeast	(B) Bacteria		(C) Fun	gi	(D) Algae		
79.	The plant group which	yields 'Taxol' bel	ongs to					
	(A) Bryophyte	(B) Gymnosper	m	(C) Pte	ridophyte	(D) Lichen		
80.	Alga used for hydrocar	bon production i	S					
	(A) Gracilaria	(B) Chlorella		(C) Bot	ryococcus	(D) Sargassum		
81.	The law which is based	upon the Dihybi	rid cross	is				
	(A) Law of dominance		(B) Law	(B) Law of Segregation				
	(C) Law of Independen	t Assortment	(D) Law	of Puri	ty of gametes			
82.	The ration of dihybrid of	cross is						
	(A) 1:2:1	(B) 3:1	(C) 1 : 1	L	(D) 9:3:3:1			
83.	Which unicellular alga	was first used for	r photos	ynthetic	studies?			
	(A) Chlorella vulgaris		(B) Chla	amydon	nonas vulgaris			
	(C) Spirulina vulgaris		(D) Volwax vulgaris					
84.	Identify the insectivoro	ous plants(s):						
	I.Nepenthes	II. Drosera		III. Van	da	IV. Cuscuta		
	Of these:							
	(A) I alone is correct		(B) I an	d II are	correct			
	(C) I, II and III are corre	ct	(D) All a	are corre	ect			
85.	Which of the following	is/are true for m	angrove	forest?				
	I. Presence of pneumatophore							

	II. Viviparous germination									
	III. Presence of salt secreting glands									
	IV. Presence of	aerench	nyma in leaves							
	Of these:									
	(A) I alone is correct (B) I and II are correct									
	(C) I, II and III a	re corre	ct	(D) All a	are corre	ect				
86.	What are the u	ınits of p	hotosynthesis fo	ound insi	de the g	rana of chloro	olasts?			
	(A) Cristae	(B) Thy	lakodis	(C) Gra	na	(D) Quantasor	mes			
87.	If the sequence complementar			of DNA is	ATGAC	TGTC, then the	sequence of bases in its			
	(A) TACTGACA	G	(B) TUCTGUCTA	Ą	(C) GUA	AGTAGA	(D) TGACGATGA			
88.	The term 'Bino	minal no	omenclature' was	s coined	by					
	(A) Aristotle		(B) Curier		(C) Linr	naeus	(D) Lamarck			
89.	What is acetob	ularia?								
	(A) Single – cel	led fung	us	(B) Mul	lti – celle	ed fungus				
	(C) Single – cel	led alga		(D) Mu	lti – celle	ed alga				
90.	Agrostology is	the stud	y of							
	(A) Grasses		(B) Fruits		(C) Flow	vers	(D) Dry fruits			
91.	What is the oth	ner name	e of the dictyoso	mes of p	olant cell	s?				
	(A) Ribosomes		(B) Lysosomes		(C) Gol	gi Bodies	(D) Polysomes			
92.	Which of the p	lant grou	ups is called "nor	n-vascula	ar crypto	ogams"?				
	(A) Pteridophy	tes	(B) Bryophytes		(C) Gyn	nnosperms	(D) Angiosperms			
93.	What is the bo	tanical n	ame of the talles	st tree of	f the wo	rld?				
	(A) Pterocarpu	s albus		(B) Terr	minalia d	catapa				
	(C) Sequoia ser	mpervire	ens	(D) San	talum se	empervirens				
94.	Which of the following are called 'suicidal bags'?									

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	(A) Nucleoli	(B) Mitochondri	a	(C) Centrosomes	(D) Lysosomes			
95.	Water conducting tissue in plants is							
	(A) Xylem	(B) Sclereids		(C) Phloem	(D) Collenchyma			
96.	Glycolysis is the conversion of							
	(A) Glucose to glycoge	า	(B) Glyd	cogen to glucose				
	(C) Glucose to pyruvic	acid	(D) Glu	cose to citric acid				
97.	Protoplasm is the 'Phys	sical basis of life' v	was said	d by				
	(A) Dujardin	(B) Schwann		(C) Huxley	(D) Watson			
98.	ATP is							
	(A) An enzyme which b	rings about oxida	tion					
	(B) A molecule which o	contains high ene	rgy pho	osphate bonds				
	(C) A hormone							
	(D) A protein							
99.	In annual plant, exchar	nge of gases takes	place n	nainly through				
	(A) Stomata	(B) Stem		(C) Leaf scars	(D) Lenticels			
100.	DNA is made up of							
	(A) Sugar	(B) Ribose		(C) Amino acid	(D) Nucleotides			