

# Sri Vijay Study Center,

(TRB / TNPSC Free Coaching for only Botany subject)

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**TRB - P.G. Botany -2015-Key (10-01-2015)**

## Question Booklet Series : A

Question No.	Botany Questions	Answer Key
1	In Melandrium the male plant has	(B) 2A +XY
2	Bateson and Punnett proposed	(B) Coupling and repulsion hypothesis
3	Mutagenic agent is	(A) Thalidomide
4	Cytoplasmic inheritance in <i>Mirabilis jalapa</i> was discovered by	(C) Correns
5	A pentose sugar, nitrogenous base and Phosphoric acid constitute	(A) Nucleotide
6	Rose wood is obtained from	(C) Dalbergia
7	The bark of Cinchona yields	(D) Quinine
8	Tea is produced from the leaves of	(D) Camellia
9	The epistatic factor ratio in summer squash is	(B) 12:3:1
10	Replication of DNA occurs in this phase	(B) S
11	Match list I with list II	(D) 3 1 4 2
12	In Euborbiaceae, stipules are modified into	(c) Spines, hairs and glands
13	The family of great economic importance	(A) Poaceae
14	The Botanical Nomenclature for "Little millet" is	(A) <i>Panicum miliare</i>
15	The Botanical name of Oats	(B) <i>Avena Sativa</i>
16	Winged seed is the characteristic feature of	(D) <i>Pinus</i>
17	Ephedrine is obtained from	(B) <i>Ephedra</i>
18	Peat is obtained from	(B) <i>Sphagnum</i>
19	The remarkably gigantic ancient tree	( B) <i>Sequoia</i>
20	The sperms are remarkably as large as the egg is	(A) <i>Cycus</i>
21	Ventral leaves known as Amphigastria are seen in	(D) <i>Porella</i>
22	Heterospory condition is seen in	(C) <i>Selaginella</i>
23	Telome theory was proposed by	(A) Zimmermann
24	The period of Pteridophyta	(B) Paleozoic
25	The stele present in <i>Dryopteris</i>	(C) Dictyostele

26	Match list I with list II	(c) 3 1 4 2
27	The inflorescence present in Fig	(B) Hypanthodium
28	The fleshy part of Mango	(A) Mesocarp
29	Bentham and Hooker system of classification is based on	(D) Natural system
30	Michelia champaca belongs to the family	(B) Magnoliaceae
31	Frankia is a Nitrogen fixing	(A) Actinomycete
32	Chitosan is a	(A) Phytoalexin elicitor
33	Mycobacterium leprae is a	(A) Gram-positive bacterium
34	In Bryophytes, this is essential for fertilization	(C) Water
35	The number of neck canal cells in the archegonium of Riccia is	(A) 4
36	In Indian Rice beer "Sonti" is produced by	(B) Rhizopus
37	Captan is a	(A) Fungicide
38	Burgundy mixture contains	(D) Copper sulphate, washing soda and water
39	Most of the plant pathogens enter into their host through	(B) Upper surface of stomata
40	The alga used in space research is	(A) Chlorella
41	The fungal partner in Lichen Thallus is called as	(C) Cycobiont
42	Usnea is an example of	(D) Fruticose Lichen
43	Vitamin B12 is produced by	(B) Pseudomonas denitrificans ? (A) Clostridium
44	In Rhizobium, Nodulation gene is located on	(C) Sym plasmid
45	The microbe that grows first in the Idli batter is	? (B) Aspergillus ? (C) Leuconostoc
46	Flagella arranged all over the bacterial cell surface is referred to as	(C) Peritrichous
47	Agar-agar is obtained largely form this alga	(B) Gelidium
48	The male sex organ of Chara is called as	(C) Globule
49	The fruit body called apothecium is produced in	(B) Peziza
50	----- fungus has proved as a useful tool in genetical and biochemical research	(A) Neurospora
51	The nucleic acid core of virus particle is surrounded by	(B) Capsid
52	Double standed DNA is found as the genetic material in	(A) Cauliflower Mosaic virus
53	Virus that infect bacteria are called as	(D) Bacteriophages
54	The cell wall of bacteria is made up of --- substance	(C) Peptidoglycan
55	The conjugation process in E.coli bacterium was first described by	(A) Lederberg and Tatum

