SUBJECT :- BIOLOGY		DATE		
CLASS	6 :- 11 th		NAME	
CHAPT	ER :- PLANT KINGDOM		SECTION	
	(SECT)	ION-A)		
1.	Artificial system of classification	7.	The main criterion use	ed in classification of
	(A) Includes features like anatomy,		algae is	
	morphology and photochemistry		A. Flagellation	
	(B) Was given by George Bentham and		B. Type of pigmentation	n
	Joseph Dalton Hooker		C. Chemistry of cell wa	all
	(C) Gave equal weightage to vegetative		(A) (B) only (B)	(B) and (C) only
	and floral characters		(C) (A) and (B) only	(D) (A), (B) and (C)
	(D) Brought together the closely related		(-)(-)(-)	(-)(-),(-)(-)
	species	8	Which of the followir	a are colonial and
	species	0.		
2	System of classification proposed by			ae respectively?
	Poptian and 3 Hocker		(A) Ulothrix and Volvo	X
			(B) Volvox and Spirog	yra
	(A) Based on natural aminities among the		(C) Chara and Volvox	
	(B) Believes that organisms belonging to		(D) Chlamydomonas a	ind Chara
	same taxa have a common ancestor			
	(C) Considered embryology, photochemistry	9.	Brown algae do not inc	clude
	anatomy of plants as criteria and		(A) Filamentous form	
	(D) Both (A) and (C)		(B) Unicellular from	
3.	The classification of organisms on the		(C) Parenchymatous to (D) Large massive for	orm m
	basis of DNA sequencing is known as		(D) Large massive for	
	(A) Cytotaxonomy	10.	Algin and carrageen o	btained from
	(B) Chemotaxonomy		(A) Brown and red alg	ae, respectively
	(C) Phenetics (D) Adapsonian taxonomy		(B) Red and brown alg	ae, respectively
			(C) Brown and green a	algae, respectively
4.	Which of the following feature was not			
	used by Bentham and Hooker for 11.		Zoospores are abse	nt in which of the
	classification of plants?		following algae?	
	(A) External realures (B) Analomy (C) Photochemistry (D) Phylogeny		(A) Ectocapus	(B) Laminaria
				(D) Polysiphonia
5.	Which of the following features is common	12.	What is the food mate	erial in the members
	in artificial, natural and phylogenetic		of class Rhodophycea	e?
	system of classification?		(A) Floridean starch	(B) Laminarin
	(A) Anatomy (B) Phylogeny		(C) Cellulose	(D) Proteins
	(C) Morphology	13.	How many of the follo	wing are associated
	(D) Phytochemistry		with members of red a	lgae?
	-	La	aminarin and mannitol,N	Non-motilespores,
6.	The thallus organization of Volvox is	0	ogamous reproduction,	
	(A) Unicellular and motile	P	Phycocolloids in cell wall, Complex post	
	(C) Colonial and non-flagellate	ſ	(A) Three	(B) Four
	(D) Multicellular and coccid		(C) Two	(D) Five

