## 6. REPRODUCTION IN PLANTS TEACHING TASK

1.	The function of suspensor of the en	nbryo is	
	A) Absorption of nutrients	•	condary embryos
	C) Pushing the embryo in to the nut		
Corr	ect Answer: (C) Pushing the embryo	o into the nutritive	tissue
Expl	anation:The suspensor helps position	on the developing e	mbryo properly within
the s	seed.		
2.	The first division of zygote in dicots	and monocots in no	ormally
	A) Transverse B) Longitudinal	C) Oblique	D) Meiotic
Corr	rect Answer: (A) Transverse		
Expl	anation: The zygote typically divides	transversely to for	m basal and apical
cells			
3.	Polyembryony was first reported in		
	A) Citrus B) Mango	C) Cocos	D) Opuntia
	ect Answer: (D) Opuntia		
Expl	anation:Polyembryony (multiple em	.bryos) was first obs	served in Opuntia
spec			
	The lower cell of suspensor lying ab	ove the embryonal	cell (apical cell) during
emb:	ryogeny in dicot is		
	, , , , ,	C) Hypocotyl	D) epiblast
	ect Answer: (B) Hypophysis		
	anation:The hypophysis gives rise t	o parts of the root s	system.
	The word scutellum refers to		
	A) Embryo of dicot	,	ot of monocot embryo
	C) Outer most layer of endosperm in	n cereals	
_	D) cotyledon of monocot embryo		
	ect Answer: (D) cotyledon of monoc	_	
_	<b>anation:</b> Scutellum is the single cot	yledon in monocots	s that absorbs
	ients.		' 11 1
6.	Remains of second cotyledon which	_	
0	A) Coleoptile B) Hypophysis	C) epiblast	D) Scutellum
	ect Answer: (C) epiblast		
_	anation: Epiblast is a vestigial seco	na cotyleaon in soi.	ne grasses.
7.	The term "Tigellum" refers to		
	A) Axis of the embryo B) Part of embryonal axis below the	actuladanami nada	
	C) Part of the embryonal axis above	· ·	ode
	D) Upper cell of suspensor of dicot e		oue
Corr	ect Answer: (A) Axis of the embryo	Ambryo	
	<b>Lanation:</b> Tigellum is the main embr	vonic avis includin	a nlumule and radicle
8.	Which of the following is generally of	•	
	tative rolongation	onsidered as artifle	ad inclied of
_	A) Cutting B) Layering	C) Grafting	D) All the above
	in carries Di Bayering	o, araims	2,111 010 0000

**Correct Answer:** (D) All the above **Explanation:** Cutting, layering and grafting are all artificial propagation methods. 9. Nuclear or cellular nature of endospenrm can be known at a stage B) Cordate stage of embryo A) Mature C) Beginning of divisions in embryo D) Following division of primary endosperm **Correct Answer:** (D) Following division of primary endosperm nucleus **Explanation:**Endosperm development begins after primary endosperm nucleus division. 10. Perisperm is A) Outer part of embryosac B) Degenerate synergid C) Degenerate secondarynucleus D) Remains of nucellus Correct Answer: (D) Remains of nucellus **Explanation:**Perisperm is persistent nucellus tissue in some seeds. 11. Development of seedless fruit in an unfertilized flower is called A) Parthenocarpy B) sporophytic budding C) PolyembryonyD) Micropropagation **Correct Answer:** (A) Parthenocarpy **Explanation:** Parthenocarpy produces fruits without fertilization. 12. Fusion of a male gamete with egg in embryo sac is A) Autogamy B) Syngamy C) Double fertilization D) Triple fusion Correct Answer: (B) Syngamy **Explanation:** Syngamy refers specifically to egg-sperm fusion. 13. Identify the wrong statement regarding post fertilization development A) Ovary wall develops into pericarp B) Outer integument of ovule develops into tegmen C) Fusion nucleus (Triple nucleus) develops into endosperm D) Ovule develops into seed **Correct Answer:** (B) Outer integument of ovule develops into tegmen **Explanation:**Outer integument becomes testa, inner becomes tegmen. 14. During development of male gametophyte from pollen mother cell, there occurs A) Two meiotic divisions and one mitotic division B) Two mitotic divisions C) One meiotic and two mitotic divisions D) One meiotic cell division and one mitotic cell division Correct Answer: (C) One meiotic and two mitotic divisions **Explanation:**PMC, meiosis, microspores, mitosis, 2-celled pollen, mitosis, 3celled. 15. Pericarp of fruit develops from A) Wall of ovary B) Nucellus C) Funicle D) Seed coat Correct Answer: (A) Wall of ovary **Explanation:**Pericarp forms from ovary wall layers.

16. Embryo sac develops from megaspore mother cell through

A) 1 meiosis and 2 mitosis

B) 1 meiosis and 3 mitosis

C) 2 meiosis and 2 mitosis

D) 2 meiosis and 3 mitosis

**Correct Answer:** (B) 1 meiosis and 3 mitosis

**Explanation:** MMC, meiosis, megaspore, 3 mitoses, 8-nucleate sac. 17. What statement is true about microspore of angisperms A) Resultant of mitotic division B) First cell of gametophytic generation C) Resultant of double fertilization D) First cell of endosperm Correct Answer: (B) First cell of gametophytic generation **Explanation:** Microspores begin the male gametophyte phase. 18. Which one is surrounded by cellulose wall A) Male gamete B) pollen grain D) Microspore tetrads Correct Answer: (D) Microspore tetrads **Explanation:** Tetrads have callose walls, others have different wall types. 19. Doulbe fertilization and triple fusion were discovered by A) Hofmeister B) Nawaschin and Guignard C) Leeuwenhoek D) Strasburger Correct Answer: (B) Nawaschin and Guignard **Explanation:** They discovered these processes in 1898-1899. 20. Parthenocarpic fruits are produced by A) Treating plants with phenyl mercuric acetate B) Treating plants with low concentrations of gibberellic acid and auxin C) Removing androecium of flowers before release of pollen grains D) Raising plants from vernalised seeds. Correct Answer: (B) Treating plants with low concentrations of gibberellic acid and auxin **Explanation:** Hormone treatments can induce parthenocarpy. 21. Cleistogamous flowers are A) Wind pollinated B) Insect pollinated C) Bird pollinated D) Self pollinated **Correct Answer:** (D) Self pollinated **Explanation:** Cleistogamous flowers never open, ensuring selfing. 22. In angiosperm ovule, central cell of embryo sac, prior to entry of pollen tube, contains A) Two haploid secondary nuclei B) One diploid secondary nucleus C) Single haploid nucleus D) One diploid and one haploid nuclei Correct Answer: (B) One diploid secondary nucleus **Explanation:**Two polar nuclei fuse to form diploid secondary nucleus. 23. Phenomenon of polyembryony was first observed in A) Citrus B) Cucurbita C) Mangifera D) Euphorbia Correct Answer: (A) Citrus **Explanation:** First reported in Citrus by Leeuwenhoek (1719). 24. In angisperms, endoperm is formed by A) Division of fused polar nuclei B) Free nuclear division of megaspore C) Division of fused synergids and male gamete D) Division of fused polar nuclei and male gamete Correct Answer: (D) Division of fused polar nuclei and male gamete