56	Match and find the sequence of fossil plant generic names from the following codes	(B) 4 3 12
57	Find the odd pair out	(B) Compression-Preserved soft plant materials
58	Solidified fossil plant resin usually yellow brown in colour is known as	(C) Amber
59	Age of cycades is	(A) Mesozoic era
60	Mummified fossil is	(C) Mammoth
61	The theory of continental drift was proposed by	(B) Wegener
62	Epibiont species are called	(C) Local endemics
63	Neoendemic genera in India	(A) Chloroxylon
64	The common plants of alpine forests are	(A) Abies
65	Calamites is the fossil representation of	(C) Sphenopsida
66	Ecology which deals with systems of many species is	(B) Synecology
67	Biome refers to	(C) Large community of plants and animals
68	Which ecological pyramid can never occur in an inverted form?	(B) Pyramid of energy
69	The process of soil formation is known as	(C) Pedogenesis
70	A plant of foreign origin is called	(A) Exotic
71	The function of a gene is	(B) to synthesize proteins
72	Diazotrophs are	(D) Nitrogen fixers
73	Northern blotting is a method of separation of	(B) RNA
74	Which one of the following gens is responsible for tumor induction in the Ti plasmid of Agrobacterium tumefaciens?	(C) Vir genes
75	Which one of the following bacterial strains is called as "Super bug"?	(c) Pseudomonas putida
76	Match the following :	(B) 214356
77	Choose the correct explanation for the statement given below <b>Statement:</b> Sugars have large numbers of Streosomers <b>Explanation:</b>	(B) Contain several asymmetric carbon atoms
78	Nucleotide is a	(D) Nitrogen Base+ Sugar+ Phosphate group
79	Match the following	(A) 5 4 1 2 3
80	The most prevalent interactions responsible for tertiary structure of protein are	(D) All the above
81	Callus induction for the explants is due to the activity of	(C) Auxins and cytokinins

82	Without the fusion of male and female sex gametes, certain embryos proliferated through tissue culture, such embryos are called as	(D) Embryoids
83	Which one of the following selection methods was used by Indian Agricultural Research Institute to release wheat varieties NP4, NP6 and NP12?	(B) Pure line selection
84	Which one of the following radiations was used for the production of amber colour, protein rich wheat variety "Sharpathi Sonora"?	(A) Gamma rays and UV rays
85	The term ecological niche was first used by	(A) Grinnel
86	Munch's hypothesis accounts for translocation of organic solutes in	(C) Both (A) and (B)
87	The number of ATP formed by Oxidizing one NADH via electron transport chain during aerobic respiration of eukaryotic plants is	(A) 3
88	Determine the correctness of the <b>Assertion</b> : Leghemoglobin is found in cytosol of infected leguminous plant root nodules and gives pinkish red colour to the nodules <b>Reason</b> : The globin part is synthesized by bacterial genome	(A) [A] is true but [R] is false
89	Which one of the following pair is correct?	?(C) Morphogenesis – Auxin ?(D) Dormancy of Buds - Ethylene
90	Give the correct explanation for the statement given below: Statement : Monosaccharides are reducing in nature Explanation :	(C) Have potential aldehyde or keto group
91	Campylotropis ovule is like a	(C) Curved
92	After fertilization, the----- develops into a fruit and the ..... develops into a seed.	(B) Ovary, Ovule
93	The endosperm formation is usually not found in two angiospermic families they are	(C) Orchidaceae and Trapaceae
94	Match and find the sequence of answers from the following codes:	(B) 3 1 2 5 4
95	Find the odd pair out	(A) Stomatal opening – Increase in soluble sugars concentration in guard cells
96	Sapwood is also known as	(B) Alburnum
97	Canada balsam is used for	(C) Mounting
98	Which of the following reagents is used for detection of proteins?	(A) Biuret reagent

