Reproduction in Plants

1.	This is immortal										
	*1) Bacterium	2) Sequoia		3) Banyan	4)Maı	ngife	ra			
2.	Reproduction in an o	organism is influ	uenced b	у							
	1) Habitat	2) Internal Ph	siology	3) Genes	*,	4) A	11				
3.	In asexual reproduct	ion,there is no i	nvolvem	ent of							
	1) Vegetative cells	2) Gametes		3) Spores	*4)Gametic unio						
4.	Cell division itself is	a mode of repr	oduction	in							
	1) Plantae	2)Animalia		*3)Monera	4) All	fung	gi			
5.	Binary fission is not	inary fission is not shown by									
	1) Euglena	2) Amoeba		3) Bacterium	*	4) V c	olvox				
6.	Budding is a method	l of asexual repr	roduction	n, carried out by							
	*1) Yeast	2) Bacteria		3) Plantae	4)Din	oflag	ellate	es		
7.	Chlamydomonas rep	oroduces by									
	1) Binary fission	2) Budding		*3) Zoospore form	nation 4	4)Ak	inete	es			
8.	Match the following										
	List – I		List – II		A	B	C	D			
	A) Offset	I) <i>B</i>	ryophyll	um	1)	II	III	IV	V		
	B) Runner	II) P	Pistia		2)	III	I	IV	II		
	C) Sucker	III S	trawberr	у	*3)	II	III	IV	I		
	D) Reproductive le	eaves IV N	Iusa		4)	I	II	IV	III		
		V) Z	inziber]						
9.	[A]: Spores are prod [R]: Microspores are 1) Both A and R are 2) Both A and R are *3) A is true but R is	e formed by equ true and R is th true but R is no s false	ational d ne correct ot the cor	explanation of A							
10.	Penicillium asexuall		7								
4	1) Ascospores	*2) Conidia		3) Zoospores	4)Apl	anos	pores	3		
11.	Bread mold produce	S									
	1) Zoospores	2) Buds		*3) Non-motile sp	ores 4) Co	nidia				
12.	These spores are formed exogenously										
	1) Buds	2) Zoospores		3)Aplanospores	*	4) C	onidi	a			

the

13.	Gemmae are vegetati	ively rep	roducing struct	tures of							
	1) Algae	2) Fung	gi	3)Pteridophytes	*	4) B	ryopł	iytes			
	[A]: Fragmentation is not shown by Monerans [R]: Monerans are unicellular Eukaryotes 1) Both A and R are true and R is the correct explanation of A 2) Both A and R are true but R is not the correct explanation of A *3) A is true but R is false 4) A is false but R is true Offspring obtained by asexual or vegetative reproduction is called										
	1) Germ plasm	*2) Clo	ne	3)Pureline	4)Inbredline						
16.	New plants are deve	loped fro	om the nodes of	of the following plan	ts wh	en tl	ney c	ome	in co	ontact with	
	soil and moisture.										
	I. Sugarcane	II. Pota	to	III.Dahlia	Γ	V. Ba	anana	ı			
	1)only I and II	2) II, II	I only	3) I, II, IV only	*	4) A	11				
17.	7. Adventitious buds are involved in asexual reproduction in										
	1) Sugarcane	2) Dahl	ia	3) Musa	*	4)Br	yoph	yllur	n		
18.	Match the following										
	Plant		Vegetat	ively reproducing sructure		A	В	C	D		
	A) Bryophyllum		I) Bulb		*1)	IV	III	II	I		
	B) Marchantia		II) Bulbil		2)	V	III	II	I		
	C) Agave		III Gemmae		3)	IV	V	II	I		
	D) Onion		IV Leaf		4)	IV	III	I	II		
			V) Root								
	 19. [A]: Aquatic plants organisms carry out sexual reproduction in favorable conditions. [R]: Water hyacinth reproduces both vegetatively and sexually 1) Both A and R are true and R is the correct explanation of A 2) Both A and R are true but R is not the correct explanation of A 3) A is true but R is false *4) A is false but R is true 20. Growth of water hyacinth in the water body leads to the death of fishes because it 										
	1) drains CO ₂ during	photosy	nthesis	*2) drains O ₂ during	g its r	espir	ation	l			
A	3) promotes the grow	th of oth	er plants	4) depletes the mine	eral n	utrie	nts in	the	wateı	r	
21.	Eichhornia was intro	duced in	to india becaus	e of its							
	I. Flowers	II. Root	ts	III.Stems	Γ	V. Le	eaves				
	1) I, II	2) II, II	I	3) III, IV	*	4) I,	IV				
22.	Choose the correct st	atement									
	1) Offspring formed	during se	exual reproduct	tion resemble each ot	her						

2) Individuals formed as a result of sexual reproduction resemble the parents in all aspects.