**Explanation:** Triple fusion product (2 polar + 1 sperm) forms endosperm.

25. Endosperm/endosperm nucleus of angiosperms is generally

	A) Haploid	B) Diploid	C) Triploid	D) Tetraploid		
Corı	rect Answer: (C)	Triploid				
	<b>Explanation:</b> Results from fusion of two polar nuclei (2n) + sperm (n). 26. Pollen grains are shed at					
20.	_		l stage C) 3-celled s	tage D) 4- celled stage.		
Carr		2-3 celled stage	_ ,	tage D <sub>1</sub> +- celled stage.		
	` '	_		(vegetative + generative) or		
_	lled stage.	angiosperms sine	u policii at 2-celleu	(vegetative + generative) of		
	•	nensor of embry	o is			
41.	A) Absorption 1	pensor of embry	0 18			
	, <del>-</del>		ve endosperm regio	n		
	,	·	<u> </u>	11		
	,	secondary embr	yos			
Com	D) All the above					
	rect Answer: (D)		ما د	mant and masitioning		
_		<del>-</del>	_	ment and positioning.		
20.		charges its male	_	amai d		
	A) Egg		B) Healthy syn	ergia		
0	, ,	g synergid	D) Central cell			
		Degenerating sy		:d to mologoe on onne		
				id to release sperms.		
29.			en tube enters emb			
	A) By penetratin	0 00		e of the synergids		
Com	, .	g antipodal	,	nergid and central cell		
		Through one of		-00		
_	= -		entry and degenerate			
30.	A) Epidermis			l in this part of anther  D) endothecium		
Corr	rect Answer: (D)	• =	C) Middle layer	D) endomecium		
	, ,		osconic thickening	s for anther dehiscence.		
		tion results in pr		s for affilier definseeffee.		
51.	A) Haploid nucl		B) Diploid nuc	lens		
	C) Triploid nucl		D) tetraploid n			
Carr	, -	eus Diploid nucleus	· —	ucieus		
	` ,	_		ygote. (Note: Also produces		
		nucleus via triple		ygote. (Note: 71130 produces		
32.	In a type of apo	mixes known as	adventitive embryo	ny, embryos develp		
	ctly from		J	3, 3		
	A) Nucellus or i	ntegument	B) Zygote			
	•	_	, , ,	sory embryo sacs in the		
ovul	, , ,	•	,	3		
Corı	rect Answer: (A)	Nucellus or inte	gument			
	, ,		matic cells of ovule	tissues.		
_	Double fertilizat					
	A) Fertilization	of egg by two ma	le gametes			
	•		ought by one poller	n tube		
	•	=		o sperms brought by the		
sam	e pollen tube	20	ŭ	_		

D) Fertilization of the egg and the central cell by two sperms brought by two different polentubes.

**Correct Answer:** (C) Fertilization of the egg and the central cell by two sperms brought by the same pollen tube

**Explanation:**One sperm fertilizes egg (zygote), other fuses with polar nuclei (endosperm).

34. For self pollination, a flower should be

A) A sexual B) Mono

B) Monosexual C) Unisexual

D) Bisexual

Correct Answer: (D) Bisexual

**Explanation:** Requires both male and female reproductive organs.

35. Arrangement of nuclei in normal dicot embryo sac is

A) 3+3+2

B) 2+4+2

C) 3+2+3

D) 2+3+3

Correct Answer: (C) 3+2+3

**Explanation:** 3 antipodals + 2 synergids + 3 (egg + 2 polar nuclei).

36. Milky water of green coconut is

A) Liquid chalaza

B) Liquid nucellus

C) Liquid endosperm

D) Liquid female gametophyte

**Correct Answer:** (C) Liquid endosperm

**Explanation:** Nutritive tissue for developing embryo.

37. A diploid female plant is crossed with tetraploid male plant. The ploidy of endosperm will be

A) Tetraploidy B) Penta

B) Pentaploidy C) Triploidy

D) Diploidy

**Correct Answer:** (B) Pentaploidy

**Explanation:** 2n female × 4n male --> 3n embryo + 5n endosperm (2 polar nuclei [4n] + sperm [n]).

38. In oogamy, fertilization occurs between

- A) Small nonmotile female gamete and large motile male gamete
- B) Large nonmotile female gamete and small motle male gamete
- C) A large nonmotile female gamete and small nonmotile male gamete
- D) A large motile female gamete and a small nonmotile male gamete.

