SEAL

CCE(P) - 2015
BOTANY

KTM-05-XV

Full Marks: 200

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Subject Code :

0 5

Test Booklet No. :

00659

TEST BOOKLET

BOTANY

Time Allowed: 2 (Two) Hours

INSTRUCTIONS

- 1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Subject Code shall be written legibly and correctly in the space provided on the Answer Sheet with black ball pen.
- 2. Space provided for Series in the Answer Sheet is not applicable for Optional Subject. So the space shall be left blank.
- 3. All questions carry equal marks. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet.
- 4. No candidate shall be admitted to the Examination Hall/Room 20 minutes after commencement of distribution of the paper. The Supervisor of the Examination Hall/Room will be the time-keeper and his/her decision in this regard is final.
- 5. No candidate shall leave the Examination Hall/Room without prior permission of the Supervisor/
 Invigilator. No candidate shall be permitted to hand over his/her Answer Sheet and leave the
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- 8. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.
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- 10. Violation of any of the above Rules will render the candidate liable to expulsion from the Examination Hall/Room and disqualification from the Examination, and according to the nature and gravity of his/her offence, he/she may be debarred from future Examinations and Interviews conducted by the Commission for appointment to Government Service.
- 11. Smoking inside the Examination Hall/Room is strictly prohibited.
- 12. This Test Booklet contains one sheet (two pages) for Rough Work at the end.

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[No. of Questions: 100]

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(A)	Napiform root	(A) Malvao	ceae
(B)	Conical root	(B) Poacea	ie .
(C)	Fusiform root	(C) Fabace	eae
(D)	Moniliform root	(D) Brassi	caceae
2. Clado	odes are produced by	6. Caudex type	e of stem is present in
(A)	Opuntia	(A) cocon	me Allowed : 2 (Ttu
(B)		(B) cocoa	
(C)	Cocoloba	(C) neem	
	Euphorbia		Space moutou to on one
3. The usu	adventitious root system	7. Mentha pro	duces
	6 6 1	(A) runne	r noisioch manyald bas
(B)	subsurface feeder	(B) sucke	of Late astronomics
(C)	deep feeder	(C) stolon	
(D)	redde the fixembrane Hall Hoos	(D) offset	. No candidate shall he
4. The	rootless plant is	8. Hydrophily	occurs in
(A)	Utricularia 200 100 100 100 100 100 100 100 100 100	(A) Vallis	neria wall box will have
(B)	Viscum	(B) Poins	ettia
(C)	Drosera	(C) Bomb	ax d\as to your distinct
(D)		(D) Salvio	Sandong inside the Eg

9. Thorns are

- (A) modified stem structures
- (B) modified leaf parts
- (C) superficial outgrowths of stem
- (D) hard and stiff plant parts

10. In dichogamy

- (A) anthers are sterile whereas ovules are fertile
- (B) ovules are sterile whereas anthers are fertile
- (C) pollen and stigma of the flower mature at different times
- (D) pollen and stigma of the flower mature at the same time
- 11. Endosperm of angiosperms results after fertilization from
 - (A) synergids
 - (B) secondary nucleus
 - (C) antipodal cells
 - (D) egg
- 12. The mode of arrangement of leaves on the stem and its branches is called
 - (A) phyllode
 - (B) phyllotaxy
 - (C) cladode
 - (D) phylloclade

- 13. Verticillaster inflorescence is found in
 - (A) Amaranthus
 - (B) Achyranthus
 - (C) Acalypha
 - (D) sacred basil

14. The rose is

- (A) hypogynous
- (B) perigynous
- (C) epigynous
- (D) half-perigynous
- 15. Seeds in a mature ovary are developed from
 - (A) embryo
 - (B) embryo sac
 - (C) ovule
 - (D) endosperm
- 16. Self-pollination in flowers which never open up in its life span is known as
 - (A) autogamy
 - (B) homogamy
 - (C) cleistogamy
 - (D) allogamy