99	Amoeboid Tapetum is also called as	(B) Periplasmodial Tapetum
100	Pollen tube entering the ovule through micropyle region is called	(A) Porogamy
101	Karyotheca is	(A) Nuclear membrane
102	Korper-Kappe theory was put forth by	(D) Schuepp
103	Cork cambium is called as	(C) Phellogen
104	Which of the following is a living simple tissue involved as strengthening tissue for the plant body?	(D) Collenchyma
105	Tyloses are found in	(A) Xylem vessels
106	The enzyme found in mitochondrial matrix	(A) Malate dehydrogenase
107	Chief function of granular endoplasmic reticulum	(D) Protein synthesis
108	The Radio isotope used in auto radiography	(B) C <sup>14</sup>
109	Mitosis is inhibited by	(A) Colchicine
110	Polytene chromosome is formed due to	(B) Endomitosis
<b>EDUCATION</b>		
111	Which of the following is not a Nobel Prize for literature, winner?	(D) Ed.Silva
112	Which of the following was one of the first recipients of the Bharat Ratna?	(D) C.V. Raman
113	The I Asian Games were held in India in the year	(B) 1951
114	The proposed RBIVS development bank will have headquarters in	(B) Shanghai
115	The Mars space craft was launched by which ISRO launch vehicle?	(C) PSLV-C25
116	The Veda Which deals mostly with music is	(C) Sama Veda
117	In India's freedom struggle the non-co-operation movement was launched in	© 1920
118	The Constitution of India was enacted and adopted by the Constituent Assembly on	(c) 26 November 1949
119	During the Indian Freedom Movement who led the Salt Satyagraha at Vedaranyam in Tamil Nadu?	(A) Rajaji
120	Which one of the following Gas is responsible for Green House Effect?	(C) Carbon-di-oxide
121	"The nosy child and the silent mind? is the work of	(B) J.Krishnamurti
122	"National Institute of Open Schooling" was established in	(C) November, 1989
123	Who introduced the idea of "non-classroom learning"?	(C) Ivan lilich
124	"INFLIBNET" is an autonomous inter-university centre of	(D) UGC

125	The expansion of "OPAC" is	(D) Online Public Access Catalog
126	The term 'homeostasis' was coined by	(C) W.B. Cannon
127	The term ..... Literally means 'splitting of the mind'	(D) Schizophrenia
128	The useful and acceptable features of different philosophies and tendencies in education which are harmoniously blended' is called	(B) Eclecticism
129	Tagore's "Visva-Bharati" was declared to be a central university and an institution of national importance in	(D) 1951
130	The distinction between 'knowledge by acquaintance' and 'knowledge by description' was promoted by	(C) Bertrand Russell
131	P.E. Vernon who proposed hierarchical theory of intelligence is a ..... Psychologist.	(B) British
132	The study of fluctuation of attention can be experimentally made in the psychology lab using.....	(D) Masson's disc
133	..... Was designed mainly for the use of deaf and linguistically backward children	(A) Pinter-Patterson scale
134	In an experiment by Watson the subject a human baby named 'Albert" was given a ..... to play with	(B) Rabbit
135	Dart throwing experiment to test the transfer value of generalization was conducted by	(B) Charles Judd
136	Emotional development of a child bears a ..... correlation with social development.	(a) Positive
137	..... is defined as the process of interpretation of sensation according to one's experiences.	(c) Perception
138	"No stimulus, no response' mechanism in the evolution of behaviors was opposed by	(A) B.F. Skinner
139	..... Is affective disposition which evokes attention and maintains it.	(D) Interest
140	Which learning is retained longer than verbal learning ?	(B) Memory based
141	"Preparing Texbook Manuscripts"(1970) was a publication by	(D) United Nations Educational, Scientific and Cultural Organization
142	Who was the Chairman of the Committee on emotional Integration set-up in 1961 by the Ministry of Education?	(B) Dr. Sampurnanand
143	"Wastage' was defined by the ..... Committee as the premature withdrawal of a child before the completion of the primary education.	(D) Hartog

144	Who first introduced the concept of developmental tasks?	?(C) Robert Havighurst
145	The major divisions of educational psychology were recognized by	? (A) Kolesnik
146	National Adult Education Programme (NAEP) was launched on	?( (B) 2 <sup>nd</sup> October 1978
147	..... Was constituted to look into the causes for lack of public support, particularly in rural areas, for girls education and to enlist public co-operation	(B) Smt. Sargabai Deshmukh Committee(1959)
148	No religious instruction shall be provided in any education institution wholly maintained out of state fund'. Which Article states this?	(B) Article 28(1)
149	An Interim Indian National Commission for co-operation with UNESCO was set –up in the year ..... by the Ministry of education, Government of India.	(A) 1949
150	In India, National Institute for the visually handicapped was set-up at	(D) Dehradun

Thank you ... all the Best