3 Plant Kingdom

- Artificial classification system is based on
 (Pg29, E)
 - A) Mainly on vegetative character and on the androecium structure
 - B) Ultrastructure, anatomical, embryological characters
 - C) External and internal features
 - D) Chromosome number.
- 2. George Bentham and Joseph Dalton Hooker gave (Pg30, E)
 - A) Artificial classification system
 - B) Phylogenetic classification
 - C) Natural classification system
 - D) A and B respectively
- 3. Choose incorrectly match option (**Pg30**, **E**)
 - A) Numerical taxonomy Number and code are assigned to all the character and the data are then processed
 - B) Cytotaxonomy Based on cytological information
 - C) Chemotaxonomy Based on phytochemistry
 - D) Natural classification Linnaeus
- 4. Phylogenetic classification (**Pg30**, **E**)
 - A) Based on evolutionary relationship
 - B) This assume that organism belonging to some taxa haven't a common ancestor
 - C) Gave equal weightage to vegetative & sexual character but not on evolutionary relationship
 - D) A and B both

Paragraph - 3.1

Algae

- 5. Blue green algae placed in which kingdom according to R.H. Whittaker
 - (Pg30, E)

- A) Monera
- B) Protista
- C) Fungi
- D) Plantae
- 6. Choose the correct statement algae:

(Pg30, E)

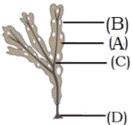
- A) Algae are chlorophyllous, autotrophic member of Plantae
- B) Some algae occur in association with fungi and on sloth bear
- C) The plant body of algae lack root, stem, leaf
- D) All of these
- 7. Colonial form alga is (Pg30, E)
 - A) *Ulothrix*
- B) Volvox

- C) Kelp
- D) Spirogyra
- 8. Zoospore is –
- (Pg30, E)
- A) Sexual spore in algae
- B) Asexual spore in algae
- C) Develop in zoosporangium in number of four
- D) Non flagellated spore
- 9. Fusion between one large static female gametes and smaller motile male gamete is termed as ___ as seen is ___ (**Pg30, E**)
 - A) Isogamous, Spirogyra
 - B) Oogamous, Volvox
 - C) Anisogamous, Fucus
 - D) Oogamous, *Ulothrix*
- 10. *Eudorina* show **(Pg30, E)**
 - A) Fusion of flagellate similar size gamete
 - B) Fusion of non flagellate similar size gamete
 - C) Oogamous
 - D) Anisogamous
- 11. How many of following is an example of isogamous *Ulothrix*, *Spirogyra*, *Volvox*, fucus, *Polysiphonia* (Pg31, M)
 - A) 1

B) 2

C) 3

- D) 4
- 12. Identify organism and label A, B, C, D (**Pg31, M**)



- A) Laminaria A = leaf B = air bladder C = stripe D = holdfast
- B) Fucus A = frond B = air bladder C = stripe D = Hold fast
- C) Fucus A = air bladder B = frond, C = midrib D = holdfast
- D) Laminaria A = leaf C = midrib D = petiole
- 13. Algae are useful to man in (Pg32, M)
 - A) Fixation of almost half of total CO₂ on earth
 - B) Primary producer
 - C) Increase level of oxygen
 - D) All of these
- 14. Hydrocolloids are produced by (Pg32, M)
 - A) Brown algae (algin), carrageen(red algae), Agar(brown algae)

- B) Brown algae (algin), Red algae (carrageen)
- C) Brown algae (algin, agar), Red algae (carrageen)
- D) None of these
- 15. Choose correct statement (Pg32, E)
 - A) Chlorella, a multicellular alga rich in protein
 - B) Chlorella & Spirulina are astronaut food because of their high carbohydrate, vitamin mineral but less protein
 - C) The product obtained by Gracilaria are used to grow microbes
 - D) Laminaria, Sargassum a member of Rhodophyceae are among 70 species of marine algae used as food

Paragraph - 3.1.1

Chlorophycease

16. Chlorophyceae are commonly called as-

(Pg32, E)

- A) Green algae
- B) Blue green algae
- C) Brown algae
- D) Red algae
- 17. Major pigment of Chlamydomonas -

(Pg32, E)