	*3) All the individuals formed as a result of asexual reproduction resemble each other.										
	4) Genetic recombina	ation occ	urs during asex	xual reproduction.							
23.	Choose the dioecious	organis	ms from the fo	llowing							
	I. Date palm	II. Coc	onut	III.Chara	IV	7. Ма	archa	antia			
	1) I, II	*2) I ar	nd IV	3) III, IV	4)	II, I	V				
24.	Choose the monoecid	ous plant	from the follo	wing.							
	*1) Chara	2)Marc	hantia	3) Date palm	4)	Pap	aya		4		
25.	One of the following	plants li	ves relatively f	For longer durations.					A		
	1) Carrot 2) Paddy			3)Wofia	*4	*4) Rose					
26.	Juvenile phase of a flowering plant is										
	1) Zygotic stage				2)	Stag	ge of	emb	ryoge	enesis	
	*3) Embryonal stage to vegetative maturity			stage	4)	Flov	werii	ng sta	age		
27.	Match the following			.		1					
	Plant			Propagule		A	B	C	D		
			I) Leaf buds		*1) 2)	IV V	III	II	I		
	B) Chara		II) Eyes				II	I	IV		
	C) Potato		III Fragment	ation	3)	IV	II	III	I		
	D) Bryophyllum		IV Sucker			IV	III	II	V		
			V) Offsets								
	[A]: All sexually repr [R]: All sexually repr 1) Both A and R are 2) Both A and R are *3) A is true but R is The period between t	roducing true and true but false	organisms for R is the correc R is not the cor	m embryo in their lift t explanation of A rect explanation of A 4) A is false but R	fe cycle A is true	,	cess				
	1) Reproductive phas	se		*2) Vegetative pha	ise						
	3) Maturity phase			4) Senescence phase	se						
30.	Vegetative, Reprodu	ctive an	d Senescent pl	nases are clearly not	ticed in	n the	life	cyc	le of	the fol	llowing
4	flowering plants										
	I. Annuals	II. Bier	nnials	III. Perennials							
	*1) I and II	2) II an	d III	3) III and I	4)	I, II	, III				
31.	It is perennial plant										
	1) Rice	*2) Baı	nboo	3) Carrot	4)	Mai	ze				

32.	Perennial plant that s	hows flo	wering	only on	ce in its life tim	e is					
	I. Agave	II. Bam	iboo		III.Mangifera						
	1) Only I	2) Only	/ II		3) I and III		*,	4) I,	II		
33.	The minimum time for	or vegeta	ative gro	owth in	Agave is						
	1) 5 years	2) 1 yes	ar		*3) 10 years		4)	40	years		
34.	Choose the incorrect	stateme	nt								
	1) Agave can show 2	5 years o	of veget	ative gr	owth						4
	*2) The flowering pe	riod of I	Bamboo	is longe	er than its veget	ative	perio	d			
	3) Annuals have disti	nct vege	etative a	nd repro	oductive phases.				A		•
	4) Biennials have dis	tinct veg	getative	and rep	roductive period	ls.					
35.	Strobilanthuskinthian	a (Neela	akurang	i) flowe	rs once in every		A				
	1) 12 months	*3) 12 years		4)) 2 y	ears					
36.	Match the following					M					
	List – I				List – II			A	В	C	D
	A) Homogametes		I) <i>Ch</i>				1)	II	IV	I	III
	B) Heterogametes		II) Mo	archant	la la	-	*2)	III	IV	II	I
	C) Antheridiophore	•) Cl	adopho	ra		3)	III	IV	II	V
	D) Oogonium		IV Pto	eris 🔥			4)	IV	III	II	I
			V) Ch	ilorella							
27	Minimum period of v	vocatativ	vo grovyt	h in Do	nhoo is						
31.	1) 100 years	2) 10 y		II III Dai	*3) 50 years		*.	4) 5 ,	years		
20	•	AW A		lv influ	•			+) 3 .	years		
38.	In plants sexual repro			•	•			4\ TT			
•	1) Light		erature		3) Water		* <i>'</i>	4) H	ormo	nes	
39.	Choose the correct st) A									
	I. Isogametes are seen	n in alga	.e		II. Heterogame	etes a	re see	n in	algae	•	
	III. Isogamgetes are s	seen in B	Bryophy	tes	IV. Heterogam	ietes a	are se	en ir	Pter	idop	hytes
4	1) I, II, III	2) II, II	I, IV		*3) I, II, IV		4)	All			
40.	Choose the wrong pa	ir									
	1) Papaya - dioecious	S			*2) Hibiscus -	Mono	oecio	us			
	3) Date palm - dioeci	ous			4) Coconut - M	Ionoe	ecious	S			
41.	Maize is										
	1) Heterothallic	2)Dioe	cious		*3)Monoeciou	S	4)) Pol	ygam	ious	

