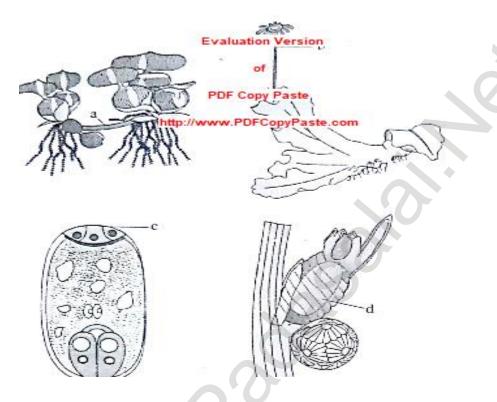
SECTION C: PREVIOUS YEARS' EXAMINATION QUESTIONS

1. Examine the figures (a--d) given below and select the right option in which all the four structures are identified correctly. (2010)



- a) a—Rhizome,b---Sporangiophore, c—Polar cell, d—Globule
- b) a—Runner, b—Archegoniophore, c—synergid, d—Antheridium
- c) a—Offset, b—Anthridiophore, c—Antipodals, d—Oegonium
- d) a—Sucker, b—Seta, c—Megaspore mother cell, d—Gemma cup
- 2. Roots are used invegetative propagation of
 - a) Ginger b) Chrysanthemum c) S
 - c) Sweet potato d) Potato
- 3. Vegetative propagation in Pistai occurs by
 - a) Sucker b) Runner c) Offset d)Stolon
- 4. Which is wrongly matched?
 - a) Agave bulbils

a) Mosses b) Algae

(2013)

	b) Penicillium – oc) Water hyacintld) Bryophyllum -	<mark>n – runner</mark>			
5.	Human gamates d	liffer from all	other body	cells in being	(2013)
	a) <mark>Haploid</mark>	b) diploid	c) motile	d)wit	hout cell wall
6.	Match the following	ng and choos	se the correc	t combination	(2013)
	Name	Chro	omosome nu	ımber in Mei	ocyte (2n)
	a) Houseflyb) Fruitflyc) Appled) Maize	1) 20 2) 34 3) 8 4) 12			
	a) a—1, b—2,c—b) a—2, b—3, c—c) a—3, b—4, c—d) a—4, b—3, c—e) a—4, b—3, c—	-4, d-1 -2, d-1 -1, d-2			
7.	process of sexual	reproduction	which invol	lves meiosis a	nd syngamy is (2013)
	a) Apomixis	b) Amohim	ixis c) A	gamospermy	d)Diplospory
8.	A polyestrus anin	nal is			
	a) Man b) Ca	at <mark>c) Ra</mark>	ıbbit	d) Horse	

10.In which of the following sets of organisms, does the external fertilization occur?

c) Ferns

d) Fungi

9. Syngamy can occur outside the body of the organism in

á	a) E	Echinodermata	and moss				
1	b) Hemichrodata and fern						
(c) Amphibian and algae						
(d) Reptile and gymnosperm						
11 /	Con	nata ganagia rat	fara ta tha pro	20000	c		
		netogenesis ref	-	ocess o	l		
		Fusion of two g					
		Fusion of two grown of varions of various of		amatas			
		Formation of m					×
,	u) 1	offilation of it	iale gainales	Omy			
12.]	Mar	chantia is cons	sidered hetero	othallic	because it	is	(2014)
ä	a) F	Heterogametic	b) bis	exual		*	
(c) M	Ionoecious	d) Die	oeciou	S		
13.	The	motile reprodu	uctive structu	ires of	algaeanf fu	ngi, wh	ich directly give
1	rise	to new individ	luals are calle	ed	-0		(2014)
		Lygospores		X	c) Cysts	·	onidia
14.	Whi	ch of the follo	wing pairs is	not co	rrectly mat	ched?	(2015)
		Mode of rep	production		Example		
		a) Rhizome			Banana		
		b) Binary fi	4		sargassum	1	
		c) Conidia	N		penicilliur		
		d) Offset			water hya		
			<i>></i>		3		
15.5	Stro	bilanthuskuntl	niana flowere	ed in th	e nilgiri in	2006. W	Then is it
(expe	ected to flower	again				(2015)
ć	a) 2	2015	b) 2018	c)202	1 d)20	024	
16.]	In d	iplontic life cy	cle, meiosis	occurs	during		(2015)
í	a) Z	Zoospore form	ation	b) Zy	gote develo	pment	
(c) sr	oore germinati	on	d) gar	<mark>nte formati</mark>	on	
	/ - I			- / G			

