1.

# General Science Model Test Questions 4 With Answers [Botany - 3]

11. Learniı	"Ikebana" pertains to ng Leads To Ruling			Page 1 of 13				
	(A) Chlorella	(B) Bacteria	(C) Yeast	(D) Blue green algae				
10.	Sewage treatment is ca	rried out with the	help of					
	(C) The root of the fossi	l ([	(D) The reproductive part of a fossil					
	(A) The leaf of the fossi	(E	(B) The stem of the fossil					
9.	If the genetic name of the fossil plant ends with "Dendron" or "xylon" it denotes							
	(A) peziza	(B) agaricus	(C) puccinia	(D) Aspergillus				
8.	The fruiting body name	ly, cleistothecium	is formed in					
	(A) Nymphaea	(B) Hydrilla	(C) Vallisneria	(D) None of these				
7.	In which plant are scler	iods abundant?						
	(A) Cephaleuros	(B) Chlorella	(C) Spirogyra	(D) Chara				
6.	The parasitic algae is							
	(D) Chloroplast – Hill reaction							
	(C) Chromosomes – Vehicles of heredity							
	(B) Mitochondria – Production of energy							
	(A) Golgi complex - Breakdown of complex molecules							
5.	Which one of the follow	ving is not a correc	t pair in relation to fu	inction?				
	(A) Mycobacteria	(B) Fungi	(C) Algae	(D) Cyanobacteria				
4.	Mycoses are diseases ca	aused by						
	(A) 70 lakhs	(B) 1 million	(C) 5 lakhs	(D) 15 lakhs				
3.	The number of dry plan	ts in the herbaria f	found in the Indian Bo	otanical Garden at Kolkata is about				
	(A) Penicillin	(B) Terramycin	(C) Aureomyci	n (D) All of these				
2.	Which of these is an an	tibiotic?						
	(A) Banana	(B) Guava	(C) Citrus	(D) Grape				
1.	An example of a Hesperidium is							

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	(A) Leaf arrangement		(B) Floral arrangement					
	(C) Plant arrangement		(D) None of these					
12.	The bacterium which liv	ves in the humar	n intestir	intestine is				
	(A) Clostridium	(B) E.Coli		(C) Cocci	(D) Rhizobium			
13.	The first to isolate a pla	nt virus is						
	(A) W.M.Stanley	(B) K.M.Smith		(C) E.C.Stockmann	(D) Iwanosky			
14.	National botanical rese	arch institute is	situated	at				
	(A) Delhi	(B) Kolkata		(C) Coimbatore	(D) Lucknow			
15.	In plants, the radial trai	nsport of food, w	vater and	d mineral salts is perforr	ned by			
	(A) Medullary rays		(B) Vas	cular cambiums				
	(C) Pith		(D) Secondary phloem					
16.	Grafting cannot be prac	cticed in monoco	tyledon	ous plants because they				
	(A) Have very thin tissu	e	(B) Do	not have cambium				
	(C) Have many vascular	bundles	(D) Have endarch xylem					
17.	Mycology is the study o	of						
	(A) Algae	(B) Fungi		(C) Bryophytes	(D) Bacteria			
18.	The group of plants cor	ntaining algal and	d fungal	partners in association a	re called			
	(A) Thallophytes	(B) Bryophytes		(C) Pteridophytes	(D) Lichens			
19.	The largest cell found in	n plant kingdom	is that o	f				
	(A) Acetabularia	(B) Pyricularia		(C) Pinnularia	(D) Crotalaria			
20.	Electron microscope wa	as invented by						
	(A) Robert hook		(B) Watson and crick (1953)					
	(C) Jacob and Monad		(D) Kno	oll and ruska				
21.	Apple is							
	(A) Aggregate fruit	(B) Fals	e fruit	(C) True fruit	(D) None of these			
22.	Genes are located on the chromosomes in a							