17.	In p	omegranate, the frui	t is known		aty of Bougainvilled	a flower is
	as			bec	ause of	
	(A)	balausta		(A)	calyxes	
	(B)	реро		(B)	bracts	
		amphisarca		(C)	sepals	(C)
	(D)	hesperidium		(D)	petals	
18.	The	cell theory was prop	osed by		osperm is absent in the	
	(A)	Schleiden and Schw	wann	(A)	gram	
	(B)	Darwin and Wallace	e (81)	(B)	cumin	(0)
	(C)	Mendel and Morgan			orchid	
	(D)	Watson and Crick			castor 15 manual	
19.	Ribos	somes are centre for		asilvan, am	receivage lo acere	
	(A)	respiration	(A)	23. The	'eyes' of potato tube	rs are
		protein synthesis		(A)	shoot buds	
	(C)	photosynthesis		(B)		
	(D)	lipid synthesis		(C)	root buds	
				(D)	axillary buds	
20.		plast is a d neable membrane the	at encloses		plant with most dura	
	(A)	cytoplasm		(A)	hollong	
	(B)	nucleus		(B)	sissoo	
	(C)	vacuole manufaction	(O)	(C)	sal sanhsto	
	(D)	mitochondria	(a)	(D)	teak	(0)

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25.	Cork	tissue arises from	29.	Aere	nchyma is found in
	(A)	periderm		(A)	lithophytes
	(B)	phellogen (A)		(B)	sciophytes
	(C)	phelloderm		(C)	hydrophytes
		phellem		(D)	xerophytes (5)
	(15)	(D) chloramphenical	30.	Quie	scent centre is associated with
26.		allary rays are made up of		(A)	shoot 3 mad mom
		parenchymatous cells		(B)	root
	(B)	sclerenchymatous cells			ground tissue
	(C)	fibres Andrew (E)		(D)	epidermal tissue
	(D)	collenchymatous cells		Boe	malous secondary growth in erhaavia shows
27.		orth rings are formed by the vity of		(A)	formation of extrastelar cambium matter (4)
	(A)	cambium		(B)	formation of interxylary cork
	(B)	phloem		(C)	formation of interxylary phloem
	(C)	xylem Markachold (8)	ile	(D)	formation of successive rings of
	(D)	both phloem and xylem			cambia which develop either in the form of concentric rings or segments
28.	end	layer of cells between odermis and vascular bundles	32.	Whi	ch is correct for sapwood?
	is c	alled		(A)	Tyloses are found in them
	(A)	hypodermis		(B)	They are darker in colour
	(B)	cortex muisopoloo (S)		(C)	They are functional in conduction and storage
	(C)	pith manaborbutt (D)		(D)	(C) seawater that and the
	(D)	pericycle kadyy (0)			commerce same (C)

33.	In	dicoty	ledonous	roots
000	TTT	WICOLY.	cuonous	10000

- (A) pith is large and well-developed
- (B) secondary growth does not occur
- (C) number of vascular bundles varies from 2-6
- (D) number of vascular bundles more than 6 or 8

34. Chlorella reproduces only asexually by the formation of

- (A) autospores
- (B) biflagellate zoospores
 - (C) quadriflagellate zoospores
 - (D) uniflagellate zoospores

35. Chitin is a

- (A) polysaccharide
- (B) nitrogenous polysaccharide
- (C) lipoprotein
 - (D) protein

36. Volvox colonies are found in

- (A) freshwater ponds
- (B) salt lakes
 - (C) seawater
 - (D) spring

37. The antibiotic produced by *Chlorella* is known as

- (A) chloromin
- (B) chloromycetin
- (C) chlorellin
- (D) chloramphenicol

Reticulate chloroplast with pyrenoids are present in

- (A) Oedogonium
- (B) Ulothrix
- (C) Batrachospermum
- (D) Chlorella

39. Which of the following is a prokaryotic alga?

- (A) Polysiphonia
- (B) Cladophora
- (C) Anabaena
- (D) Ectocarpus

40. An example of colonial coenocytic alga is

- (A) Spirogyra
- (B) Oedogonium
- (C) Hydrodictyon
- (D) Volvox

41.	_	mous mode of reproduction is n in	45. Th	ne c	cystocarp in Batrachospermum is
	(A)	Ulothrix	(4	A)	haploid
	(B)	Cladophora	(1	B)	diploid (A)
	(C)	Chlorella (E)	(1	C)	triploid material (4)
	(D)	Vaucheria	C	D)	polyploid
42.	Pyrei	noids are			
	(A)	starch bodies surrounded by protein grains	46. W	hite	e rust of crucifers is caused by
	(72)	The man and the second	. (A)	Puccinia
	(B)	starch bodies surrounded by oil droplets		B)	Ustilago
	(C)	protein bodies surrounded by oil droplets	(1	C)	cystocarp
	(D)	protein bodies surrounded by starch plates	(D)	Peziza
43.	Rese	rve food 'floridean starch' is	47. CI	lam	p connection is common in
	four	nd in smill (0)	(A)	Ascomycetes
	(A)	Chlamydomonas		B)	Basidiomycetes
	(B)	Polysiphonia			in Periodium nofakim
	(C)	Chara	(C)	Phycomycetes
	(D)	Vaucheria sago smisso \$2	vd bo	D)	Deuteromycetes
44.	of a	siphonia exhibits a special kind alternation of generations which	48. Th	ne t	term 'mycorrhiza' was coined by
	is c	alled	(A)	Frank
	(A)	isomorphic (8)	(B)	Beijerinck
	(B)	haplontic			mirror oprigati (3)
					f the same on the cell
	(C)	diplontic		C)	Campbell