17. Which one of the following	characteristics	is not	shared by	birds	and
mammals?					

- a) Viviparity
- b) Warm blooded nature
- c) Ossified endoskeleton
- d) Breathing using lungs
- 18.In bryophytes and pteridophytes, transport of male gamtes requires

(2016)

a) Birds

b) water

c) wind

d) insects

SECTION D: CHAPTER -END TEST

- 1. Number of chromosomes in the meiocyte of onion. Potato, housefly, humans and Ophioglossum respectively are
 - a) 32, 24, 12, 46, 1260
 - b) 16, 12, 6, 23, 630
 - c) 16, 48, 12, 46, 1260
 - d) 32, 48, 12, 46, 1260
- 2. During his college days PanchananMaheswari was in spired by an American missionary teacher.
 - a) Dr. W. Dudgeon
 - b) T.R. Malthus
 - c) Charles lyell
 - d) Charles Darwin and Francis Darwin
- 3. P. Maheswari encouraged general education and made a significant contribution to school education by his leadership in bringing out the first textbooks of Biology for Higher Secondary School published by NCERT in

- a) 1964 b) 1966 c) 1974 d) 1986
- 4. Animals which possess cleidoic eggs exhibit
 - a) External fertilization and internal development
 - b) Internal fertilization and internal development
 - c) Internal fertilization and external development
 - d) External fertilization and external development
- 5. In grafting, stock is
 - a) Stem of desired variety
 - b) Bud of desired variety
 - c) Part of rooted plant
 - d) Part of to grafted
- 6. Identify the correct statement.
 - a) Because of marked climatic variations, plants growing near the sea shore do not produce annual rings
 - b) The age of the plant can be determined by its height
 - c) Grafting is difficult in monocot plants as they have scattered vascular bundles
 - d) Healing of damaged tissue is because of activity of sclerenchyma cells
- 7. Grafting is not possible in monocots as they
 - a) Lack cambium
 - b) Are herbaceous
 - c) Have scatterd vascular bundles
 - d) Have parallel venation
- 8. Which type of fertilization is found in most of the algae?
 - a) External b) internal c) both a&b d) none of the above
- 9. Plants with poor root system are propagated through
 - a) Layering b) leaf cuttings c) stem cuttings d)grafting

- 10.During favourable condition the ecysted amoeba divides by multiple fission and produces pseudopodiospores. This phenomenon is known as
 - a) Budding
- b) Sporulation
- c) Fragmentation
- d) Regeneration
- 11. Artificial vegetative reproduction through cutting of roots is carried out in
 - a) Lemon and rose
 - b) Rose and Hibiscus
 - c) Tamarind and Chrysanthemum
 - d) Lemon and Tamarind
- 12. Recognise the figure and find out the correct matching.

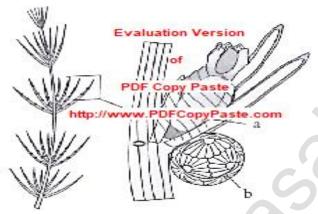


- a) a—conidia, b—budding, c—gemmules, d—zoospores
- b) b—conodia, c—budding, a—gemmules, d—zoospores
- c) b—conodia, d—budding, d—gemmules, a—zoospores
- d) a—conodia, d—budding, d—gemmules, a—zoospores
- 13. The internal buds of fresh water sponges are otherwise called
 - a) choanocyte
- b) Gemmule
- c)osculum d)Blastula
- 14.Grafting id not successful is monocotsbut is successful in dicots because they have
 - a) Vascular bundles arranged in a ring
 - b) Cambium for secondary growth
 - c) Vessels with elements arranged end to end

15.A) Cork cambiur scion is grafted enotype of		Quality of fru	its produced	will depend upon
a)) Scion	b)stock	c) both a&l	d) N	one of the above
16.S	tem cutings are	commonly us	sed in the pro	pagation of	
a)) Mango	b) cotton	c) ro	<mark>se</mark> d)ba	nana
17.N	laximum life sp	an of a dog in	years is		
a)	b) 5	0 c)	15	d)20	
18.B	inary fission is	a type of			*
b c	Vegetation prAsexual reproSexual reprodNuclear fragn	duction uction	C.	9	
19.P	lant propagated	by leaves is	9.0		
a)	Kalanchoe	b) A	gave	c) potato	d) Gladiolus
20.P	otatoes are culti	vated by			
a)) Seeds	b) tuber	c) bu	ids and tuber	s d)bud
	n vegetative pro nrough generation		ibers, which	offollowing	remains constant
\mathbf{a}) Morphology		b) vigour o	nly	
) vigour and mo <mark>esistance</mark>	rphology only	d) morphol	<mark>ogy, vigour a</mark>	and disease

22. Induction of rooting on stems before separating them from parent plant is

- a) Grafting b) layering c) Cutting d) Root-stem joint 23.Mango and Guava are propagated through
 - a) Tissue culture b) Grafting c) Steam Cuttings d) Layering
- 24. Chrysanthemum multiplies vegetatively by
 - a) Suckers b)Runners c)Bulbils d) Rhizomes
- 25.Recognise the figure and find out the correct matching.