	(A) Line	ear man	ner		(B) S	Scatt	tered manner		
	(C) Circ	ular maı	nner		(D) Z	Zig –	- zag manner		
23.	Soil erosion leads to								
	(A) Loss	s of wate	er		(B) L	Loss	of air		
	(C) Loss	of vege	etation		(D) L	Loss	of animal life		
24.	The pla	nt used	by mend	del in his	early experir	men	ts was		
	(A) Pota	ato		(B) Pea	plant		(C) Banana		(D) Lemon
25.	The me	dicine p	repared	by gene	tic exchange	in b	acteria is		
	(A) Tyro	othricin		(B) Poly	mycin		(C) Insulin	(D) Bac	itracin
26.	Penicill	in was d	iscovere	ed by					
	(A) Lou	is Pasteı	ur	(B) Alex	kander flemin	ng	(C) J.C.	Bose	(D) E.J.Corey
27.	The lea	ves with	sori are	called a	ıs				
	(A) Scal	e leaves	5	(B) Spo	rophylls		(C) Leaflets	(D) Con	npound leaves
28.	Saprop	hytic org	ganism is	5					
	(A) Eart	hworm		(B) Eug	lena		(C) Amoeba		(D) Fungi
29.	The pla	nt used	by mend	del for hi	s research wa	as			
	(A) Bea	n plant		(B) Brin	jal plant		(C) Pea plant		(D) Bengal gram plant
30.	Match	List I wit	h list II c	correctly	and select yo	our a	answer using th	e codes	given below:
	List I				List II				
	(b) Groundnut 2. Storage 2. Storage 3. Ro			<ol> <li>Cotyledon</li> <li>Stem</li> <li>Root</li> <li>Fruit</li> </ol>	า				
		a	b	С	d				
	(A)	3	1	4	2				
	(B)	2	3	1	4				

- (C) 4 2 3 1
- (D) 1 4 2 3
- 31. Consider the following statements:
  - I. The DNA controls all the activities of the cell
  - II. It transfers the hereditary characters from one generation to the next
  - III. It controls protein synthesis
  - IV. It produces RNA

Of the statements:

- (A) I alone is correct (B) I and II are correct
- (C) I, II and III are correct (D) All are correct
- 32. Which one of the following statements is wrong about meiosis?
  - (A) It brings about genetic variations
  - (B) Reduction in the number of chromosomes in the gemetes
  - (C) It maintains the number of chromosomes in an organism
  - (D) It happens in the meristematic region
- 33. Penicillium is
  - I. A fungus II. A green mould III. A bacterium IV. A medicine

Of the statements:

- (A) I alone is correct (B) I and II are correct
- (C) I, II and IV are correct (D) All are correct
- 34. Consider the following statements:
  - Assertion (A): Fungi take up food from the substratum
  - Reason (R): They excrete digestive enzymes into the substratum

Of the statements:

- (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 (A)
- (C) (A) is true, but (R) is false

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	(D) (A) is false, but (R) is true						
35.	Which one of the follow	ving plants is used in the	treatment of jaundice?				
	(A) Hibiscus	(B) Musa	(C) Eclipta	(D) Crotolaria			
36.	Which of the following	is wrongly matched?					
	(A) Rhizobium – Symbio	otic nitrogen fixation					
	(B) Streptococcus lactis	s – Vinegar production					
	(C) Azotobacter – Non s	symbiotis nitrogen fixation	on				
	(D) Yeast – Fermentation	on					
37.	The smallest angiosper	m is					
	(A) Utricularia	(B) Wolfia	(C) Arabidopsis	(D) Ceratophyllum			
38.	Identify the correct seq	uence of the following					
	(A) Electron transport,	ATP synthesis, Glycolysis	s, Krebs' cycle				
	(B) Krebs' cycle, Glycoly	rsis, ATP synthesis, Elect	ron transport				
	(C) Glycolysis, Krebs' cy	cle, Electron transport,	ATP systhesis				
	(D) ATP synthesis, Glyco	olysis, Krebs' cycle, Elect	ron transport				
39.	Which one of the follow	ving is correctly matched	d?				
	(A) Mitochondrion – Ph	otophosphorylation					
	(B) Ribosomes – Protei	n synthesis					
	(C) Yeast – Aerobic fung	gus					
	(D) Ferredoxin – Cataly	st					
40.	The stiffness of paddy s	traw is due to					
	(A) hard fibres	(B) Stone cells	(C) Collenchyma	(D) Silica			
41.	Which of the following	plants is endemic?					
	(A) Ginkgo	(B) Eucalyptus	(C) Teak	(D) Neem			
42.	The wood is made of						
	(A) Primary phloem (B) Primary xylem						