14.	Gametangia and sporangia are non-	21.	Which of these may not be an ecological
	jacketed and- unicellular in		importance of bryophytes?
	(A) Chara, Volvox, Polysiphonia		(A) Peat formation used as fuel.
	(B) Ulothrix, Porphyra, Volvox		(B) Frist organisms to colonise rocks.
	(C) Chlamydomonas, Ulothrix		(C) Reduce the impact of falling rain.
	(D) Chara, Gelidium, Gracilaria		(D) Prevent soil erosion
15	Members of class Rhodonbyceae mostly		
10.	found in		
	(A) Fresh water habitat in the coder regions	22.	In which of the following bryophyte,
	(B) Marine habitats in the warmer areas		sporophyte is not divided into foot, seta
	(C) Fresh water habitat in the warmer areas		and capsule?
	(D) Maine habitat in the colder regions		(A) Marchantia (B) Riccia
16.	An alga which can be employed as food		(C) Sphagnum (D) Funaria
	for human being is		
	(A) Laminaria (B) Porphyra	23.	Funaria consists of upright slender axes
	(C) Spirulina (D) All of these		bearing arranged leaves
47	Consider the following statements		(A) Spirally (B) Whorled
17.	A They vary in colour from olive green to		(C) Oppositely (D) Both (B) and (C)
	various shades of brown depending upon	24	Pteridonhytes do not form
	the amount of xanthophyll present.	24.	(A) Cones (B) Prothallus
	B. Present at the great depths in the		(C) Spores (D) Seeds
	oceans where relatively little light		
	c The sexual reproduction shows	25.	Pteridophytes are more advance than
	considerable variation in the type and		bryophytes. Which of the following features of
	formation of sex cells.		ptendophytes justify this statement?
	A B C		(B) Sporophytic plant body
(A) (B)	Phaeophyceae Chlorophyceae Rhodophyceae Phaeophyceae Rhodophyceae Chlorophyceae		(C) Presence of vascular tissue
(C)	Chlorophyceae Rhodophyceae Phaeophyceae		(D) More than one option is correct
(D)	Rhodophyceae Chlorophyceae Phaeophyceae		
18.	Choose the incorrect statements for red	26.	resemble in possessing
	algae.		(A) Strobilus and Rhizophore
	(A) Absence of motile stage in life cycle.		(B) Adventitious roots and sporophylls
	(B) Presence of red colour pigment		(C) Two kinds of spores
	phycoerythrin.		(D) Highly reduced gametophytes
	(C) Female sex organ is multicellular and called nucule	27.	Which of the following is not a members of
	(D) Storage food is very similar to		class Pteridopsida?
	amylopectin and glycogen.		(A) Equisetum (B) Dryopteris
			(C) Pteris (D) Adiantum
19.	Juvenile, filamentous stage of moss	20	Origin of seed habit or its foundation was
	(A) Is called protonema (B) Develops from cormination of opera	20.	laid down in some pteridophytes, but seed
	(C) Reproduces by fragmentation		formation did not occu because of
	(D) All of these		(A) Dependence of water for fertilization
			(B) Absence of precocious development
20.	Which of the following is a dioecious		gametophyte of male
	bryophyte?		(C) Absence of Integumented megasporangium
	(A) Funaria (B) Sphagnum		embryo within female gametophyte
_			

- **29.** Pteridophytes are
 - (A) Vascular cryptogams
 - (B) Nonvascular embryophytes
 - (C) First Archegoniates
 - (D) First vascular spermatophytes
- 30. Read the following statements w.r.t gymnosperms and state true (T) or false (F):

A. Include medium size tall trees or tall trees and shrubs of perennial habit.

B. Ovules remain exposed, both before and often fertilization.

C. All the members possess tap root system in association with fungal filament.

D. It is the smallest group of plant kindom.

	Α	В	С	D
(A)	Т	Т	F	F
(B)	Т	Т	F	Т
(C)	Т	F	Т	F
(D)	F	F	Т	Т

31. Gymnosperms are also called soft wood spermatophytes because they lack
(A) Cambium
(B) Phloem fibres
(C) Thick wall tracheids
(D) Xylem fibres

- The integumented indehiscent megasporangium present in Pinus is called
 (A) Ovule
 (B) Strobilus
 (C) Carpel
 (D) Endosperm
- Which of the following is the tallest tree species?(A) Pinus(B) Sequoia
 - (C) Cycas (D) Cedrus
- **34.** Adaptation in conifers to reduce water loss is/are presence of
 - (A) Thick cuticle
 - (B) Sunken stomata
 - (C) Needle-like leaves
 - (D) All of these
- **35.** Sulphur shower is the phenomenon related to (A) Degradation of sulphur rocks by Pimus

roots

- (B) Pollination in Cyear
- (C) Yellow pollen clouds in pine forest
- (D) Sulphur utilization by mycorrhizal roots