49.		lichen, the type of cess is known as		52. Gree	en mould is common name for
	(A)	heliotism		(A)	Neurospora
	(B)	symbiotism	(0)	(B)	Mucor
	(C)	halotrophy	(0)	(C)	Penicillium
	(D)	heliotrophy			Saccharomyces
50.		ch of the following ing of bread?		bry	most economically important ophyte among the following is
	(A)	Rhizopus stolonifer			Funaria
	(B)	Saccharomyces cere	visiae		Marchantia
	(C)	Claviceps			Riccia
	(D)	Penicillium notatum	(8)	(D)	Sphagnum
					Sharto (D)
51.	Cove	red smut of barley is	caused by	54. Gemi	ma cups are found in
	(A)	Ustilago nuda		(A)	Sphagnum
ń	(B)	Ustilago tritici		(B)	Marchantia
	(C)	Ustilago hordei	(0)	(C)	Riccia Stratique (5)
	(D)	Ustilago graminis		(D)	Anthoceros

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55.		doelaters are found in the rophyte of	59.	The	stele in the rhizome of Marsilea
	(A)			(A)	protostele .
	(B)	Pellia (6)		(B)	haplostele .
	(C)	Polytrichum		(C)	dictyostele
	(D)	Anthoceros		(D)	amphiphloic siphonostele
56.	Rhizo	pids of Sphagnum are	60.	veg	nation of sporophyte from a etative portion of prothallus is
	(A)	unicellular		call	
	(B)	green-coloured		(A)	apocarpy
	(C)	unicellular with septa			apogamy
	(D)	multicellular with oblique		(C)	apomixis
		septa		ALCOHOL:	apospory .
57.		common element in the xylem of ridophyte is		Whic	ch of the following does not have ith?
	(A).	trachea		(A)	Protostele
	(B)	tracheid		(B)	Solenostele
	(C)			(C)	Siphonostele
	(D)			tioni	Dictyostele
58.		ocorm is found in			lloid roots occur in
	(A)	Lycopodium		(A)	Cycas (A)
	(B)	Selaginella 1991		(B)	Pinus dell guissim (E)
	(C)	Equisetum (1)		(C)	Gnetum molecular (0)
	(D)	Marsilea		(D)	Ephedra (Spinish (C))

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P.T.O.

63.	Cyca	s ovule is	67.	Linna	aeus' system of classification is
	(A)	anatropous		(A)	artificial system
	(B)	orthotropous		(B)	natural system
	(C)	hemianatropous		(C)	phylogenetic system
	(D)	campylotropous		(D)	synthetic system
64.	Pinus	s differs from angiosperm in	68.	Spike	elets with glumes are found in
		green leaves		(A)	Cyperaceae
		presence of wood		(B)	Poaceae Moo Made
		ovules without an enclosing		(C)	Arecaceae
		ovary	updi	(D)	Araceae
65.	The f	emale gametophyte of Gnetum is	69.	Alliu	m cepa belongs to
	(A)	monosporic		(A)	Musaceae
	(B)	bisporic		(B)	Arecaceae
	(C)	trisporic		(C)	Brassicaceae
	(D)	tetrasporic		(D)	Liliaceae
66.	cha	fossil organisms which show racters of two different groups of mals are called	70.	The	botanical name of sunflower is
	(A)	transitional forms		(A)	Helianthus annuus
	(B)	missing links		(B)	Helianthus tuberosus
	(C)	transitory organisms		(C)	Tagetes patula
	(D)	past links		(D)	Tagetes erecta