(C) Secondary xylem

43.	Match the following using the codes given below:									
	(A) Caffeine –		1. Tobacco							
	(B) Opi	um		-		2. Coffee	2. Coffee			
	(C) Nic	otine		-		3. Cinchona				
	(D) Qu	inine		-		4. Рорру				
	Codes:									
		а	b	С	d					
	(A)	1	2	3	4					
	(B)	2	3	4	1					
	(C)	2	4	1	3					
	(D)	4	3	1	2					
44.	"Berry	" fruit is	found ir	1						
	(A) Tul	si	(B) Tomato		nato	(C) Cas	shewnut	(D) Pea		
45.	DNA structure was discovered by									
	(A) Watson and crick			(B) Hargobind	Khorana					
	(C) Kari Landsteiner		(D) Gregor Mendel							
46.	The gro	owing of	f plants ι	under so	illess co	ndition is called				
	(A) Hyd	drology		(B) Hyd	drotropis	sm (C) Hye	drophonics	(D) Hydrotaxis		
47.	Spore i	s a								
	(A) Sex	ual repr	oductive	e cell		(B) Asexual rep	productive cell			
	(C) Veg	getative	cell			(D) Plant				
48.	Quickly	y availab	ole respir	atory su	bstrate i	is				
	(A) Glu	cose		(B) Fru	ctose	(C) Sta	rch	(D) Lactose		
49.	In natu	ire, amn	nonificat	ion take	s place i	n				
	(A) Lak	e	(B) Sea	1	(C) Rive	er	(D) Ditch			
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(D) Secondary phloem

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50.	What kind of plant is an 'Alga'?							
	(A) Chlorophyllous		(B) Achlo	(B) Achlorophyllous				
	(C) Parasitic		(D) Sapro	ophytic				
51.	Ganong's photometer	is used in the stu	ıdy of					
	(A) photosynthesis	(B) Respiration	1	(C) Transpiration	(D) Photorespiration			
52.	Coconut is dispersed in	nature by						
	(A) Animals	(B) Water	(	(C) Wind	(D) All the three			
53.	Pillar roots of banyan h	nelp in						
	(A) The absorption of water		(B) The s	(B) The support of the branches				
	(C) The production of more leaves		(D) All th	(D) All the above				
54.	The organic compound	ls that contain ni	trogen is					
	(A) Glucose	(B) Fructose	(	(C) Protein	(D) Fats			
55.	Which one of the follow	wing is a climax f	orest?					
	(A) Thorn forest			(B) Deciduous forest				
	(C) Evergreen forest		(D) Alpin	ne forest				
56.		nato is due to	(D) Alpir	ne forest				
56.	(C) Evergreen forest	nato is due to (B) Riboflavin		ne forest  (C) Chromatophore	(D) Haemoglobin			
56. 57.	(C) Evergreen forest  Red colour of riped ton	(B) Riboflavin			(D) Haemoglobin			
	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean	(B) Riboflavin			(D) Haemoglobin  (D) Oyster – culture			
	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean  Cultivation of trees and	(B) Riboflavin		(C) Chromatophore				
57.	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean  Cultivation of trees and  (A) Apiculture	(B) Riboflavin	ire	(C) Chromatophore				
57.	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean  Cultivation of trees and  (A) Apiculture  Jaya is variety of	(B) Riboflavin d vegetables is (B) Arboricultu (B) Paddy	ire	<b>(C) Chromatophore</b> (C) Moriculture	(D) Oyster – culture			
57. 58.	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean  Cultivation of trees and  (A) Apiculture  Jaya is variety of  (A) Cotton	(B) Riboflavin d vegetables is (B) Arboricultu (B) Paddy plants takes pla	are	<b>(C) Chromatophore</b> (C) Moriculture	(D) Oyster – culture			
57. 58.	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean  Cultivation of trees and  (A) Apiculture  Jaya is variety of  (A) Cotton  Absorption of water by	(B) Riboflavin d vegetables is (B) Arboricultu (B) Paddy v plants takes pla	ire ace (B) Durir	(C) Chromatophore  (C) Moriculture  (C) Groundnut	(D) Oyster – culture			
57. 58.	(C) Evergreen forest  Red colour of riped ton  (A) Lycobean  Cultivation of trees and  (A) Apiculture  Jaya is variety of  (A) Cotton  Absorption of water by  (A) When the sun shine	(B) Riboflavin d vegetables is (B) Arboricultu  (B) Paddy plants takes pla es ere is dark	nce (B) Durin	(C) Chromatophore  (C) Moriculture  (C) Groundnut  Ing photosynthesis only ound the day	(D) Oyster – culture			