42.	2. Male gametes of the following plant are not called as antherozoids											
	*1) Cladophora	2) Mar	chantia	3) Pteris	4)Cyc	as					
43.	Cucurbits are											
	*1) Monoecious	2) Dioe	ecious	3) Polygamous	4)Syn	oecio	ous				
44.	Match the following											
	Plant		M	ain plant body		A	В	C	D			
	A) Bryophytes		I) Diploid		*1)	III	IV	I	II			
	B) Pteridophytes		II) Haploid		2)	III	V	I	II			
	C) Gymnosperms		III Haploid		3)	II	I	V	III			
	D) Algae		IV Diploid		4)	II	IV	Ш	I			
					-							
	45. [A]: Regular sequence is not followed in sexual reproduction. [R]: Sexual reproduction is a complex process 1) Both A and R are true and R is the correct explanation of A 2) Both A and R are true but R is not the correct explanation of A 3) A is true but R is false *4) A is false but R is true 46. Male gametes are always flagellated in											
	I. Bryophytes	III.Pteridophytes	I	V. A	lgae							
	1) I, II	2) III,I	V	3) II, III	*	4) I,	III					
47.	Pollen grains are carr	riers of n	nale gametes i	in								
	1) pteridophytes	2) only	Angiosperms	3) Only Gymnosp	erms *	4) S _l	perma	atoph	ytes			
48.	Male gametes and fe	male gar	netes are proc	luced almost in equal	l numbe	ers ir	1					
	1) Marchantia	2)Cucu	rbita	3) Date palm	*	4)Cl	adopl	hora				
49.	Motile male and fem	ale game	etes are seen i	n								
	1) Algae	2) Fung	gi	3) Bryophytes	*	4) 1	and 2	2				
50.	Plants with bisexual	flowers	show									
	I. Self pollination	7		II. Cross pollination	on							
	III. only cross pollina	ation		IV. Do not show p	ollinat	ion						
	*1) I, II	2) III		3) I	4) IV						
51.	The meiocytes in Em	bryopht	es are									
	1) Zygotes	2) Gam	ete mother ce	ells*3) Spore mother	cells 4)Mei	risten	natic	cells			
52.	In plants with diplon	tic life c	ycle the meiod	cyte is								
	*1) Gamete mother of	ells		2) Zygote								
	3) Spore mother cells	S		4) None								

 \mathbf{D} I II

V

53.	Match the following					_					
	List – l	[List – II			A	B	\mathbf{C}		
	A) Parthenogenesis			fertilization		*1)	V	III	IV		
	B) Syngamy		II) Internal	fertilization		2)	V	III	IV		
	C) Parthenocarpy		Fetilisation				IV	II	I		
	D) Synchrony sexes	between	IV Fruit) fertilisati		without	4)	II	III	IV		
		gg cell									
	54. [A]: Bryophytes show external fertilisation [R]: Amphibians of the plant kingdom have flagellated male gametes. 1) Both A and R are true and R is the correct explanation of A 2) Both A and R are true but R is not the correct explanation of A 3) A is true but R is false *4) A is false but R is true 55. Non-motile male gametes are carried to egg through water in										
	1) Dictos	S	*4) Re	d al	gae						
56.	Zygotic meiosis is no	3) Gymnosperm		MA	· ·	5***					
	I. Algae	II. Fungi		III.Bryophytes		IV.Pte	ridoj	phyte	es		
	*1) III,IV	2) II,III,I	V	3) I,III, IV		4) III,l	Ι				
57.	In the following plans	ts sepals re	emain attache	d to fruit even aft	er fertil	izatior	١.				
	I. Brinjal	II. Tomat	0.0	III. Mango							
	1) I, III	2) II, III		*3) I, II		4) I,II,	III				
58.	Vivipary is shown by										
	*1) Mangroves	2) All spe	ermatophytes	3) All pteridophy	ytes	4) Gyr	nnos	spern	ns		
59.	Smallest flowering pl	ant is									
	1) Lemna	*2)Wolfi	a	3)Cuscuta		4) Cro	ton				
60.	[A]: Double fertilization is seen in Angiosperms[R]: Fruits are produced in angiosperms1) Both A and R are true and R is the correct explanation of A										