**Correct Answer:** (B) Large nonmotile female gamete and small motile male gamete

**Explanation:** Typical of all seed plants and many algae.

39. Fragrant flowers with well developed nectarines are an adaptation for

A) Zoophily

B) Anemophily

C) Entomophily

D) Hydrophily

**Correct Answer:** (C) Entomophily

**Explanation:** Attract insect pollinators.

40. During formation of pollen grains, a microscope mother cell undergoes

A) One meiotic division

B) One mitotic division

C) One meiotic and one mitotic division

D) One meiotic and two mitotic divisions

Correct Answer: (D) One meiotic and two mitotic divisions

**Explanation:** PMC --> meiosis --> microspores --> mitosis --> 2-celled pollen --> mitosis --> 3-celled.

41. Pollen grains are able to tolerate extremes of temperature and desiccation because their exine consists of

	A) Cutin B) Suberin	C) sporopollenin	D) Callose
Corı	ect Answer: (C) sporopollenin	, 1 1	,
	lanation:Most chemically resistant	biological compound	1.
_	Plant part having tow generations,		
	-	ollen grain C) Embry	
ovul	· -	g,	_, -,
	ect Answer: (B) Germinated poller	n grain	
	<b>lanation:</b> Contains male gametoph	_	sporophyte tissue
_	oid wall).	.) co (	5p 01 0p 11, 00 0100 010
` -	Wind pollinated flowers are		
	A) small, scented and colourless	B) Small nonscent	ted and colourless
	C) Big, scented and colourless		
Corr	ect Answer: (B) Small, nonscented	,	and colouress
	<b>lanation:</b> Lack showy adaptations		ollinators
_	Vegetative fertilization, which invo	<del>-</del>	
	A) One male gamete with diploid s		adosperiii, io idoioii oi
	B) Two vegetative cells	C) Two male games	ties
	D) Female gamete with secondary	,	
Cort	<b>eect Answer:</b> (A) One male gamete		ary nucleus
	lanation: Triple fusion (2 polar nuc	—	ary fracteus
_	Number of prothallial cells present	<u> </u>	te of flowering plants is
10.	A) Three B) Two	C) One	D) zero
Cort	ect Answer: (D) zero	C) One	D) 2010
	lanation:Reduced compared to gyr	nnosnerms which ha	ve 2-3
_	If meiosis occurs inside pollen gra	_	.vc 2 0.
10.	A) Zygotic meiosis B) Gametic mei		is D) None of the
abov	, , ,	oolo oj opolie ilieloo	is b) itolic of the
	ect Answer: (B) Gametic meiosis		
	<b>lanation:</b> Meiosis producing gamet	es directly (like in an	nimals)
_	Pollen grains are non green due to	٠,	
.,,	A) Absence of plastids	B) Degeneration of	`nlastids
	C) Conversion of plastids	,	•
Cort	<b>eect Answer:</b> (B) Degeneration of p		01010
	<b>lanation:</b> Chloroplasts convert to 1		vlonlasts
_	Which is wrong	ess annerentiatea ann	y lopiasts.
10.	A) Seed cannot be formed after on	e fertilization	
	B) Seed is formed after one fertilization		
	C) Seeds is formed without double		
	D) Fruit is produced after double f		
Cort	<b>eect Answer:</b> (B) Seed is formed at		
	lanation: Requires both syngamy (		usion (endosperm)
	Filiform apparatus occurs in	chibiyo, and triple re	ision (endosperm).
ΤЭ.	A) Synergids B) Secondary nuc	oleus (C) Antinodola	D) Fog nucleus
Corr	ect Answer: (A) Synergids	icus ej miupouais	D) Dgg Hucicus
	lanation: Guides pollen tube entry		
_	In which of the following plant pol		en allerow and leads to
	ma, bronchitis	icii gramis caust poli	cii ancigy and itaus lo
asui	ma, biolicinus		

A) Solanum surathines
B) Atropa belladona
C) Parthenium hysterophorus
D) Digitalis purpurea

Correct Answer: (C) Parthenium hysterophorus

Explanation: Common allergenic weed (congress grass).

51. From which part of the plant can gardeners take cuttings to produce new plants?

a) Flowers b) L

b) Leaves

c) Roots

d) Fruits

Correct Answer: (c) Roots

**Explanation:** Stem/leaf cuttings more common but root cuttings possible.

52. What type of underground storage structure do onions and tulips grow from?

a) Tubers

b) Rhizomes

c) Bulbs

d) Runners

Correct Answer: (c) Bulbs

**Explanation:** Underground storage organs with fleshy leaves.

53. How do gardeners typically propagate plants using the cutting method?

a) By placing a piece of the fruit in soil

b) By taking a section of the flower and planting it

c) By placing a stem or leaf in soil or water

d) By burying a section of the root underground

Correct Answer: (c) Placing a stem or leaf in soil/water

**Explanation:** Most common vegetative propagation method.

54. What is parthenogenesis?

a) Regeneration of lost body parts

b) Reproduction through budding

c) Reproduction without fertilization d) Reproduction through fragmentation

**Correct Answer:** (c) Reproduction without fertilization

**Explanation:** Development from unfertilized egg.

55. Which animals can reproduce without fertilization?

a) Worms

b) Coral

c) Planarians

d) Certain species of insects, reptiles, and fish

Correct Answer: (d) Certain insects, reptiles, and fish

Explanation: e.g., aphids, whiptail lizards, some sharks.

56. What happens when a small bud forms on the parent organism and eventually detaches to become a new individual?

a) Regeneration b) Fragmentation c) Parthenogenesis d)Budding

Correct Answer: (d) Budding

**Explanation:** Asexual reproduction seen in yeast, hydra etc.

## LEARNERS TASK

1. This is a character of flower.

A) Presence of condensed axis

B) Showing limited growth

C) Taking part in sexual reproduction D) All of the above

Correct Answer: (D) All of the above

**Explanation:** Flowers have condensed axis (receptacle), limited growth, and function in sexual reproduction.

2. The idea that flower is a modified shoot was expressed by

A) Linnaeus B) Gaspard Bauhin C) de Candolle & Goethe D) All of them

Correct Answer: (C) de Candolle & Goethe

Exp	planation: Proposed the "foliar theory	y" of floral parts		
3.	Torus is			
	A) Axis of flower B) Stalk of flower	C) Axis of the pla	ant	D) All
Co	rrect Answer: (A) Axis of flower			
$\mathbf{E}\mathbf{x}_1$	<b>planation:</b> The thalamus/receptacle b	pearing floral parts	•	
4.	The total number of sets of floral lea	aves present in a n	ormal flow	er is
	A) Four B) One	C) Three	D) Two	
	rrect Answer: (A) Four			
_	planation:Calyx, corolla, androecium			
5.	The first and second whorls of the f		consist of	
	A) Calyx, Androecium	B) Corolla, Calyx		
_	C) Corolla, Androecium	D) Calyx, Corolla		
	rrect Answer: (D) Calyx, Corolla	C 11 1 1 11		
	planation: Outermost whorl is calyx,		l <b>.</b>	
6.	Both calyx and corolla together kno			11 - C / 1
0	A) Perianth B) Chlamydeon	C) Non-essential (	organs D) A	ii oi tnem
	rrect Answer: (D) All of them	ahlamridaan (ald ta	mm) and na	on occontial
_	<b>planation:</b> Perianth (collective term), o	cinamydeon (old te	im, and no	on-essemai
7.	ans. Essential organs of the flower are p	resent in one of the	e following	whorle
7.	A) Calyx, Androecium	B) Corolla, Calyx	lonowing	W110115.
	C) Gynoecium, Androecium	,	orolla	
Cor	rrect Answer: (C) Gynoecium, Andro		orona	
	planation: Reproductive organs (stan			
8.	· · · · · · · · · · · · · · · · · ·	area early easy.		
	A) Complete	B) Incom	nplete	
	C) Usually incomplete rarely comple	•	lete or inco	mplete
Co	rrect Answer: (D) Complete or incom	, -		•
$\mathbf{E}\mathbf{x}_{1}$	planation:Bisexual means having bo	th sexes, unrelated	to complet	teness (all
fou	r whorls).			
9.	Microsporophyll is commonly know	n as		
	A) Stamen B) Carpel	C) Petal	D) Sepal	
	rrect Answer: (A) Stamen			
	planation:Leaf-like structure bearing	microsporangia.		
10.	A dithecous anther has		_,	
_	A) Two lobes B) Two microspora	ingia C) Two filam	ents D)	Two anthers
	rrect Answer: (A) Two lobes	• /, , 1	<b>C</b> \	
_	planation:Each lobe contains two mi	crosporangia (total	tour).	
11.	Monothecous anthers are seen in	(i) II:1: i	D) 4	
0	A) Cassia B) Datura	C) Hibiscus	D) Argem	one
	rrect Answer: (C) Hibiscus	tunically bays mor	ath accus a	nth oro
	<b>planation:</b> <i>Malvaceae family member</i> s In an angiospermic plant flowers ar		onecous a	illers.
14.	A) Male gametophyte B) Thalamus	-	D) Femal	e
gar	netophyte	oj oporopriyte	ו נים reman	C
_	rrect Answer: (C) Sporophyte			
~	(c) operopriyee			