- A) Chlorophyll a, b
- B) Chlorophyll a, c
- C) Chlorophyll a, d
- D) Fucoxanthin, phycoerythrin
- 18. Choose incorrect statement about green alga- (Pg32, E)
 - A) The chlorophyll localised in definite chloroplast
 - B) Spirogyra have spiral chloroplast
 - C) Most member have one or more storage bodies i.e. pyrenoid localised in chloroplast
 - D) The cell wall is made of outer layer that is of cellulose and inner layer of pectose
- 19. Reproduction in green algae is/are -

(Pg32, E)

(Pg32, E)

- A) Isogamous
- B) Anisogamous
- C) Oogamous
- D) All of these
- 20. *Chara* is A) Common stonewort
 - B) Marine green algae
 - C) Unisexual algae
 - D) None of these
- 21. Flagellation in green algae is (Pg32, E)
 - A) 2 8, equal, apical
 - B) 2, unequal, lateral
 - C) 2 8, unequal, lateral
 - D) Absent

Paragraph - 3.1.2

Phaeophyceae

22. Phaeophyceae is commonly named as -

(Pg32, E)

- A) Green alga
- B) Brown alga
- C) Red algae
- D) None
- 23. Choose the correct statement from following (Pg32, M)
 - A) *Ectocarpus* is filamentous forms while kelps is profusely branched from
 - B) Kelps may reach a height of average 100cm
 - C) The plant body of brown algae is attached to substratum by stripe
 - D) Leaf like photosynthetic organ of brown algae is stripe
- 24. Major pigment found in Fucus is/are

(Pg32, E)

- A) Chlorophyll a, c
- B) Chlorophyll a, d
- C) Chlorophyll a, b
- D) Fucoxanthin and phycoerythrin
- 25. The color of brown algae depend upon

(Pg32, E)

- A) Amount of xanthophyll
- B) Fucoxanthin present in them
- C) Phycoerythrin and fucoxanthin ratio
- D) A & B both
- 26. Choose the correct about cell of brown algae **(Pg32, E)**
 - A) Cellulosic cell wall cover outside by align
 - B) Cellulosic cell wall with pectin and polysulphate esters
 - C) They have two flagella, equal sized and laterally inserted
 - D) A and C both
- 27. Dictyota is member of (Pg33, E)
 - A) Same member of Ectocarpus, Gelidium, fucus
 - B) Same member those having Caminaria or mannitol as stored food
 - C) Same member of Laminaria, Porphyra, ficus
 - D) Same member those having phycoerythrin as accessory pigment
- 28. Gametes of Sargassum are- (Pg 33, E)
 - A) Pyriform
- B) Cup shaped
- C) Ribbon shaped D) Discoid

Paragraph - 3.1.3

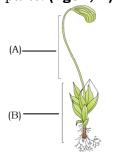
Rhodophyceae

- 29. Rhodopyceae is called red algae because of (Pg33, E)
 - A) Predominance of red pigment
 - B) Abundance if d phycoerythrin
 - C) A & B both
 - D) None of these
- 30. The stored food in *Polysiphonia* is ____A_ which is very similar to ____B__ and ___C__ in structure **(Pg33, E)**
 - A) A = floridean starch B = amylopectin C = glycogen
 - B) A = floridean starch B = chitin C = glycogen
 - C) A = mannitol B = floridean starch C = amylopectin
 - D) None of these
- 31. Member of Rhodophyceae reproduce by(Pg33, E)
 - A) Non motile asexual spore and motile sexual gametes
 - B) motile asexual spore and motile sexual gametes
 - C) Non motile asexual spore and non motile sexual gametes
 - D) motile asexual spore and non motile sexual gametes
- 32. Porphyra show -
- (Pg34, E)
- A) Isogamous
- B) Anisogamous
- C) Oogamous
- D) All of these

Paragraph - 3.2

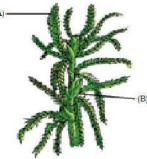
Bryophyta

- 33. Bryophyta include (Pg34, E)
 - A) Hornwort
- B) Liverwort
- C) Mosses D) All of these
- 34. Identify given plant diagram and label its parts: **(Pg34, E)**



- A) *Funaria*, A = gametophyte B sporophyte
- B) *Sphagnum*, A = gametophyte B = sporophyte
- C) *Funaria*, A = sporophyte B gametophyte
- D) *Sphagnum*, A = sporophyte B = gametophyte