- a) a—oogonium (male sex organ), b—antheridium(female sex organ)
- b) a—antheridium (female sex organ), b—oogonium (male sex organ)
- c) a—oogonuium (female sex organ),b—antheridium (male sex organ)
- d) a—antheridium (male sex organ), b—oogonium (female sex organ)
- 26. Out of the following two methods yield genetically similar plants:
 - i. Stem cuttings ii. Seed production
 - iii. Mutation iv. Tissue culture
 - a) i and ii b) ii and iii c) i and iv d) ii and iv
- 27.clone is a group of individuals got through
 - a) self pollination b) cross pollination
 - c) vegetative pollination d) hybridisation
- 28.a piece of potato tuber will form a new plant if it has

a) braches b) stored for	ood	c) roots	d) scales/eyes				
29.layering is used for vegetative propagation of							
a) rose b) jasmine	c) mango	d) all the ab	oove				
30. Match the columns I and II, a	d choose the	correct comb	ination from the				
options given.							
Column I	Column II						
1. Coconut	a. Monoecio	ous	. 01				
2. Papaya	b Dioecious	S					
3. Tapeworm .							
4. Earthworm		*					
a) a—1,b—2, a—3, b—4			♦				
b) b—1, a—2, b—3, a—4							
c) a—1, b—2, a—3, a—4							
d) a—1, b—2, b—3, b—4							
31.Monoestrous animals have	1						
a) One ovulation each month							
b) One egg							
c) One breeding seasons in a y	<mark>/ear</mark>						
d) One menses each month							
32.A quicker regeneration of gras	s leaves shall	occur by					
a) Cutting b) grazing c) irr	igation <mark>d) cli</mark>	<mark>pping</mark>					
33.A plant expected to have an egg of 1500 years is							
a) Eucalyptus b) se	<mark>quoia</mark>						
c) Mangiferaindicad) Dalbergi	asisso						
34. Which is not a method of vegetative propagation?							
a) Micropropagation b) bu	dding	c) sowing	d) layering				

35. Which one is found on	aly in aquatic plant?	
a) Runner b) s	stolon c)tuber	d) offset
36.Eye of potato is		
a) Apical bud b) a	axillary bud	
c) accessory bud d) a	adventitious bud	
37.Individuals of a clone	have	
a) Same ageb) Same heightc) Same genomed) Same number of lease	aves	
38. Water hyacinth is one wherever there is	of the most anvasive	weeds found growing water
a) Standing water	b) running water	
c) marine water	d) unpolluted wat	er
39.Clone formation occura) Conjugation b)toc) binary fission d)a		
40.Asexually produced or	ganism inheriting all	the characters of the parent is
a) Offspring b) o	<mark>clone</mark> c) variety	d) hybrid
41. Type of asexual reproc	duction found in Hyd	ra is
a) Gemmule formationc)binary fission	n b)Sporulation d)budding	

42.A population of genetically identical individuals obtained fom asexual reproduction is							
a) Callus b) clone	c)deme	d) aggregate					
43.In majority of sexually reproducing organisms, the gamates produced are of two morphologically distinct types called							
a) Antherozoids b) he	terosomes	c)heterogamtes	d)homogamtes				
44.Estrous cycle is indication	ons of						
a) Breeding period	b) estrogen	secretion	•				
c) pregnancy	d)menopau	se					
45.Estrous cycle is a characteristic of							
a) Human females		7					
,	b) Mammalian femalesc) Mammalian females other than primates						
d) Mammals	outer than pr	mates					
46.Menstrual cycle occurs in							
a) Female primates	b) human fe	emales					
c) mammalian females	d) rabbit						
47. Many mammals which are reproductively active through out their reproductive phase are called							
a) Continuous breeders							
b) Seasonal breeders							
c) Reflex breedersd) Spontaneous breeder	C						
a) Spontaneous breeder	o.						

- 48. Syngamy means
 - a) Fusion of gamates
 - b) Fusion of cytoplasms
 - c) Fusion of two similar spores
 - d) Fusion of dissimilar spores
- 49. Development of an organism from female gamate/egg without involving fertilization is
 - a) Adventive embryony
 - b) Polyembryony
 - c) Parthenocarpy
 - d) Parthenogenesis
- 50. The term parathenogenesis was coined by
 - a) Grobber b)Balfour c)Boveri d)Owen