<b>Explanation:</b> Flowers are sporophytic stru	ictures.	
13. In angiosperms meiotic division takes		
A) Zygote B) Spore mother cells	<del>-</del>	ther cells D) All
Correct Answer: (B) Spore mother cells	<i>5</i>	01101 00110 2) 1111
<b>Explanation:</b> Both microspore and megasp	oore mother cells i	undergo meiosis.
14. One of the following is developed from		8
A) Male gamete B) Female gamete		D) Megaspore mother
cell	, 38	, 0 1
Correct Answer: (D) Megaspore mother ce	ell	
Explanation: Arises from nucellar tissue w		
15. The haploid structures in the life cycle	e of angiosperms	is
A) Microspores B) Megaspores C	c) Male gametophy	rte D) All
Correct Answer: (D) All		
<b>Explanation:</b> Microspores, megaspores, ar	nd gametophytes	are all haploid.
16. In angiosperms the adult sporophyte	is directly formed	from
A) Microspore B) Megaspore C	C) Zygote	D) Embryo
Correct Answer: (C) Zygote		
<b>Explanation:</b> Zygote develops into embryo	> sporophyte.	
17. In angiosperms the seed contains		
A) Zygote B) Seed ling C	C) Embryo	D) Female
gametophyte		
Correct Answer: (C) Embryo	1 ,	
<b>Explanation:</b> Mature embryo is the young	g sporophyte.	
18. Pollen grains are also known as	)	
· -	B) Megaspores	11
	) Megaspore moth	ier cen
Correct Answer: (A) Microspores  Fundamental Mole spares produced by me	eiogia	
<b>Explanation:</b> Male spores produced by me 19. The number of pollen sacs preset in a		· io
	C) Three	D) Four
Correct Answer: (D) Four	) IIIICC	D) rour
<b>Explanation:</b> Two sacs per theca $(2 \times 2 = 4)$ .		
20. Male gametes are formed by		
9	C) Tapetum	D) Connective
Correct Answer: (A) Pollen grains	o, rapetani	D) Comiconive
<b>Explanation:</b> Generative cell in pollen prod	luces sperms.	
21. This is not an integral part of anther v	-	
A) Sporogenous tissue B) Tapetum C		D) Epidermis
Correct Answer: (A) Sporogenous tissue	, ,	, 1
<b>Explanation:</b> It develops into pollen, not p	oart of wall layers.	
22. Stomium is an integral part of	3	
<del>_</del>	C) Endothecium	D) Epidermis
Correct Answer: (D) Epidermis	,	, -
<b>Explanation:</b> Thin-walled region for anther	r dehiscence.	
23. Microspore mother cells show meiosis		neration of
A) Tapetum B) Endothecium (	C) Stomium	D) Middle layers
Correct Answer: (D) Middle layers		

B1		
<b>Explanation:</b> Middle layers degenerate		
24. Fibrous thickenings are present in		
A) Endothecium B) Tapetum	C) Epidermis	D) Middle layers
Correct Answer: (A) Endothecium		
<b>Explanation:</b> Hygroscopic thickenings		
25. This is multilayered structure of ar	nther wall	
A) Middle layers B) Tapetum	C) Endothecium	D) Epidermis
Correct Answer: (A) Middle layers		
<b>Explanation:</b> Usually 1-3 cell layers thic	ck.	
26. This is hygroscopic structure of an	ther.	
A) Tapetum B) Endothecium	C) Middle layers	D) Tapetum
Correct Answer: (B) Endothecium		
<b>Explanation:</b> Fibrous thickenings abso	rb moisture for deh	iscence.
27. This structure of anther wall helps	in the breakage of	anther.
A) Endothecium B) Tapetum	C) Middle layers	D) Epidermis
Correct Answer: (A) Endothecium	,	, <u>-</u>
Explanation: Its hygroscopic nature cau	ises uneven drying	and rupture.
28. These cells show contraction durin		
A) Tapetum B) Endothecium	C) Middle layers	D) Epidermis
Correct Answer: (C) Middle layers	,	, 1
Explanation: Their degeneration creates	s tension.	
29. The innermost layer of anther wall		
A) Tapetum B) Endothecium		D) Epidermis
Correct Answer: (A) Tapetum	, ,	, 1
<b>Explanation:</b> Nourishes developing polle	en.	
30. It is the nutritive tissue of anther w		
A) Endothecium B) Tapetum	C) Epidermis	D) Middle layers
Correct Answer: (B) Tapetum	, 1	, 3
<b>Explanation:</b> Provides nutrients to micr	ospores.	
31. Radially elongated cells are present		
A) Epidermis B) Tapetum		D) Endothecium
Correct Answer: (B) Tapetum	, ,	,
<b>Explanation:</b> Characteristic secretory ta	petum cells.	
32. Meiosis takes place in one of the fo	•	
A) Microspores	B) All sporogenou	s cells
C) Microspore mother cells	D) Tapetal cells	.5 00115
Correct Answer: (C) Microspore mother	, <del>-</del>	
<b>Explanation:</b> Produce haploid microspo		
33. Nucellar cells surrounding the emb		ng and protrude into the
embryosac and develop in the emb		ig and protrage into the
A) Coconut, Mango	B) Citrus, Mango	
C) Cinchona.Mangifera	D) Annona, Citrus	Mango
Correct Answer: (D) Annona, Citrus, Ma	,	,waiigo
<b>Explanation:</b> Exhibit nucellar polyember	_	
34. The usual shape of pollen grain is	iyony.	
A) Spherical or thread like	B) Spherical or ov	·a1
· =	D) Triangular or o	
C) Spherical or rectangular	ות ומווצוווו וער וויוו וער וויוו	vai