- 35. Bryophytes are **(Pg35, E)**
 - A) Amphibians of plant kingdom
 - B) Reptilians of plant kingdom
 - C) First vascular bundles containing plant
 - D) A & C both
- 36. The body organization of bryophytes have (**Pg35, E**)
 - A) Unicellular or multicellular rhizoid
 - B) Less differentiation than algae
 - C) They have true root stem and leaves
 - D) A & C both
- 37. The main plant body of bryophyte is A that produce B (Pg35, E)
 - A) A = diploid B = gametes
 - B) A = haploid B = gametes
 - C) A = haploid B = spores
 - D) A = diploid B = spores
- 38. Choose the correct statement
 - A) Sex organs in bryophytes are unicellular and jacketed
 - B) Male sex organ is antheridium that produce flagellate (four flagella) antherozoids
 - C) Female sex organ is archegonium i.e. flask shaped and produce single egg
 - D) Water is required for travelling of egg from archegonium to antheridium
- 39. In bryophyta, meiosis occur (Pg35, E)
 - A) During development of gametes
 - B) Immediately after zygote formation
 - C) After sometime of zygote formation
 - D) In gameophytic stage
- 40. Identify the given diagram and label (**Pg34**, **E**)



- A) Sphagnum, a liverwort A = archegonia branch B = antheridial branch
- B) *Sphagnum*, a moss A = archegonia branch B = antheridial branch
- C) *Funaria*, a moss A = antheridial branch B = archegonia branch
- D) *Sphagnum*, a liverwort A = antheridial branch B = archegonia branch
- 41. Choose the correct statement with regard to bryophyta (Pg35, E)

- A) Sporophyte is free living but attached to photosynthetic gametophyte derives nourishment from it
- B) Sporophyte is not free living but attached to photosynthetic gametophyte and derives nourishment from it
- C) Gametophyte is not free living but attached to photosynthetic sporophyte and derives nourishment from it
- D) Gametophyte is free living but attached to photosynthetic sporophyte and derives nourishment from it
- 42. First organism to colonize rock are -

(Pg35, E)

- A) Mosses
- B) Lichen
- C) Liverwort
- D) A & B both
- 43. For trans shipment of living material which of following is more suitable to use

(Pg35, E)

- A) Marchantia
- B) Funaria
- C) Sphagnum
- D) Riccia
- 44. Which of the following is obtained from *Sphagnum* as coal: **(Pg35, E)**
 - A) Bituminous
- B) Peat
- C) Lignite
- D) Anthracite

Paragraph - 3.2.1

Liverwort

- 45. Choose the correct statement : (**Pg35, E**)
 - A) The thalloid plant body of liverwort is dorsiventrally appressed closely to substrate
 - B) The leafy members have tiny true leaf in two rows on the stem like structure
 - C) The leafy membrane have tiny leaf like appendage in four rows on the stem like structure
 - D) The thalloid plant body of liverwort is isobilaterally appressed closely to substrate
- 46. Asexual reproduction in bryophytes is not take place by **(Pg35, E)**
 - A) Fragmentation
 - B) Gemmae
 - C) Budding in secondary protonema
 - D) Oogamous
- 47. Gemmae are (Pg35, E)
 - A) Green, unicellular, asexual bud, develop in small receptacles i.e. gemma cup
 - B) Green, multicellular, asexual bud develop in small receptacles i.e. gemma cup

- C) Non green unicellular, asexual bud, develop in small receptacles i.e. gemma cup
- D) Green, multicellular, sexual bud develop in small receptacles i.e. gemma cup n
- 48. In Marchantia (Pg35, E)
 - A) Male and Female sex organs are produced on same thalli
 - B) Male and female sex organs are produced on different thalli
 - C) Gametophytes is differentiated into foot seta and capsule
 - D) Spores geminates to form free living sporophyte

Paragraph - 3.2.2

Mosses:

- 49. The predominant stage of life cycle of a moss is- (Pg36, E)
 - A) Gametophytes
 - B) Sporophytes
 - C) Protonema stage
 - D) Frothallus stage
- 50. The gametophyte of moss is divided into-

(Pg36, E)

