BOTANY

101.	Salvinia (Pteridophyte) is	s an aquatic weed and called	112.	Female cone of Pinus is borne on		
	(1) Walking fern	(2) Sorrow of Kashmir		(1) Dwarf shoot	(2) Needle leaves	
	(3) Silver fern	(4) Bengal's terror.		(3) Long shoot		
102.	Number of peristome tee	eth in <i>Funaria</i> capsule is		(4) Undeveloped male of	cone	
	(1) 16 in one whorl	(2) 16 in two whorls	113.	Prothallus of fern produ-	ces	
	(3) 32 in one whorls	(4) 32 in two whorls		(1) Spores	(2) Gametes	
103.	The protective covering of	of sori in ferns is called as		(3) Both 1 and 2	(4) None	
	(1) Perichaetium	(2) Integment	114.	Trabeculae are present i	n the stem of	
	(3) Indusium	(4). Tegmen		(1) Rhynia	(2) Lycopodium	
104.	Christmas tree is	Entra		(3) Selaginella	(4) Pteris	
	(1) Pinus sylvestris	R	115.	Antherozoids of ferns an	re	
	 (2) Araucaria. excelsa (3) Thuja (4) Williamsonia sewardiena 5. Canada balsam is a type of turpentine obtained from 			(1) Spherical and multiflagellate		
				(2) Spirally coiled and multiflagellate		
				(3) Rounded and biflagellate		
105.				(4) Club-shaped and uniflagellate		
	(1) Juniperous	(2) Abies	116.	Wings in Pinus seeds de	evelop from	
	(3) Cedrus	(4) Pinus.	11.	(1) Bract scales	(2) Ovuliferous scales	
106.		eral conduction of water and		(3) Cone axis	(4) Seed coat	
			117.	In which of the following groups would you place a		
	(1) Roots of gymnosperms			plant which produces spores, has vascular tissues and bears seeds without fruits ?		
	(2) Stem of gymnosperm					
	(3) Leaves of gymnosper			 Angiosperms Btariadaphytas 	(2) Gymnosperms	
	(4) Leaves of angiosperms			(3) Pteriodophytes(4) BryophytesThe perisperm in a seed of <i>Cycas</i> is		
107.	(1) Continuous shedding of foliage			(1) Remains of nucellus		
				(1) Remains of nucerius(2) Female gametophyte		
	(2) Pollen cloud of pine(3) Rain bringing algal spores(4) Shahibi and a sh			(2) Female gametophyte(3) Endosperm	5	
				(4) Seed coat		
100	(4) Shedding of seeds from high trees in forest		110		hyte of Selaginella consists	
108.	8. Number of neck canal cells present in the Archegonium of <i>Pinus</i> is			13 celled male gametophyte of Selaginella consists of		
	(1) 4	(2) 3			Jacket cells & 4 Primary	
	(3) 2	(2) 3 (4) 0		androgonial cells	,	
109	In <i>Pinus</i> , Microspores is			(2) 1 Prothallial cell, 5	Jacket cells & 7 Primary	
107.	(1) 3 - celled stage (2) 2 - celled stage			androgonial cells		
	(1) 5 celled stage(3) 4 - celled stage	(4) 6 - celled stage	-		4 Jacket cells & 8 Primary	
110	In branched conidiophore of <i>Penicillium</i> , the ultimate		trai	androgonial cells		
	branch which bears sterigmata is called		(4) I Prothallial cells, a androgonial cells	8 Jacket cells & 4 Primary		
	(1) Phialides	(2) Metulae	120	13/1	alked sporangia attached to	
	(3) Ramus	(4) Ramenta	120.	placenta and covered by		
111.	Gymnosperms are believe	ed to be originated during		(1) Ramenta	(2) Sorus	
	(1) Paleozoic era	(2) Mesozoic era		(3) Sporophyll	(4) Cone	
	(3) Coenozoic era	(4) Both 1 and 2				