Correct Answer: (B) Spherical or oval
<b>Explanation:</b> Most common shapes, though some are elongated.
35. Pollen grain wall is
A) Single layered B) Double layered C) Triple layered D) Four layered
Correct Answer: (B) Double layered
Explanation: Exine (outer) and intine (inner).
36. Exine is chemically made of
A) Protein B) Sporopollenin C) Carbohydrate D) Glycolipid
Correct Answer: (B) Sporopollenin
<b>Explanation:</b> Highly resistant organic polymer protecting pollen.
37. Intine is chemically made of
A) Pectin B) Cellulose C) Pectin and Cellulose D) Lignin
Correct Answer: (C) Pectin and Cellulose
<b>Explanation:</b> Inner wall composed mainly of these carbohydrates.
38 Germ pores are seen in
A) Exine B) Intine
C) Sometimes in exine and sometimes in intine D) None of them
Correct Answer: (A) Exine
<b>Explanation:</b> Thin areas in exine for pollen tube emergence.
39. The first cell of male gametophyte of angiosperms is
A) Megaspore B) Pollen grain C) Male gametophyte D) Female
gametophyte
Correct Answer: (B) Pollen grain
<b>Explanation:</b> Represents the immature male gametophyte.
40. The first division in the microspore is
A) Equal, anticlinal B) Unequal, Anticlinal
A) Equal, anticlinal B) Unequal, Anticlinal C) Equal, Periclinal D) Unequal, Periclinal
Correct Answer: (D) Unequal, Periclinal
<b>Explanation:</b> Produces large vegetative cell and small generative cell.
41. Pollen tube is formed by
A) Exine B) Intine C) Both Exine & Intine D) Plasma membrane
Correct Answer: (B) Intine
<b>Explanation:</b> Grows out through germ pore using intine material.
42. Fully developed male gametophyte of angiosperms has
A) 2-cells B) 3-cells C) 5-cells D) Several cells
Correct Answer: (B) 3-cells
<b>Explanation:</b> 1 vegetative cell + 2 sperm cells (in 70% species).
43. Pollen enters into the embryosac through
A) Egg cell B) Antipodals C) Synergid D) Central cell
Correct Answer: (C) Synergid
<b>Explanation:</b> One synergid degenerates to guide tube entry.
44 The point of attachment of funicle with the ovule body is called as
A) Hilum B) Strophiole C) Raphe D) Integument
Correct Answer: (A) Hilum
Explanation: Scar-like attachment region.
45 The ridge present between the funicle and the body of the ovule is called as

A) Raphe B) Hilu	m C) Strophiole	D) Nucellus		
Correct Answer: (A) Raphe	in c) stropmore	b) waterias		
<b>Explanation:</b> Formed when o	vule is inverted (anatropous	s).		
46. The region of the ovule v	, -	•		
are united is called as		5		
A) Micropyle B) Cha	laza C) Nucellus	D) Raphe		
Correct Answer: (D) Raphe	,	, 1		
Explanation: Fusion line in a	anatropous ovules			
47. Meiosis occurs during tl	ne following phenomenon of	plants.		
A) Embryogenesis	B) Megasporang	giogenesis		
C) Megasporogenesis	D) Nucellogenes	sis		
Correct Answer: (C) Megas <sub>1</sub>	porogenesis			
<b>Explanation:</b> MMC> meios				
48. Megaspores of a tetrad a	_			
,	ussate C) Isobilateral	D) Linear		
Correct Answer: (D) Linear				
Explanation: Most common a				
49. One of the following ever	nts does not occur during di	visions in functional		
megaspore.	1 0 7 1 1	D) Q : 1:		
A) Karyokinesis B) Meta	- , -	D) Cytokinesis		
Correct Answer: (D) Cytokin				
<b>Explanation:</b> Free nuclear di		41-4		
50. The total number of gen formation		_		
A) Three B) Four	<u> </u>	om megaspore is D) Two		
Correct Answer: (A) Three	C) Five	D) Iwo		
<b>Explanation:</b> 1 nucleus> 2	> 4> 8 nuclei			
51. Embryosac is	o Haciel.			
A) Two nucleated stage	of megaspore			
B) Four nucleated stage				
C) Single nucleated stag	<u> </u>			
D) Eight nucleated stage				
Correct Answer: (D) Eight r		e		
Explanation: Mature sac has	8 nuclei (7 cells).			
52. Secondary nucleus of er	nbryosac is fusion product o	of		
A) Synergids B) Anti	podals C) Polar nuclei	D) Megaspores		
Correct Answer: (C) Polar n	uclei			
<b>Explanation:</b> Typically two n	uclei (may vary).			
53. The female gametophyte	e of angiosperms is			
A) 7-celled, 8-nucleated	B) 8-celled, 8-n	ucleated		
C) 7-celled, 7-nucleated	•	ucleated		
Correct Answer: (A) 7-celled				
<b>Explanation:</b> 3 antipodals + 2 synergids + 1 egg + 1 central cell (2 nuclei).				
54. Presence of filiform appa		D) D "		
A) Antipodals B) Synd	ergids C) Central cell	D) Egg cell		
L'ARRACT ASSITIONS (D) CTTO OFFI	1			
Correct Answer: (B) Synergi Explanation: Finger-like projections				