(A) kelvin (B) joule (C) pascal (C) xylem (D) newton (D) cortex 72. Root pressure is developed in (A) xylem (B) phloem (C) cortex (D) pith (C) pith (C) pith (C) twall pressure (A) loo and zero (B) zero and zero (C) loo and loo (D) zero and loo (E) auxanometer (E) auxanometer (C) respirometer (D) porometer (E) auxanometer (C) respirometer (D) porometer (E) C ₃ plants (C) C ₄ plants (D) diffusion pressure (D) diffusion pressure (D) diffusion pressure (D) succulent plants	71.		otic pressure of a solution is ally measured in	75.		duction of sap in plants occurs
(C) pascal (D) newton (D) newton (D) cortex 72. Root pressure is developed in (A) xylem (B) phloem (C) cortex (D) pith (C) 100 and 100 (D) zero and 100 (D) zero and 100 (E) zero and 200 (D) zero and 100 (E) zero and 200 (D) zero and 100 (E) zero and 200 (E) zero and 100 (E) zero		(A)	kelvin a bus usaus (A)		(A)	heartwood (A)
(D) newton (D) cortex 72. Root pressure is developed in (A) xylem (B) phloem (C) cortex (D) pith (C) to and zero (C) cortex (D) pith (C) to and 100 (D) zero and 100 (D) zero and 100 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 100 (E) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 100 (E) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 200 (E) zero and 100 (D) zero and 100 (E) zero and 200 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 200 (D) zero and 100 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 200 (D) zero and 100 (E) zero and 200 (D) zero and 100 (D) zero and 100 (D) zero and 200 (E) zero and 200 (D) zero and 100 (D) zero and 200 (D) zero and 20		(B)	joule in has refew (4)		(B)	bark bengagnam (8)
72. Root pressure is developed in (A) xylem (B) phloem (C) cortex (D) pith (C) pith (C) to and 100 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 2ero (D) porometer (E) zero and 2ero (E) zer		(C)	pascal DAT 400 DA		(C)	xylem dollass (3)
(A) xylem (B) phloem (C) cortex (D) pith (C) 100 and 100 (D) zero and 100 (D) zero and 100 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 2ero (E) zero and 100 (E) zero and 100 (E) zero and 2ero (E		(D)	newton 100 100		(D)	cortex
(B) phloem (C) cortex (D) pith (C) pith (C) 100 and 2ero (D) pith (C) 100 and 100 (D) 2ero and 100 (E) 2ero and 100 (D) 2ero and 100 (E) 2ero and 2ero (E) 2ero and	72.		by the application of	76.		tiget activation of Salmanage
(C) cortex (D) pith (C) 100 and 100 (D) zero and 100 (D) zero and 100 (D) zero and 100 (D) zero and 100 (E) zero and 100 (D) zero and 100 (E) zero and 200 (E)			misure TAN		(A)	100 and zero
(C) 100 and 100 (D) zero and 100 (D) zero and 100 (D) zero and 100 (E) 100 and 100 (D) zero and 100 (E) 200 and 100 (D) zero and 100 (E) 200 and 200 ((C)	cortex (2)		(B)	zero and zero
73. Which one of the following theories for ascent of sap was proposed by Sir J. C. Bose? (A) Pulsation theory (B) Root pressure theory (C) Relay pump theory (D) Transpiration pull theory 74. When the plant cells are fully turgid, the turgor pressure is equal and opposite to the (A) diffusion pressure deficit (B) canong's potometer (C) respirometer (D) porometer 78. Stomata open at night in (A) CAM plants (B) C ₃ plants (C) wall pressure (C) C ₄ plants		(D)	pith (a)		(C)	100 and 100
Sir J. C. Bose? (A) Pulsation theory (B) Root pressure theory (C) Relay pump theory (D) Transpiration pull theory 74. When the plant cells are fully turgid, the turgor pressure is equal and opposite to the (A) diffusion pressure deficit (B) osmotic pressure (C) wall pressure 77. Rate of transpiration can measured by (A) Ganong's potometer (B) auxanometer (C) respirometer (D) porometer 78. Stomata open at night in (A) CAM plants (B) C ₃ plants (C) Wall pressure (C) Value plants	73.		h one of the following theories		(D)	zero and 100
(A) Pulsation theory (B) Root pressure theory (C) Relay pump theory (D) Transpiration pull theory (C) Transpiration pull theory (C) respirometer (D) porometer (D) porometer (E) auxanometer (D) porometer (E) Transpiration pull theory (D) porometer (E) A CAM plants (E) Osmotic pressure (B) C ₃ plants (C) C ₄ plants			J. C. Bose?	77.	Rate	of transpiration can be
(B) Root pressure theory (C) Relay pump theory (D) Transpiration pull theory (C) respirometer (D) porometer (D) porometer (E) auxanometer (D) porometer (E) A Stomata open at night in (E) Osmotic pressure deficit (E) Osmotic pressure (C) Vall pressure (C) C ₄ plants		(A)				
(C) Relay pump theory (D) Transpiration pull theory (C) respirometer (D) porometer (D) porometer (E) auxanometer (C) respirometer (D) porometer (E) A composite to the (D) porometer (E) Composite to the (D) porometer (E) Composite to the (E) C		(B)	Root pressure theory		(A)	
(D) Transpiration pull theory (D) porometer 74. When the plant cells are fully turgid, the turgor pressure is equal and opposite to the (A) diffusion pressure deficit (B) osmotic pressure (C) wall pressure (C) wall pressure (D) porometer 78. Stomata open at night in (A) CAM plants (B) C ₃ plants (C) C ₄ plants		(C)	Relay pump theory		(B)	auxanometer
74. When the plant cells are fully turgid, the turgor pressure is equal and opposite to the (A) diffusion pressure deficit (B) osmotic pressure (C) wall pressure (C) wall pressure (C) C ₄ plants		(D)	Transpiration pull theory		(C)	respirometer
the turgor pressure is equal and opposite to the (A) diffusion pressure deficit (B) osmotic pressure (C) wall pressure (C) wall pressure (C) C ₄ plants	74.	When	n the plant cells are fully turgid,		(D)	porometer
(B) osmotic pressure (B) (B) C ₃ plants again (B) (C) wall pressure (D) (C) C ₄ plants of the control (D)		the	turgor pressure is equal and			
(C) wall pressure (C) C ₄ plants phomeo (O)		(A)	diffusion pressure deficit		(A)	CAM plants
The same beautiful to the same of the same		(B)	osmotic pressure		(B)	C ₃ plants (a)
(D) diffusion pressure (D) succulent plants		(C)	wall pressure		(C)	C ₄ plants of omeo (0)
		(D)	diffusion pressure		(D)	succulent plants (G)

