BOTANY

101.	Salvinia (Pteridophyte) is 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	A D	
102.	Number of peristome teeth in <i>Funaria</i> capsule is		(4) Undeveloped male cone			
	(1) 16 in one whorl	(2) 16 in two whorls	113.	Prothallus of fern produc	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 in	n the stem of	
	(3) Indusium	(4). Tegmen		(1) Rhynia	(2) Lycopodium	
104.	Christmas tree is	(Entraine		(3) Selaginella	(4) Pteris	
	(1) Pinus sylvestris	R	115.	Antherozoids of ferns ar	e	
	(2) Araucaria. excelsa			(1) Spherical and multifle	agellate	
	(3) Thuja			(2) Spirally coiled and multiflagellate		
	(4) Williamsonia sewardiena			(3) Rounded and biflagellate		
105.	6. Canada balsam is a type of turpentine obtained from			(4) Club-shaped and unit	flagellate	
	(1) Juniperous (2) Abies 116		116.	Wings in Pinus seeds develop from		
	(3) Cedrus	(4) Pinus.	Lie	(1) Bract scales	(2) Ovuliferous scales	
106.	Transfusion tissue for late	eral conduction of water and		(3) Cone axis	(4) Seed coat	
	food are found in		117.	In which of the following groups would you place a		
	(1) Roots of gymnosperi	ms			res, has vascular tissues and	
	(2) Stem of gymnosperm	as		bears seeds without fruit		
	(3) Leaves of gymnosper	rms		(1) Angiosperms	(2) Gymnosperms	
	(4) Leaves of angiosperr	ms		(3) Pteriodophytes	(4) Bryophytes	
107.	Sulphur shower is		118.	The perisperm in a seed of Cycas is		
	(1) Continuous shedding	of foliage		(1) Remains of nucellus		
	(2) Pollen cloud of pine	RE		(2) Female gametophyte)	
	(3) Rain bringing algal sp	pores		(3) Endosperm		
	(4) Shedding of seeds from	om high trees in forest		(4) Seed coat		
108.	Trained of neek canal cells present in the		119.		nyte of Selaginella consists	
	Archegonium of <i>Pinus</i> is			of	I111. 0 4 D.:	
	(1) 4	(2) 3		androgonial cells	Jacket cells & 4 Primary	
	(3) 2	(4) 0			Jacket cells & 7 Primary	
109.	In <i>Pinus</i> , Microspores is shed at			androgonial cells	vacace cens & / 11mmry	
	(1) 3 - celled stage	500		(3) 1 Prothallial cells, 4	Jacket cells & 8 Primary	
	(3) 4 - celled stage	(4) 6 - celled stage	rar	androgonial cells		
110.	In branched conidiophore of <i>Penicillium</i> , the ultimate			(4) 1 Prothallial cells, 8	3 Jacket cells & 4 Primary	
	branch which bears sterig			androgonial cells	ntrai	
	(1) Phialides	(2) Metulae	120.		lked sporangia attached to	
111	(3) Ramus	(4) Ramenta		placenta and covered by		
111.	• •	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 <i>Pteris</i> the sporophytic generation begins from and ends with the formation of spore mother cells :		(2) Large, sessile, ovate with acute apex with midrib(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?		
122.	In Pteris the archegonia are present:		(1) Operculum	(2) Calyptra	
	(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		(1) Sphagnum	(2) Riccia fluitans	
	(4) On posterior end of prothallus	1	(3) Marchantia	(4) Porella	
123.	In pteridophytes, meiosis occurs at the time of	132.	In which of the follow	ing plant sex organs are	
	(1) Spore formation		(3) Marchantia (4) Porella In which of the following plant sex organs are embedded in the thallus? (1) Azolla (2) Moss		
	(2) Gamete formation		(1) Azolla	(2) Moss	
	(3) Prothallus formation		(3) Riccia	(4) Fern	
	(4) Any of the above is possible		33. Carpogonium is female sex organ of		
124.	Pollination in <i>Cycas</i> takes place by :		(1) Red algae	(2) Brown algae	
	(1) Wind (2) Insects		(3) Green algae	(4) Land plants	
	(3) Water (4) Man	134.	In Pteridophytes, reduction	on division occurs when	
125	Coralloid roots of <i>Cycas</i> is distinguished from	nc	(1) Prothallus is formed	(2) Sex organs are formed	
125.	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		Which of the following is	s a true moss?	
126.	The spermatozoids of <i>Cycas</i> are:			(2) Reindeer moss	
	(1) Small, uniciliate and of ovoid shape		(3) Irish moss	(4) Bog moss	
	(2) Small, lens-shaped and multiciliate		Ulothrix, Riccia and ferr	ns are similar in having	
	(3) Large, top-shaped and multiciliate		(1) Dominant gametophyte		
	(4) None of these		(2) Unicellular gametang		
127.	Inverted Omega shaped ring of vascular bundles is		(3) Absence of vascular		
	found in:		(4) Presence of flagellat	ed gametes	
	(1) Rachis of Cycas	138.	- · ·	statements about <i>Cycas</i> is	
	(2) Leaflet of Cycas		incorrect?	·	
	(3) Roots of Cycas		(1) Its xylem is mainly c	omposed of tracheids	
	(4) Old stem of <i>Cycas</i>		(2) Its roots contain som	ne green algae	
128.	The number of cotyledons in the embryo of Pinus		(3) It lacks a properly organized female cone		
	are: (1) Two (2) One (3) 3-18		(4) It has circinate verna	tion	
			Pyrrophytes are also kno	own as	
			(1) Brown algae	(2) Fire algae	
			(3) Red algae	(4) Fungi	
	(4) All of the above given are possible		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
- (3) Rhodophyceae
- (4) Chlorophyceae
- 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
- - (3) Western Ghats
- (4) Easter 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
 - (1) Virus
- (2) Mycoplasma

- (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
- (2) Blue algae
- (3) Brown algae
- (4) Blue green 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
- (3) Both (1) and (2)
- (4) None of these