		f embryosac of angi		in absorption and
cond		naterials from nucel		D) Combust 2011
Com	A) Antipodals	, , ,	C) Egg cell	D) Central cell
	rect Answer: (B)	er nutrients from n	110011110	
_		filiform apparatus o		
50.		pollen tube into the		
		f food materials from		
	· -	of food materials int		D) All the above
Cor	•	Guiding pollen tub	•	2) 1111 0110 00010
	` '	es chemotropic subs		
_		1/s of embryosac ar		
		,	C) Antipodals	D) Egg cell
Cor	rect Answer: (C	•	, -	, 33
Exp	lanation: Three	small cells at chalaz	zal end.	
58.	These cells of er	nbryosac perish eve	en before fertilization	n.
	A) Synergids	B) Egg cell	C) Central cell	D) Antipodals
Cor	rect Answer: $(D)$	Antipodals		
_	<b>lanation:</b> Often d	_		
59.	_	of embryosac are		
_		B) Egg apparatus	C) Antipodals	D) Central cells
	rect Answer: (C	, <u> </u>		
_	lanation:Non-re	=	•	
60.	_	est cell of embryosa		T) A .' 1 1
0	,	B) Synergid	C) Central cell	D) Antipodal
	rect Answer: (A		out langue than athe	) #G
		er than central cell b yotic cell of embryos		518.
01.		B) Egg cell		D) Antipodal
Cor	rect Answer: (C)	, 55	c) central cen	D) Miupodai
		ns two polar nuclei	before fertilization	
_	The diploid cell	<del>=</del>	belore for timeactors.	
o <b></b>	-	B) Egg cell	C) Synergid	D) Antipodal
Cor	rect Answer: (A)		-, -,	_ /
	` '	ns two polar nuclei	before fertilization (	2n).
_		veen genetically sim	•	•
follo	wing cells of emb	oryosac.		
		B) Synergid	C) Central cell	D) Antipodal
Cor	rect Answer: (C)	Central cell		
Exp	<b>lanation:</b> Fusior	n of two polar nuclei	i (homokaryogamy).	
64.		ryosac is not having		
		B) Egg cell	C) Synergid	D) Antipodal
	rect Answer: (A)			
_	_	racuolated cell with	incomplete walls.	
65.	Direct pollination		C) American	D)
<b>~</b> .	A) Dicots	B) Monocots	C) Angiosperms	D) Gymnosperms
Cor	rect Answer: $(D)$	Gymnosperms		