121. In Pteris the sporophytic generation begins from (2) Large, sessile, ovate with acute apex with midrib and ends with the formation of spore mother cells : (3) Small, sessile, ovate with acute apex with midrib (1) Spore (2) Zygote (4) None of these (3) Zoospore 130. Which of the following structure of 'Funaria' is (4) Antherozoid haploid? (2) Calyptra 122. In Pteris the archegonia are present : (1) Operculum (1) Near rhizoids on lower surface (3) Sporocytes (4) Peristomial teeth (2) Near anterior notch 131. Bryophyte used as 'antiseptic absorbant bandage' is (3) Distributed on whole surface (2) Riccia fluitans (1) Sphagnum time of 132. In which of the following plant sex organs are embedded in the thallus? (4) On posterior end of prothallus 123. In pteridophytes, meiosis occurs at the time of (1) Spore formation (2) Gamete formation (3) Riccia (4) Fern (3) Prothallus formation 133. Carpogonium is female sex organ of (4) Any of the above is possible (1) Red algae (2) Brown algae 124. Pollination in *Cycas* takes place by : (3) Green algae (4) Land plants (1) Wind (2) Insects 134. In Pteridophytes, reduction division occurs when (3) Water (4) Man (1) Prothallus is formed (2) Sex organs are formed 125. Coralloid roots of Cycas is distinguished from angiosperm roots by : (3) Spores are formed (4) Gametes are formed (1) Presence of algal zones 135. A saprophytic bryophyte found in the Himalayas is (2) Absence of algal zones (1) Sphagnum (2) Porella (3) Absence of pith (3) *Ricciocarpus* (4) Bauxbaumia (4) Having xylem tissue 136. Which of the following is a true moss? (2) Reindeer moss 126. The spermatozoids of Cycas are: (1) Club moss (1) Small, uniciliate and of ovoid shape (3) Irish moss (4) Bog moss 137. Ulothrix, Riccia and ferns are similar in having (2) Small, lens-shaped and multiciliate (1) Dominant gametophyte (3) Large, top-shaped and multiciliate (4) None of these (2) Unicellular gametangia 127. Inverted Omega shaped ring of vascular bundles is (3) Absence of vascular tissues found in : (4) Presence of flagellated gametes (1) Rachis of Cycas 138. Which of the following statements about Cycas is (2) Leaflet of Cycas incorrect? (3) Roots of Cycas (1) Its xylem is mainly composed of tracheids (4) Old stem of Cycas (2) Its roots contain some green algae 128. The number of cotyledons in the embryo of Pinus (3) It lacks a properly organized female cone are : (4) It has circinate vernation (1) Two 139. Pyrrophytes are also known as (2) One (1) Brown algae (2) Fire algae (3) 3-18 (3) Red algae (4) Fungi (4) All of the above given are possible 140. On germination, moss spores produce 129. Leaves of Funaria are: (1) Annulus (2) Theca (1) Small, sessile, ovate with acute apex without (3) Peristome (4) Protonema midrib

- 141. Chl.a, Chl.d and phycoerythrin pigments are found in
 - (1) Cyanophyceae (2) Bacillariophyceae
 - (4) Chlorophyceae (3) Rhodophyceae
- 142. Set of bacterial diseases is
 - (1) Diptheria, leprosy and plague
 - (2) Malaria, mumps and polio
 - (3) Cholera, typhoid and mumps
 - (4) Tetanus, TB and malaria
- 143. This place in India is called 'The Golden Mine of Liverworts'
 - (1) Eastern Himalayas (2) Western Himalayas
 - (4) Easter Ghats (3) Western Ghats
- 144. Two microbes found to be very useful in genetic engineering are
 - (1) Crown gall bacterium and Caenorhabditis
 - (2) Escherichia coli and Agrobacterium tumefaciens
 - (3) Vibrio cholerae and a tailed bacteriophage
 - (4) Diplococcus sp. and Pseudomonas sp.
- 145. The causative agent of mad-cow disease is a
 - (2) Mycoplasma (1) Virus

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- (3) Prion
- (4) Viroids
- 146. The bacterium (Clostridium botulinum) that causes botulism is
 - (1) an obligate aerobe (2) a facultative anaerobe
 - (3) an obligate anaerobe (4) a facultative aerobes
- 147. Auxospores are produced in
 - (1) Diatoms (2) Green algae
 - (3) Brown algae (4) Red algae
- 148. Olive green *Batrachospermum* having prominent plasmodesmata is
 - (1) Red algae
 - (3) Brown algae (4) Blue green algae

(2) Blue algae

- 149. Diatoms do not easily decay as other algae because
 - (1) It is made up of nonlining cells
 - (2) It has mucilagenous wall
 - (3) It has water proof wall
 - Entrance (4) They have highly siliceous wall
- 150. The macrozoospore of Ulothrix are
 - (1) Quadriflagellate (2) Biflagellate

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- (3) Both (1) and (2)
 - (4) None of these





Entrance