- *2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false

4) A is false but R is true

61. Life cycle in angiosperms is

1) Haplontic *2)Diplohaplontic 3)Haplodiplontic 4)Diplontic

62. The structures of angiosperms in which meiosis is observed are

I. Microsporangium II. Ovules III.Thalamus IV. Styles

*1) I,II 2) III, IV 3) II, III 4) I, IV

63. Tallest tree is a

*1) Dicot 4) Cryptogam 2) Monocot 3) Gymnosperm

64. Triploid structure in an angiosperm is

	*1) PEN	2) Emb	ryo	3) Fruit	4)) Flo	wer				
65.	Gametophytes are pa	rasitic o	n sporophyte in	l							
	I. Gymnosperms	II. Ang	iosperms	III.Pteridophytes	I	V. Bı	yoph	ytes			
	1) I, III	2) II, IV	I	3) III, IV	*/	4) I,	IV				
66.	Maheswari, the fathe	r of India	an Embryology	was inspired by							
	1) Iyengar	2) Birba	alSahni	*3) W. Dudgeon	4)) Frit	sch				
67.	Artificial culture of in	mmature	embryos was i	initiated by							
	1) Shimakura	2)Nitsc	h	*3)Maheswari	4)) Du	dgeoi	\mathbf{n}			
68.	This contribution of I	is contribution of Maheswari won worldwide acc									
	I. Anther culture			II. Test tube fertiliz	ation		4				
	III. Intraovarian polli	nation		IV. Ovule culture			D				
	1) I and III	*2) II a	nd III	3) II, III, IV	4)	All					
69.	Reproduction enables										
	1) continuity of cell of		2) vegetative growth of plant								
	*3) continuity of spec	cies		4) change in metabo	olic ac	ctivit	y of s	speci	es		
70.	During reproduction,	complet	netes is not seen in								
	*1) Bacteria	2) Alga	e e	3) Fungi	4)) Bry	ophy	tes			
71.	Asexual reproduction	due to ι	unequal divisio	n is seen in							
	1) Bacteria	*2) yea	sts	3) Chlamydomonas	4)	Bre	ad m	old			
72.	Spores help in	*									
	I. reproduction of an	organisn	n	II. Spread of the species into new areas							
	III. survival of the sp	ecies in	unfavourable c	onditions.							
	IV. formation of emb	ryo upoi	n their germina	tion.							
	1) I, IV	2) II,III	, IV	*3) I, II, III	4)	onl	y II, I	III			
73.	Match the following										
-00	Plant			Life span	4.	A	В	C	D		
4	A) Banyan tree		I) 400 years		1) *2)	III	II	V	I		
	B) Woffia		II) 6 years			I	IV	III	II		
	C) Carrot		1 year		3)	II	IV	III	Ι		
	D) Rose plant		IV 15 days		4)	I	V	III	II		
			V) 50 years								

- 74. [A]: Prof. Maheswari popularized the embryological characters in Taxonomy. [R]: He established department of Botany in University of Delhi as an important center for Taxonomy. 1) Both A and R are true and R is the correct explanation of A
 - 2) Both A and R are true but R is not the correct explanation of A

*3) A is true but R is false

4) A is false but R is true

75. Among the following choose the haploid structures

I. Male gamete II. Pollen III. Ovary IV. Egg

1) I, II, III 2) II, III, IV *3) I, II, IV 4) only II, III

76. The diploid structures of a flowering plant

1) Megaspores 2)Synergids *3)Nucellus 4) Polar nucleus

77. The life span of Pinus is

1) Less than 300 years 2) Less than 100 years

3) more than 200 years *4) 600 years

78. The following method of asexual reproduction replaces sexual reproduction

1) Zoospore formation *2)Apomixis

3)Parthenocarpy 4) Conidia formation.

79. These are produced only due to mitosis but not by meiosis

1) Zoospores 2) Aplanospores *3) Conidiospores 4) Microspores

80. This is mechanical method

*1) Fragmentation 2) Conidiospore formation

3) Budding 4) zoospore formation

81. The asexual reproductive structures that can be formed in cup like structures are

1) Zoospores *2)Gemmae 3)Aplanospores 4) Buds

83. Match the following

82.