Explanation:Pollen falls directly on ovule (no stigma).  66. Self pollinating flowers must be A) Cleistogamous B) Chasmogamous C) Bisexual D) Xenogamous  Correct Answer: (C) Bisexual  Explanation:Requires both sexes in same flower (though not all bisexual flowers self-pollinate).  67. If the pollen grains of one flower of a plant fall on the stigma of another flower of the same plant it is described as A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy  Explanation:Genetically self-pollination but technically cross-pollination.  68. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are a series sexual B) All bisexual flowers are a bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage  Explanation:One synergid degenerates to allow entry.  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion C) Yegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Syngamy in Alli	Funlanation. Dollar falls directly on over	le (no stigma)		
A) Cleistogamous B) Chasmogamous C) Bisexual  Explanation:Requires both sexes in same flower (though not all bisexual flowers self-pollinate).  67 If the pollen grains of one flower of a plant fall on the stigma of another flower of the same plant it is described as  A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy Correct Answer: (B) Geitonogamy Explanation:Genetically self-pollination but technically cross-pollination.  68. Only Xenogamy takes place in  A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioccious plant (separate male/female plants).  69. Find the correct statement  A) All autogamous flowers are bisexual  B) All bisexual flowers are autogamous  C) All bisexual flowers are allogamous  C) All bisexual flowers are allogamous  C) All bisexual flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are  A) Viola,Oxalis,Commelina  B) Ficus,Viola,Oxalis  C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water  A) Vallisneri,Borassus, Cocos  B) Zostera, Hydrilla,Vallisnera  C) Hibiscus D) Ficus  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  C) Hibiscus D) Synergid  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying  A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at  A) 2-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered  A) Double fertilization D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization	<del>-</del>	ie (no sugma).		
Correct Answer: (C) Bisexual  Explanation:Requires both sexes in same flower (though not all bisexual flowers self-pollinate).  67 If the pollen grains of one flower of a plant fall on the stigma of another flower of the same plant it is described as  A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy  Explanation:Genetically self-pollination but technically cross-pollination.  68. Only Xenogamy takes place in  A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioccious plant (separate male/female plants).  69. Find the correct statement  A) All autogamous flowers are bisexual  B) All bisexual flowers are allogamous  C) All bisexual flowers are allogamous  D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are  A) Vola, Oxalis, Commelina  C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis  Correct Answer: (A) Viola, Oxalis, Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water  A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera  C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying  A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at  A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: One synergid degenerates to allow entry.  74. Strasburger discovered  A) Double fertiliszation B) Syngamy  C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion	1	ıs C) Risevual	D) Yenogamous	
Explanation: Requires both sexes in same flower (though not all bisexual flowers self-pollinate).  7 If the pollen grains of one flower of a plant fall on the stigma of another flower of the same plant it is described as A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy  Explanation: Genetically self-pollination but technically cross-pollination.  8 Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation: Dioccious plant (separate male/female plants).  9 Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are autogamous C) All bisexual flowers are bisexual  Explanation: Self-pollination requires both sexes in one flower.  70 The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis  Correct Answer: (A) Viola, Oxalis, Commelina  Explanation: Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisneria C) Hydrilla, Acalypha, Vallisneria D) Zostera, Hydrilla, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisneria  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (A) 2-celled stage  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertilization B) Syngamy C) Triple fusion  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.	·	is Cybiscadai	D) Achogamous	
self-pollinate). 67 If the pollen grains of one flower of a plant fall on the stigma of another flower of the same plant it is described as A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Explanation:Genetically self-pollination but technically cross-pollination. 68. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants). 69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are altogamous D) All Allogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower. 70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers. 71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos C) Hydrilla,Acalypha,Vallisneria D) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera Correct Answer: (B) Zostera, Hydrilla,Vallisnera Correct Answer: (B) Zostera, Hydrilla,Vallisnera Correct Answer: (B) Synergid  Explanation:True hydrophiles (Zostera is marine). 72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry. 73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms). 74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 484 discovery of sperm fusion with polar nuclei.	` ,	ne flower (though n	ot all hisexual flowers	
67 If the pollen grains of one flower of a plant fall on the stigma of another flower of the same plant it is described as  A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy  Explanation: Genetically self-pollination but technically cross-pollination.  68. Only Xenogamy takes place in  A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation: Dioecious plant (separate male/female plants).  69. Find the correct statement  A) All autogamous flowers are bisexual  B) All bisexual flowers are autogamous  C) All bisexual flowers are allogamous  C) All bisexual flowers are bisexual  Explanation: Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina  B) Ficus, Viola, Oxalis  C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis  Correct Answer: (A) Viola, Oxalis, Commelina  Explanation: Sehibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water  A) Vallisneri, Borassus, Cocos  B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying  A) Egg cell  B) Central cell  C) Antipodal  D) Synergid  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying  A) Egg cell  B) Central cell  C) Antipodal  D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at  A) 2-celled stage  Explanation: One synergid degenerates to allow entry.  74. Strasburger discovered  A) Double fertiliszation  B) Syngamy  C) Triple fusion  D) Vegetative fertilization  Correct Answer: (A) 2-celled stage  Explanation: 1884 discovery of sperm fusion with polar nuclei.		ne nower (though if	ot all bisexaal newers	
of the same plant it is described as A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy  Explanation:Genetically self-pollination but technically cross-pollination.  88. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are allogamous C) All bisexual flowers are allogamous C) All bisexual flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina B) Ficus, Viola, Oxalis C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis Correct Answer: (A) Viola, Oxalis, Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria Correct Answer: (B) Zostera, Hydrilla, Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage Correct Answer: (A) 2-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.	<u> </u>	a plant fall on the s	stigma of another flower	
A) Xenogamy B) Geitonogamy C) Allogamy D) Autogamy  Correct Answer: (B) Geitonogamy  Explanation:Genetically self-pollination but technically cross-pollination.  68. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.		a plant lan on the	ongma of affective nower	
Correct Answer: (B) Geitonogamy Explanation:Genetically self-pollination but technically cross-pollination.  68. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria Explanation:Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina B) Ficus, Viola, Oxalis C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis  Correct Answer: (A) Viola, Oxalis, Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.	<u>=</u>	C) Allogamy	D) Autogamy	
Explanation:Genetically self-pollination but technically cross-pollination.  8. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants).  8. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.		-, -8 3	, 8 3	
68. Only Xenogamy takes place in A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos C) Hydrilla,Acalypha,Vallisneria D) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisneria  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Correct Answer: (A) Zoelled stage  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.		but technically cro	oss-pollination.	
A) Acalypha B) Vallisnaria C) Hibiscus D) Ficus  Correct Answer: (B) Vallisnaria  Explanation:Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.		J	•	
Correct Answer: (B) Vallisnaria  Explanation: Dioecious plant (separate male/female plants).  69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are autogamous D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation: Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina B) Ficus, Viola, Oxalis C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis Correct Answer: (A) Viola, Oxalis, Commelina  Explanation: Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.		C) Hibiscus	D) Ficus	
69. Find the correct statement A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are autogamous D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower. 70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers. 71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine). 72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation:One synergid degenerates to allow entry. 73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms). 74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei. 75. Nawaschin discovered		,	•	
A) All autogamous flowers are bisexual B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos C) Hydrilla,Acalypha,Vallisneria D) Zostera, Hydrilla,Vallisnera  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.	Explanation: Dioecious plant (separate 1	male/female plants	).	
B) All bisexual flowers are autogamous C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.	69. Find the correct statement			
C) All bisexual flowers are allogamous D) All Allogamous flowers are bisexual  Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis  Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.	A) All autogamous flowers are bisex	rual		
Correct Answer: (A) All autogamous flowers are bisexual  Explanation: Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina B) Ficus, Viola, Oxalis C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis  Correct Answer: (A) Viola, Oxalis, Commelina  Explanation: Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion B) Syngamy C) Triple fusion B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.	,			
Correct Answer: (A) All autogamous flowers are bisexual  Explanation:Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.	,			
Explanation: Self-pollination requires both sexes in one flower.  70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola, Oxalis, Commelina B) Ficus, Viola, Oxalis C) Commelina, Carica, Cassia D) Viola, Vallisneria, Oxalis  Correct Answer: (A) Viola, Oxalis, Commelina  Explanation: Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	,			
70. The plants with both Cleistogamous and Chasmogamous flowers are A) Viola,Oxalis,Commelina B) Ficus,Viola,Oxalis C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis Correct Answer: (A) Viola,Oxalis,Commelina Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria Correct Answer: (B) Zostera, Hydrilla,Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	` ,			
A) Viola,Oxalis,Commelina C) Commelina,Carica,Cassia D) Viola,Vallisneria, Oxalis Correct Answer: (A) Viola,Oxalis,Commelina Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria Correct Answer: (B) Zostera, Hydrilla,Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered				
Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	<del>-</del>	_		
Correct Answer: (A) Viola,Oxalis,Commelina  Explanation:Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered				
Explanation: Exhibit both closed (selfing) and open (outcrossing) flowers.  71. The plants which are mostly pollinated by water A) Vallisneri, Borassus, Cocos B) Zostera, Hydrilla, Vallisnera C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	,	,	a, Oxalis	
71. The plants which are mostly pollinated by water A) Vallisneri,Borassus, Cocos B) Zostera, Hydrilla,Vallisnera C) Hydrilla,Acalypha,Vallisneria D) Zostera,Nicotiana,Vallisneria  Correct Answer: (B) Zostera, Hydrilla,Vallisnera  Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered				
A) Vallisneri,Borassus, Cocos C) Hydrilla,Acalypha,Vallisneria C) Hydrilla,Acalypha,Vallisneria Correct Answer: (B) Zostera, Hydrilla,Vallisnera Explanation:True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	= '		ssing, nowers.	
C) Hydrilla, Acalypha, Vallisneria D) Zostera, Nicotiana, Vallisneria  Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered		_	lla Vallisnera	
Correct Answer: (B) Zostera, Hydrilla, Vallisnera  Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	•	,		
Explanation: True hydrophiles (Zostera is marine).  72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered				
72. The pollen tube enters into the embryosac by destroying A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	• • • • • • • • • • • • • • • • • • • •			
A) Egg cell B) Central cell C) Antipodal D) Synergid  Correct Answer: (D) Synergid  Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	_ ,	•	ng	
Correct Answer: (D) Synergid  Explanation:One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	<u> •</u>		C	
Explanation: One synergid degenerates to allow entry.  73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	, 66	, 1	, 3 3	
73. Pollen grains of angiosperms are released from the microsporangium at A) 2-celled stage B) 1-celled stage C) 3-celled stage D) 4-celled stage  Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	( ) & 3	to allow entry.		
Correct Answer: (A) 2-celled stage  Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered  A) Double fertiliszation  B) Syngamy  C) Triple fusion  D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	-		crosporangium at	
Explanation: Vegetative + generative cells (most angiosperms).  74. Strasburger discovered  A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	A) 2-celled stage B) 1-celled stage	C) 3-celled stage	D) 4-celled stage	
74. Strasburger discovered A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei. 75. Nawaschin discovered	Correct Answer: (A) 2-celled stage	,		
A) Double fertiliszation B) Syngamy C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei. 75. Nawaschin discovered	Explanation: Vegetative + generative ce	lls (most angiosper	ms).	
C) Triple fusion D) Vegetative fertilization  Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	74. Strasburger discovered			
Correct Answer: (D) Vegetative fertilization  Explanation: 1884 discovery of sperm fusion with polar nuclei.  75. Nawaschin discovered	A) Double fertiliszation	B) Syngamy		
<b>Explanation:</b> 1884 discovery of sperm fusion with polar nuclei. 75. Nawaschin discovered	C) Triple fusion	D) Vegetative ferti	lization	
75. Nawaschin discovered	Correct Answer: (D) Vegetative fertilization	tion		
		asion with polar nu	clei.	
A) Syngamy in <i>Allium</i> B) Zygotic fertilization in <i>Fritillaria</i>				
	A) Syngamy in <i>Allium</i>	B) Zygotic fertiliza	tion in <i>Fritillaria</i>	