- A) Two stage, first protonema stage which develops directly from gamete.
- B) Two stage, second leafy stage which develop from secondary protonema as a lateral bud.
- C) Two stage, first leafy stage and second protonema stage
- D) Two stage, first protenema stage which develops directly from spore and second leafy stage which develop from spore germination as terminal bud.
- 51. Protonema stage is (Pg36, E)
 - A) Creeping, green unbranched and frequently filamentous stage
 - B) Prostate, green, branched and frequently filamentous stage
 - C) Creeping, green, branched and frequently filamentous stage
 - D) Prostate, non green, unbranched and frequently stage
- 52. Choose the correct statement about leafy stage of mosses (Pg36, E)
 - A) They consist, upright, slender axes bearing spirally arranged leaves.
 - B) They are attached to soil through multicellular and branched rhizoid
 - C) This stage bear sex organ
 - D) All of these

- 53. In sexual reproduction which of following is not seen in mosses **(Pg36, E)**
 - A) Sex organ are produced at apex of leafy stage
 - B) After fertilization zygote develop into sporophyte
 - C) Development of embryo
 - D) All of these
- 54. The sporophyte of mosses (Pg36, E)
 - I) Is more elaborate than that is liverwort
 - II) Consisting of foot, seta and capsule
 - III) Spores present in capsule
 - IV) Spore produce after meiosis
 - V) Elaborate mechanism of spore dispersal
 - VI) Presence of peristomic teeth.
 - A) All are correct
 - B) I), II), III) only
 - C) IV), V), VI) only
 - D) I), III), V) only
- 55. Choose incorrect matched (Pg36, M)

	Column – A		Column – B
A)	Hornwort	i)	Marchantia
B)	Bryopsida	ii)	Polytrichum
C)	Liverwort	iii)	Marchantia
D)	Mosses	iv)	Sphagnum

Paragraph - 3.3

Pteridophytes

- 56. Pteridophytes includes (Pg36, E)
 - A) Horsetail
- B) Ferns
- C) Polytrichum
- D) A & B both
- 57. First terrestrial vascular plant is -
 - (Pg36, E)
 - A) Algae
 - B) Bryophyta (liverwort & hornwort)
 - C) Pteridophyta
 - D) Bryophyta (Mosses)
- 58. Choose the correct statement from following (Pg36, E)
 - A) The plant body is differentiated into true root, only true prostrate stem as in Selaginella and true leaf
 - B) The leaves of pteridophytes are small as in Selaginella or macrophyll in ferns.
 - C) Pteridophytes possess xylem, phloem
 - D) All of these
- 59. In pteridophyta (Pg36, E)
 - A) The main plant body is a sporophyte
 - B) The main plant body is a gametophyte
 - C) The main plant body is a gametophyte on which sporophytic phase is partially dependent
 - D) A & C

- 60. Choose the correct with regard to reproduction in pteridophyte (**Pg36**, **E**)
 - A) Sporophyte bear sporangia that are subtended by sporophyll
 - B) Gametophyte bear sporangia that are subtended by sporophyll
 - C) Sporophyll compact to form strobili as in fern
 - D) The sporangia produce spores by mitosis in spore mother cell
- 61. Gametophyte of pteridophyte is (**Pg36, E**)
 - A) Small but multicellular, free living, mostly photosynthetic, differentiated into root, stemand leaf
 - B) Small inconspicuous but multicellular dependent mostly photosynthetic thalloid body
 - C) Small but multicellular, free living mostly photosynthetic thalloid structure
 - D) Small inconspicuous but multicellular free living mostly non photosynthetic thalloid body
- 62. Water needed for fertilization in -

(Pg36, E)

- A) Eucalyptus
- B) Bryophytes
- C) Pteridophyptes
- D) B & C both
- 63. Sex organ bear on –
- (Pg36, E)
- A) Sporophytes
- B) Gametophyte
- C) On both gametophytes & sporophyte
- D) None
- 64. Heterosporous pteridophytes is/are-

(Pg36, E)

- A) Selaginella
- B) Salvinia
- C) Psilotum
- D) A & B both
- 65. Pteridophytes with all similar kind of spores is in (Pg36, E)
 - A) Terror of Kashmir
 - B) Psilotum
 - C) Selaginella
 - D) A & B both
- 66. Seed habit reported for first time is

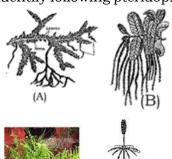
(Pg36, E)