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	(C) Magnesium, Iron, Carbon		(D) Oxygen, Hydrogen, Carbon					
	NOTE: Nitrogen, Phosphorous, Potassium							
61.	Osmosis is synonymous with							
	(A) Diffusion	(B) Imbibition	(C) Turgor pressure	(D) None of these				
62.	What is the firs	t stable product of phot	osynthesis?					
	(A) Starch	(B) Sugar	(C) Protein	(D) Amino acids				
63.	The water abso	orbed by the plant move	s through					
	(A) Phloem tiss	ues (B) Coelenchyn	na (C) Xylem tissu	es (D) Leaves				
64.	Ganong's photo	ometer is used to measu	ire the					
	(A) intensity of	light	(B) Loss of water by plants					
	(C) Rate of pho	tosynthesis by the plant	(D) Amount of food materials in the plant					
65.	What does phic	oem tissue have?						
	(A) Sieve elements		(B) Cork cells					
	(C) Osteosclerio	odes	(D) Chlerenchyma					
66.	Piliferous layer	of root is produced from	n					
	(A) Parenchyma	a cells	(B) Epidermal cells					
	(C) Fibrous cells	s	(D) Hypodermal cells					
67.	Endodermis is f	found as a single layer of	fcells					
	(A) Inside the x	ylem tissue	(B) Within the phloem					
	(C) Present in the mesophyll tissue		(D) Forming the outermost layer of the stele					
68.	The fascicular c	ambium is present in th	e stem of					
	(A) Oryza	(B) Sorghum	(C) Citrus	(D) Cyperus				
69.	Dixon and Jolly	formulated their theory	on the ascent of sap in p	plants based on				
	(A) Capillary att	traction	(B) Imbibition theory					
	(C) Vital theory		(D) Union of water mo	lecules				
70	Find out the only plant among the four given below. Which is not a verophytes?							

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(A) Opuntia

(B) Cereus

(C) Euphorbia tirucally

(D) Butea frondosa

71. Where do you find the largest number of Eucalyptus species?

(A) India

(B) Malaya

(C) Australia

(D) America

72. Match the following:

(a) Jute

1. Wood

(b) Coconut oil

2. Bark

(c) Teak

3. Fibres

(d) Clove Oil

4. Endosperm

5. Bud and stalk of the flower

Codes:

a k

d

5

4

1

(A) 3

3

1

4

1

2

3

(B)

(C)

3

5

4

(D)

73. Match the following:

(a) Pomology

1. Growing plants from tissue

(b) Floriculture

2. Study of bee keeping

(c) Apiculture

3. Study of flowering plants

(d) Tissue culture

4. Study of fruit yielding plants

Codes:

а

4

2

3

b

2

3

d

4

1

1

1

(A)

1

3

C

(B)

2

(C)

2

3

(D)

74.

4

Match the following:

(a) Corn

1. Cotyledon

(b) Pea

2. Endosperm

(c) Tomato

3. Stem tuber

(d) Potato

4. Pericarp

Codes:

#### **General Science**

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

#### 75. Match the following:

- (a) Ethylene
- (b) Gibberellin
- (c) Toxins
- (d) BHC

- 1. Pesticide
- 2. Parthenocarphy
- 3. Apical dominance of shoot
- 4. Fungal infections

#### Codes:

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

#### 76. Match the following:

- (a) Turger pressure 1. Osmosis
- (b) Photosythesis 2. Stamata
- (c) Transpiration 3. Yeast
- (d) Fermentation 4. O<sub>2</sub> evolution

#### Codes:

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

#### 77. Which among the following statements are wrong?

- 1. Short day plants cannot grow in equator because there is too much of rain
- 2. Short day plants grow very well in tropics