	C) Triple fusion in <i>Lilium</i>	D) Vegetative fertili	ization in <i>Polugonum</i>		
Corı	rect Answer: (C) Triple fusion in Lilius	, -			
	lanation: 1898 discovery of double fe				
_	This is triploid.				
	A) Zygote	B) Secondary nucl	118		
	C) Primary endosperm nucleus	,			
Corr	rect Answer: (C) Primary endosperm	,			
	<b>lanation:</b> 2 polar nuclei (2n) + 1 sper				
	Presence of double fertilization is a				
	A) Gymnosperms B) Angiosper		res D) A11		
Phai	nerogams	of Bijoping	2) III		
	ect Answer: (B) Angiosperms				
	<b>lanation:</b> Unique to flowering plants				
	Ex-albuminous seeds are seen in	•			
70.		C) Capsella	D) Datura		
Corr	rect Answer: (C) Capsella	C) Capsella	B) Datara		
	lanation: No residual endosperm (e.g	nage hagne)			
_	The tissue that acts as nutritive tiss		ent of embracia		
19.		-	D) Perisperm		
Com	, , -	C) Endosperm	D) Felispelli		
	rect Answer: (C) Endosperm	most soods			
_	lanation: Primary nutritive source in	i illost secus.			
ου.	Albuminous seeds are seen in	C) Darte man	D) 411		
0	A) Cocos B) Ricinus	C) Datura	D) All		
	rect Answer: (D) All	: (	11 4 . 5		
_	lanation: Cocos (coconut water), Ric	inus (castor), Datui	ra ali retain		
	osperm.	-1 - · · · 1 C · · · · ·			
81.	In <i>Pyrus malus</i> the false fruit is deve	_	D) G 1		
~	•	C) Peduncle	D) Calyx		
	rect Answer: (A) Thalamus	. 1 /	c :		
	lanation: Apple forms from floral rec		fruit).		
82.	The succulent part in Anacardium o		D) mt -1		
_	A) Peduncle B) Pedicel	C) Calyx	D) Thalamus		
	rect Answer:(A) Peduncle				
_	lanation: Cashew "apple" is swollen	stalk.			
83.	Drupe is a		_		
	A) Fleshy fruit	B) Dry dehiscent fr			
	C) Dry indehiscent fruit	D) Schizocarpic fru	ıit		
	rect Answer:(A) Fleshy fruit				
_	<b>lanation:</b> Stony endocarp (e.g., man <sub>t</sub>				
84.	The thalamus contributes in the for	mation fruits in			
	A) Apple, Strawberry, Cashew nut	B) Apple.Annona.N	laravelia e		
	C) Strawberry.Solanum,Artocarpus	D) Cashewnut, Arta	abotrys,Artocarpus		
Corı	Correct Answer: (A) Apple, Strawberry, Cashew nut				
Exp	lanation: All are accessory fruits wit	h thalamus tissue.			
85.	A plant with parthenocarpic fruit is				
	A) Pyrus malus	B) Anacardium occ	cidentalis		

C) Musa paradisiaca	D) Annona squam	osa
Correct Answer:(C) Musa paradisiaca	_	
Explanation: Bananas develop without	fertilization.	
86. A plant where the seeds show around	nd 10,000 years of	dormancy
A) Lentinous edodes	B) Lupinus arcticu	
C) Lycopersicon esculentum	D) Leucas aspera	
Correct Answer:(B) Lupinus arcticus	, 1	
<b>Explanation:</b> Arctic lupine seeds revived	d from Pleistocene a	age.
87. The process formation of seeds with		
A) Apospory B) Parthenocarpy		sD) Apomixis
Correct Answer: (D) Apomixis	, 8	, 1
<b>Explanation:</b> Asexual seed production (	e.g., citrus, dandeli	ions).
88. The protective structures present as		•
A) Strophiole B) Chalaza	C) Funiculii	
Correct Answer:(D) Integuments	,	, 3
<b>Explanation:</b> Develop into seed coats.		
89. How do strawberries and spider pla	nts reproduce?	
a) Through leaf cuttings	4. — -	ers
c) Via stems called runners	, ,	
Correct Answer: (c) Via stems called ru:	,	
<b>Explanation:</b> Stolons (runners) produce		
90. Which of the following plants can sp		nd roots from
underground	stems?	
a) Onions b) Ginger	c) Potatoes	d) Dahlias
Correct Answer: (b) Ginger		
<b>Explanation:</b> Grows from rhizomes (also	o dahlias, but optio	n d is plural).
91. What method do gardeners use to p	oropagate African vi	olets and succulents?
a) Root cuttings b) Stem cuttings	c) Leaf cuttings	d) Tubers
Correct Answer:(c) Leaf cuttings		
<b>Explanation:</b> Both readily propagate from	om leaves.	
92. Which animal reproduces through 1	budding?	
a) Starfish b) Hydra	c) Planarians	d) Worms
Correct Answer:(b) Hydra		
<b>Explanation:</b> Forms buds that detach (	(also corals, yeasts)	
93. What is the process called when an	imals regenerate lo	st body parts?
a) Budding b) Regeneration	c) Fragmentation	d) Parthenogenesis
<b>Correct Answer:</b> (b) Regeneration		
<b>Explanation:</b> Seen in starfish, planarian		
94. Which of the following animals can	reproduce through	fragmentation?
a) Hydra b) Starfish	c) Worms	d) Planarians
Correct Answer: (d) Planarians		
<b>Explanation:</b> Flatworms split and regen	ierate (also some ar	nnelids).