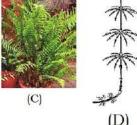
- A) Blue green algae
- B) Pteridophyte
- C) Angiosperm
- D) Bryophyta
- 67. Pteridophyte classification into (Pg36, E)
 - A) 4 classes
- B) 4 orders
- C) 4 families
- D) All of these
- 68. Adiantum is member with
 - rith **(Pg36, E)**
 - A) Pteris
- B) Equisetum
- C) *Lycopodium* 69. Match the following:
- D) Selaginella (Pg36, M)

Column – I

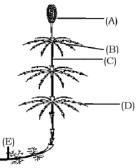
Column - II

- Sphenopsida
- A) Dryopteris
- Lycopsida ii)
- B) Selaginella
- iii) Psilopsida
- C) Psilotum
- iv) Pteropsida
- D) Equisetum
- A) A iv, B ii, C iii, D i
- B) A iii, B ii, C iv, D i
- C) A ii, B iii, C i, D iv
- D) A i, B iv, C ii, D iii
- 70. Identify following pteridophytes (Pg37, E)





- A) A = Salvinia, B = horsetail, C = fern, D = Selaginella
- B) A = Selaginella, B = Salvinia, C = fern, D = horsetail
- C) A = Equisteum, B = fern, C = Selaginella, D = horsetail
- D) A = Selaginella, B = Salvia, C = Dryopteris, D = Equisteum
- 71. Label A, B, C, D, E in following diagram: (Pg37, E)



- A) A = strobilus, B = rhizome,
- B) A = cone, C = Node, D = internode
- C) A = strobilus, B = rhizome, C = node, D = internode, E = branch
- D) None of these

Paragraph - 3.4

Gymnosperm:

72. Gymnosperms are plants in which -

- (Pg38, E)
- A) Ovules are enclosed by any ovary wall both before and after fertilization
- B) Ovules are not enclosed by any ovary wall both before and after fertilization
- C) Ovules are enclosed by any ovary wall before fertilization but not after fertilization
- D) Ovules are not enclosed by any ovary wall before fertilization but after fertilization
- 73. Tallest tree species belongs to (Pg38, E)
 - A) Angiosperm
- B) Gymnosperm
- C) Pteridophyte
- D) Algae
- 74. Fungi show symbiotic association with gymnosperm in form of -(Pg38, E)
 - A) Mycorrhiza in Pinus
 - B) Mycorrhiza in cycas
 - C) Coralloid rest in Pinus
 - D) Coralloid rest in cycas
- 75. The stem of -(Pg38, E)
 - A) Cycas is unbranched
 - B) Pinus is branched
 - C) Cedrus is branched
 - D) All of these
- 76. Needle-like leaves, thick cuticle, sucken stomata are character of -(Pg38, E)
 - A) Cycas
- B) Pinus
- C) Gnetum
- D) Ginkgo
- 77. Gymnosperms are (Pg38, E)
 - A) Heterosporous, haploid microspores and haploid megaspore
 - B) Homosporous, both spores are haploid
 - C) Heterosporous, both spores(microspores & megaspores) are diploid
 - D) None of these
- 78. Choose the correct statement (Pg38, E)
 - A) The male and female cones borne on same plant as in Cycas
 - B) The male and female cones borne on different plant as in Cycas
 - C) The male and female cones borne on same plant as in Pinus
 - D) Both A & C
- 79. Choose the correct about female cone of gymnosperm: (Pg38, E)
 - A) The nucleus is protected by bitegmic structure
 - B) The megaspore mother call divides mitotically to form four megaspores
 - C) One of four megaspores, enclosed within the megasporangium which develop into a multicellular female gametophyte that bear one archegonia
 - D) Ovule is unitegmic

80. Statement-I: The bearing cones megasporophyll with ovules are female cone

> Statement-II : The strobili bearing microsporangia are called male cone

(Pg38, E)

- A) Both stated statement are correct
- B) Both stated statement are incorrect
- C) Statement-I is correct while statement-II is incorrect
- D) Statement-I while is incorrect statement-II is correct
- 81. Identify given plant diagram and choose correct response (Pg39, E)



- A) Ginkgo, a living fossil
- B) Cycas, a living fossil
- C) Taxus
- D) Gnetum
- 82. What is difference between bryophytic and gymnospermous & gametophytes

(Pg39, M)

- A) Bryophytic gametophytes independent free-living structure while gametophytes of gymnosperm dependent
- B) Gametophyte of gymnosperm remain within the sporangia retained on sporophytes
- C) Both A & B
- D) None of these
- 83. Choose the correct set about given figure:

(Pg39, E)



- Pinnate leaves i)
- ii) Palmate leaf
- iii) Branched stem
- iv) Branching is same as in Cedrus
- v) Unbranched

- vi) Bear male cone and female cone on same plant
- vii) Bear male cone & female cone on different plant
- viii) It is living fossil along with Ginkgo
- A) i, iii, vi, viii
- B) i, v, vii, viii
- C) ii, v, vi D) i, iv, vii, viii
- 84. Anthoceros thallus and coralloid root of Cucas are (Pg39, E)
 - A) Similar in morphological structure
 - B) Performing N₂-fixing
 - C) Presence of vascular bundle
 - D) B & C
- 85. Gametophytes is parasitic over sporophytes is (Pg39, E)
 - A) Cycadales
- B) Coniferales
- C) Monocot
- D) All of these
- 86. The endosperm of gymnosperm represent

(Pg39, E)

- A) Female gametophyte
- B) Triploid structure
- C) Diploid structure
- D) A & C
- 87. Read the following statements and choose the incorrect response with respect to gymnospermous reproduction (Pg39, E)
 - A) Pollen grains are carried by air currents
 - B) Pollen tube carries the male gametes to archegonia
 - C) Following fertilization, zygote develop but embryo stage is lacking
 - D) Ovule develops into seed
- 88. All the given structure of *Pinus* and *Cycas* are haploid, except (Pg39, E)
 - A) Pollen grain
- B) Egg
- C) Nucellus
- D) Endosperm
- 89. Gymnosperm is example of (Pg39, E)
 - A) Vascular, embryophyte with ovule enclosed is ovary
 - B) Vascular, non-embryophyte
 - C) Non-vascular, non-embryophyte
 - D) Vascular, embryophyte
- 90. Vascular archegoniates with diplontic lifecycle are -(Pg39, E)
 - A) Bryophytes
- B) Gymnosperm
- C) Pteridophytes
- D) B & C

Paragraph - 3.5

Angiosperm:

- 91. Tallest and smallest plant species belonging to angiosperm is - (Pg40, E)
 - A) Sequoia and Wolffia
 - B) Eucalyptus and Wolffia
 - C) Sequoia and duck-weed