(SECTION-B)

36. The wing in the Pinus seed develops from
(A) Bract scale
(B) Exine
(C) Intine
(D) Ovuliferous scale

37. Conifers form

- (A) Bisexual cones
- (B) Motile spermatozoids
- (C) Dimorphic branches
- (D) Endosperm as post-fertilization tissue

38. If the endosperm cell of Pinus contains 12 chromosomes, then what will be the chromosome number in its megasporophyll, pollen, embryo, root respectively?
(A) 24, 12, 24, 24
(B) 12, 12, 24, 24
(C) 8, 4, 8, 8
(D) 8, 8, 4, 8

39. The thallus organization of Volvox is.
 (A) Unicellular and motile
 (B) Flagellate colonial
 (C) Colonial and non-flagellate

(D) Multicellular and coccid

40. Select the correct set w.r.t. haeophyceae:

	Stored food	Flagella	Cell wall
(A)	Laminarin	2. Heterokont	Cellulose and
		lateral	Poly sulphate
			esters
(B)	Floridean	No flagella	Cellulose and
	starch		pectin
(C)	Mannitol	2. Heterokont	Cellulose and
		Lateral	algin
(D)	Laminarin	2-8,	Cellulose
	And annitol	Heterokontapical	

How many of the following structures in the algae are motile?
Zoospore, Chlamydospores, Akinetes, Gametes of Chlamydomonas, Gametes of Spirogyra, Gametes of Fucus, Gametes of Porphyra, Aplanospores
(A) Three
(B) Four
(C) Five
(D) Two

- **42.** Members of Chlorophyceae, Phaeophyceae and Rhodophyceae are similar in
 - (A) Reserve food material
 - (B) Apical flagellation
 - (C) Fresh water habitat
 - (D) Chlorophyll a as primary photosynthetic pigment

- **43.** Endosperm in gymnosperm is equivalent to angiosperms.
 - (A) Nucleus
 - (B) Carpel
 - (C) Integumented megasporangium
 - (D) Embryo sac
- 44. In which of the following algae all types of sexual re- production, i.e. isogamous, anisogamous and oogamous reproduction is found?
 - (A) Chara
 - (B) Chlamydomonas
 - (C) Volvox
 - (D) Spirogyra
- **45.** Asexual reproduction in Marchantia can occur by
 - (A) Spores
- (B) Protonema
- (C) Gemmae
- (D) Eliter
- **46.** Which of the following feature/event in pteridophytes is a precursor to the seed habit considered an important step in evolution?
 - (A) Development of cone
 - (B) Vascular tissue
 - (C) Internal fertilization
 - (D) Heterospory
- **47.** Polysulphate ester is present in the cell wall of
 - (A) Red algae (B) Brown algae
 - (C) Green algae (D) Both (A) and (B)

- 48. The algae which are mostly found in marine habitats with abundance in the warmer region
 A. Possess chlorophyll a and d
 B. Show isogamous sexual reproduction
 C. Do not show post-fertilization development
 D. Are characterised by absence of motile spores and gametes
 (A) Only (A) and (C) are correct
 (B) Only (C) is incorrect
 (C) Only (A) and (D) are correct
 (D) (A), (B), (C) and (D) are correct
- **49.** Identify the algae in figure and choose the correct option.



Name of algae	Number of flagella in gametes	Stored food
(A) Spirogyra	Absent	Starch
(B) Ulothrix	2, Apical	Starch
(C) Kelp	2, Laterally inserted, Heterokont	Laminarin mannitol
(D) Polysiphonia	Absent	Floridean starch

50. Read the following statements and select the correct option.

A. Many species of Porphyra, Laminaria and Sargassum are among the 70 species of freshwater algae used as food.

B. At least a half of the total CO_2 fixation on earth is carried out by algae.

- (A) Only (A) is correct
- (B) Only (B) is correct
- (C) Both (A) and (B) are correct
- (D) Both (A) and (B) are incorrect