	3. Short day plants require less than 12 hours of light per day								
	4. Short day pl	ants prod	luce no flowers	when grown in 16 hours of light per day					
	(A) 1 & 2 are wrong statements			(B) 2, 3 and 4 are w	rong statem	nents			
	(C) 3 & 4 are w	rong stat	ements	(D) 1, 3 & 4 are wro	ong stateme	nts			
78.	Find out the wrong statements from among the following								
	1. All fungi are not multicellular								
	2. Fungi have o	2. Fungi have chloroplast							
	3. Fungi can gr	ow on hu	ıman beings also	)					
	4. Fungi can ca	use disea	ases						
	(A) 1	(B) 2	(C) 3	(D) 2 & 3					
79.	Find out the co	orrect sta	tements:						
	1. Diatoms are unicellular plants								
	2. Diatoms are found in water								
	3. Diatoms have silica coatings								
	4. Diatoms are not green in colour								
	(A) 1, 2 & 3		(B) 2, 3 & 4	(C) 4, 3 & 1		(D) 1, 2 & 4			
80.	The electron transport chain is a group of molecules located in the								
	(A) Inner mem	brane of	mitochondria	(B) Outer membrane of mitochondria					
	(C) Perimotochondrial space			(D) Iyosom	e				
81.	What is penicil	llium?							
	(A) Virus		(B) Alga	(C) Fungus	(D) Bad	cterium			
82.	Inside a seed, t	the plant	remains in a/an						
	(A) Active state	е	(B) Dead state	(C) Dormai	nt state	(D) None of these			
83.	Plasmids are u	sed as ve	ctors in gene tra	ansfer, they are pres	ent in				
	(A) Cells of all l	living org	anisms	(B) All viruses					
	(C) Certain viru	ıses		(D) Certain bacteria					
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84.	Transgenic plants and animals can be produced through							
	(A) Bio-technology	(B) M	icrobiolog	3y				
	(B) Genetic engineering	(D) C <sub>2</sub>	ytology					
85.	Guttation is a process in plants by which							
	(A) Carbon dioxide and oxygen are removed							
	(B) Carbon dioxide is removed							
	(C) Excess of water is remo	oved as water drop	s					
	(D) Excess of water is remo	oved as water vapor	ır					
86.	Ability to fix atmospheric nitrogen is found in							
	(A) Leaves of some crop pla	ants (B) So	(B) Some red algae					
	(C) Chlorella		(D) Some blue green algae					
87.	Opposite decussate phyllot	taxy is seen in						
	(A) Calotropis (B)	Hibiscus Rosa-sine	ensis	(C) Cassia	(D) Nymphae			
88.	The natural systems of clas	sification was post	ulated by					
	(A) Engler and prandti	(B) Be	(B) Bentham					
	(C) Aristotle and Linnaeus	(D Th	eophrastu	ıs and Aristotle				
89.	In plants, energy is produce	ed during the proce	ess of					
	(A) Transpiration (B)	Respiration	(C) Pho	tsynthesis	(D) Water absorption			
90.	In which of the following the "sulphur shower"?	ne pollen grains are	liberated	as clouds of yell	ow powder and also called			
	(A) Fern (B)	Moss	(C) Cyc	as	(D) Pinus			
91.	In botany, the latin names	are used because						
	(A) Latin is a simple languag	ge						
	(B) In whole world there w	ould be only one r	name for o	one plant				
	(C) It is easy to write							
	(D) Most of the names in other languages are not correct							

92.	The flowers are variously coloured to							
	(A) Prepare food	(B) Store food						
	(C) Attract insects			eive sunlight				
93.	Agar- agar is derived fr	om						
	(A) Gelidium	(B) Batrachospo	ermum	(C) Chara	(D) Cladophora			
94.	The plant which is used	l as medicine for	jaundice	e is				
	(A) Phyllanthus emblic	a	(B) Phy	(B) Phyllanthus niruri				
	(C) Phyllanthus mandra	s patensis	(D) Phy	llanthus indicus				
95.	The most commonly us	sed higher plant	vector for gene transfer is					
	(A) pBR 322	(B) CaMV		(C) Transposon	(D) Ti plasmid			
96.	Genetic material of viru	us is/are						
	(A) DNA only	(B) RNA only		(C) DNA (or) RNA	(D) DNA & RNA			
97.	Primary organs of phot	osynthesis are						
	(A) Stems	(B) Roots		(C) Vessels	(D) Leaves			
98.	The abundance of blue	– green algae in	paddy f	ields results in saving	on			
	(A) Irrigation	(B) Phosphorus		(C) Potash	(D) None of these			
99.	Sessile leaves are seen	in						
	(A) Nerium	(B) Mangifera		(C) Calotropis	(D) Hibiscus			
100.	Angiosperms are							
	(A) Crypotogams		(B) Non-Flowering point					
	(C) Spermatophytes		(D) Non – Spermatophytes					