	D) None of these	C) Three male gamete is embryo sac					
92.	Dicotyledons and monocotyledons are two	D) More than one option is correct					
	of angiosperm (Pg40, E)	100. Syngamy is- (Pg41, E)					
	A) Family B) Class	A) Fusion of egg and 1st male gamete					
00	C) Order D) Division	B) Fusion of egg and 2nd male gamete					
93.	How many of following is correct about	C) Fusion of polar nuclei & 1st male					
	dicotyledons and monocotyledons	gamete					
	respectively (Pg40, E)	D) Both B & C					
	Seed with two cotyledons, trimerous,	101. Zygote is result of- Pg 41, E)					
	pentamerous, parallel veination	A) Syngamy B) Double fortilization					
	Seed with one cotyledons, tetramerous, reticulate veination	B) Double fertilizationC) Triple fusion					
	A) 4, 3 B) 3, 4	D) Both A & C					
	C) 2, 5 D) 5, 2	102. Fusion of 2 nd male gamete with diploid					
94	A group of plant flower with having three	secondary nucleus result in formation of-					
<i>)</i> 1.	members in each whorl is placed is-	(Pg41, E)					
	(Pg40, E)	A) PEN B) Embryo					
	A) Monocot B) Dicot	C) Both A & B D) Sporophyte					
	C) Tetramerous D) Both B & C	103. Double fertilization is- (Pg 41, E)					
95.	Choose the correct statement (Pg40, M)	A) Fusion of two nuclei of polar nuclei					
	A) Embryo sac develop from one	B) Fusion of male gamete with egg					
	functional megaspore(diploid) which	C) Fusion of male gamete with secondary					
	result from mitosis and degeneration of	nuclei					
	megaspore mother cell	D) Both B & C					
	B) Embryo sac of consist of one egg	104. PEN provide- (Pg 41, E)					
	apparatus, three antipodal cell and two	A) Protection of embryo					
	polar nuclei	B) Nourishment to embryo					
	C) Polar nuclei, antipodal cells, egg are	C) Anchorage to embryo					
	diploid structure of embryo sac of	D) None of these					
	angiosperm	105. Which of following structure degenerate					
06	D) Secondary nuclei is haploid	after fertilization- (Pg 41, E)					
96.	Secondary nuclei result from fusion is (Pg40, E)	A) Synergid B) Antipodal cell C) A & B D) Embryo					
	A) Polar nuclei and 1st male gamete	106. Angiosperm differ with gymnosperm-					
	B) Polar nuclei and 2nd male gamete	(Pg 41, E)					
	C) Both nuclei of polar nuclei	A) In presence of true root, stem & leaf					
	D) Egg apparatus and polar nuclei	B) Seed enclosed in fruit					
97.	Choose the correct sequence (Pg40, M)	C) Ovary enclosed in ovule					
	A) Gamete formation \rightarrow pollination \rightarrow	D) Both B & C					
	fertilization \rightarrow embryo \rightarrow new plant	107. Ovule develop into and ovaries					
	B) Gamete formation → transfer of gamete	develop into of angiosperm					
	→ fertilization → pollination → embryo	(Pg 41, E)					
	→ new plant	A) Seed, fruit B) Fruit, seed					
	C) Pollination → gametogenesis →	C) Fruit, fruit D) Seed, seed					
	fertilization \rightarrow embryo \rightarrow new plant	108. Pistil is- Pg 41, E)					
00	D) None of these	A) Female sex organ of flower					
98.	Microspore of angiosperm represent-	B) Male sex organ of flowerC) Non-reproductive organ of flower					
	(Pg40, E)	D) Divided into two part that are anther					
	A) Sporophytic phaseB) Gametophytic phase	and filament.					
	C) Both A & B	Paragraph - 3.5					
	D) Female gamete	i aragrapii - 0.0					
99.	Pollen tube in angiosperm discharge-	Angiosperm:					
	(Pg40, E)						
	A) One male gamete is embryo sac	109. Kelp, Polysiphonia, Ectocarpus, Fucus,					
	B) Two male gamete is embryo sac	Wolffian, Volvox					

How many of following are show haplontic, haplodiplontic and diplontic life cycle respectively (Pg42, E)

- A) 1, 3, 2
- B) 3, 1, 2
- C) 1, 2, 3
- D) 2, 3, 1
- 110. Mitosis is observed in- (Pg42, E)
 - A) Haploid plant cell
 - B) Diploid plant cell
 - C) Both A & B
 - D) Only vegetative cell
- 111. Choose correct statement about haplontic life cycle- (Pg42, E)
 - i) Sporophytic generation is represented by single cell zygote
 - ii) Free-living sporophyte
 - iii) Sporophyte is parasite on gametophyte
 - iv) Gametophyte arise from gametes after mitotical division
 - v) Example are Spirogyra and some species of Chlamydomonas
 - vi) Gametophyte arise from meiosis occur in spore-
 - A) i, ii, v, vi
- B) i, iii, v, vi
- C) iii, iv, v
- D) i, iii, iv
- 112. Eucalyptus show-
- (Pg42, E)
- A) Diploid dominant sporophyte that is photosynthetic and independent phase
- B) Gametophyte is represent by few diploid cell
- C) Dominant phase is gametophyte
- D) All of these
- 113. Gymnosperms are-

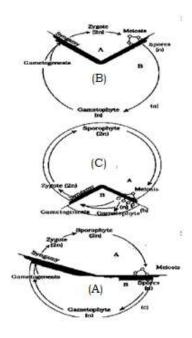
(Pg42, E)

- A) Haplontic
- B) Diplontic
- C) Haplo-diplontic D) Diplo-haplontic
- 114. Bryophytes and Pteridophyte exhibit-

(Pg42, E)

- A) Multicellualr sporophyte
- B) Multicellular gametophyte
- C) Unicellular sporophyte
- D) A & B both
- 115. Bryophytes and pteridophytes differ in their **(Pg42, E)**
 - A) Stage of meiosis
 - B) Dominant phases
 - C) Stage of syngamy
 - D) Stage of gametogenesis
- 116. In bryophytes **(Pg42, E)**
 - A) Sporophyte totally or partially dependent on the gametophyte for its anchorage and nutrition
 - B) Gametophyte totally or partially dependent on the sporophyte for its anchorage and nutrition
 - C) A dominant, independent, photosynthetic, thalloid haploid Sporophyte alternate with gametophyte