List – I	List – II
A) Zygote	I) Male gametophyte
B) PEN	II) Female gametophyte
C) Embryosac	III Product of Syngamy
D) Pollen tube	IV Product of male gamete and) secondary nucleus fusion
	V) Product of asexual reproduction

*1) III IV II I
2) V IV I II
3) IV V II I
4) II IV II I

84. [A]: Chara is a dioecious

[R]: It has both oogonium and antheridium on the same plant

- 1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A

3) A is true but R is false *4) A is false but R is true

85.	Swarm spores are for	med in								
	I. Algae	II. Fung	gi	III.Bacteria	ľ	V. Bı	yopł	ytes		
	1) I, II, IV	2) II, II	I, IV	*3) I, II, III	4) I, Il	I, III,	IV		
86.	The ratio between sy	nergids,	egg cell and an	tipodals in an embry	osac i	s				
	1) 3:1:3	*2) 2 :	1:3	3) 2:1:2	4	3:	2:3			
87.	Meiosis takes place o	only duri	ng spore format	tion in						
	I. Algae	II. Fung	gi	III.Angiosperms	ľ	V. G	ymno	sper	ms 🤚	
	1) I and II	*2) III,	IV	3) II, III, IV	4) I, II	I, III		A	
88.	Life cycle in Angiosp	perms is								
	1) Haplontic	2)Diplo	ontic	3)Haplodiplointic	*,	4)Dij	ploha	plon	tic	
89.	Ratio between the number of cells in male ga			ametophyte and fema	ale gai	neto	phyte	e of a	ingios	sperms is
	1) 3:8	2) 1 : 2		*3) 3:7	4	4:	7			
90.	Sepals remain attache	ed to the	fruit even after	fertilization in						
	1) China-rose	2) Rose	;	*3)Brinjal	4) All				
91.	Embryogenesis is no									
	I. all sexually reprodu	II. All bacteria								
	III. All algae			IV. All fungi						
	1) I, II	2) I, III	, IV	*3) II, III, IV	4) I, II	I, III,	IV		
92.	Match the following				1					
	List – I		VICTORIA, INTERNATION	List – II	*1\	A	В	C	D	
	A) Dimorphic spore	formed	I) Chlamydo		*1)		III	II	I	
	B) exogenously		II) Pteridophy	ytes	2)	V	III	II	I	
	C) Swarm male gan	metes	III Penicilliur	m	3)	III	II	I	IV	
	D) Swarm asexual	spores	IV Gymnospe	erms	4)	IV	II	III	I	
		<u></u>	V) Rhizopus							
93.	[A]: Pollination is no [R]: Microspores are 1) Both A and R are 2) Both A and R are	not prod	luced in vascula R is the correct	explanation of A	Λ					
04	*3) A is true but R is Archegoniophore is s			4) A is false but R	is true					
74.			·chantia	3)Chara	A.	λ 11				
05	1) Riccia Stem is the vegetative	,		·	4) All				
IJ.	Stem is the vegetative 1) Sugarcane	ery propa 2) Bana		3) Ginger	*	4) all	1			
	1) Sugarcane	2) Dana	u	J) Omger		т <i>ј</i> ап	L			

96. (Clone is											
]	I. Offspring formed due to vegetative reproduction											
]	II. Offspring formed	due to asexual re	eproduction									
]	III. Offspring formed	due to sexual re	production									
1	1) I, II, III	2) only I	3) only II and III	*,	*4) I and II							
97. 4	Axillary buds are not	the vegetatively	propagating structures in									
>	*1) Bryophyllum	2) Potato	3) Onion	4)Pist	ia		4				
98.	These are specialized	structures detac	hed from the parental plant	by fra	ıgme	ntati	on.	•				
1	1) Eyes	2) Bulbs	*3)Gemmae	4) Bu	ds						
99. 7	The next flowering in	Strobilanthusku	anthiana can be expected in	the ye	ear							
1	1) 2019	2) 2020	*3) 2018	4	201	16						
100.1	Minimum period of v	egetative growth	n for Agave is									
>	*1) 10 years	2) 30 years	3) 50 years	4	100) yea	rs					
101.1	Match the following											
	List	- I	List – II		A	В	\mathbf{C}	D				
	A) Sub-aerial stem vegetative propa		I) Bryophyllum	1)	I	III	V	II				
	B) Aerial stem vegetative propa	involved in agation	II) Terror of Bengal	*2)	II	III	IV	I				
	C) Underground sto	em involved in	III Agave Americana	3)	III	II	IV	V				
	D) Stem not involve propagation		IV Solanumtuberosum	IV Solanumtuberosum 4) II								
	<u> </u>	TAVE	V) Grapes									