- D) A & C both
- 117. Choose the correct response with respect to pteridophyte lifecycle (Pg42, E)
 - A) Diploid gametophyte alternate with sporophyte
 - B) Sporophyte and gametophyte are independent
 - C) Sporophyte show saprophytic
 - D) Meiosis occur in gametophyte
- 118. The sporophyll of gymnosperms arranged on axis to from cones (**Pg42**, **E**)
 - A) Spirally
- B) Alternately
- C) Decussate
- D) Superposed
- 119. Identify life cycle pattern
- (Pg42, E)



- A) A = haplontic, B =haplo diplontic, C = diplontic
- B) A = haplontic, B = diplontic, C = haplo diplontic
- C) A = haplo diplontic, B =haplontic, C = diplontic
- D) A = as in *Volvox* and angiosperm, B = as in *Ectocarpus*, C = as in gymnosperm
- 120. Bryophyte attached to substratum by -

(Pg42, E)

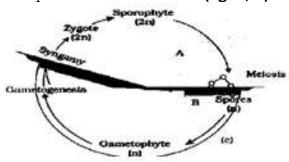
- A) Holdfast
- B) Rhizoid
- C) Root
- D) A & C
- 121. Brown algae focus attached to substratum by **(Pg42, E)**
 - A) Holdfast
- B) Stipe
- C) Frond
- D) Rhizoid
- 122. The plant body of liverwort is ___A__ whereas mosses have ___B__ bearing C arranged leaves (Pg42, E)

- A) A = dorsiventral, B = upright, slender axes, C = alternally
- B) A = isobilateral, B = upright, slender axes, C = spirally
- C) A = dorsiventral, B = isobilateral axes,C = alternately
- D) A = dorsiventral, B = upright, slender axes, C = spirally
- 123. Embryophytes doesn't includes
 - A) Algae, Bryophytes

(Pg42, E)

- B) Bryophyte, Pteridophytes
- C) Gymnosperm, angiosperm
- D) Algae only
- 124. Double fertilization does not occur in **(Pg42, E)**
 - A) Pteridophyte, some gymnosperm,
 - B) Monocot, dicot
 - C) Dicot, some gymnosperm
 - D) Bryophytes, pteridophyte, some gymnosperm & monocot

125. Identify following life cycle pattern and that pattern shown in (Pg42, E)



- A) Haplontic life cycle eg: Volvox
- B) Haplodiplontic lifecycle eg: Ectocarpus, Psilotum
- C) Haplodiplontic lifecycle eg: Fucus, Marchantia
- D) Diplontic lifecycle eg: Bryophytes, Pteridophytes

NEET MBBS DOCTORS

Answer key PLANT KINGDOM

Q	01	02	03	04	05	06	07	08	09	10
Ans	Α	С	D	D	A	D	В	В	В	D
Q	11	12	13	14	15	16	17	18	19	20
Ans	В	В	D	В	D	A	A	D	D	A
Q	21	22	23	24	25	26	27	28	29	30
Ans	A	В	A	A	D	D	В	A	A	A
Q	31	32	33	34	35	36	37	38	39	_
Ans	С	С	D	С	A	A	В	С	С	
Q	40	41	42	43	44	45	46	47	48	49
Ans	В	В	D	С	В	A	D	В	В	A
Q	50	51	52	53	54	55	56	57	58	59
Ans	В	С	D	С	A	A	D	С	D	A
Q	60	61	62	63	64	65	66	67	68	69
Ans	A	С	D	В	D	D	В	A	A	A
Q	70	71	72	73	74	7 5	76	77	78	79
Ans	В	D	В	В	A	D	В	A	В	D
Q	80	81	82	83	84	85	86	87	88	89
Ans	A	A	С	В	В	D	D	С	С	D
Q	90	91	92	93	94	95	96	97	98	99
Ans	В	В	В	A	A	В	С	A	В	В
Q	100	101	102	103	104	105	106	107	108	109
Ans	A	A	A	D	В	С	В	A	A	A
Q	110	111	112	113	114	115	116	117	118	119
Ans	С	В	A	В	D	В	A	В	A	С
Q	120	121	122	123	124	125				
Ans	В	A	D	A	A	В				

NEET MBBS DOCTORS