79.	The most abundant element present	83. The end products of aerobic
	in plant is	respiration are
	(A) nitrogen boowmood (A)	(A) sugar and oxygen
	(B) manganese stad (B)	(B) water and energy
	(C) carbon malyx (O)	(C) CO ₂ , H ₂ O and energy
	(D) iron	(D) CO ₂ and energy
80.	In N ₂ -fixation process, nitrite is converted to nitrate by	84. Apical dominance can be overcome by the application of
	(A) Nitrobacter	(A) auxin
	(B) Azotobacter	(B) gibberellin
	(C) Nitrosomonas	(C) cytokinin
	(D) Azospirillum	(D) florigen
81.	In photosynthesis, reaction centre of pigment system-I is	85. Which of the following is a long-day plant?
81.		
81.	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀	plant?
81.	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀	plant? (A) Glycine max
81.	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀	plant? (A) Glycine max (B) Spinach
	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀ (D) P ₇₂₀	plant? (A) Glycine max (B) Spinach (C) Mirabilis jalapa
	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀ (D) P ₇₂₀ Release of water from plants as water	plant? (A) Glycine max (B) Spinach (C) Mirabilis jalapa (D) Soya bean 86. Ecological succession on the sandy
	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀ (D) P ₇₂₀ Release of water from plants as water droplet is known as	plant? (A) Glycine max (B) Spinach (C) Mirabilis jalapa (D) Soya bean 86. Ecological succession on the sandy soil is called
	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀ (D) P ₇₂₀ Release of water from plants as water droplet is known as (A) root pressure	plant? (A) Glycine max (B) Spinach (C) Mirabilis jalapa (D) Soya bean 86. Ecological succession on the sandy soil is called (A) psammosere
	pigment system-I is (A) P ₆₈₀ (B) P ₆₉₀ (C) P ₇₀₀ (D) P ₇₂₀ Release of water from plants as water droplet is known as (A) root pressure (B) transpiration	plant? (A) Glycine max (B) Spinach (C) Mirabilis jalapa (D) Soya bean 86. Ecological succession on the sandy soil is called (A) psammosere (B) xerosere

87. Mendel's second law is the law of	90. Chemical theory of origin of life was given by
(A) independent assortment	(A) Extinction
(B) fractose	(A) Stanley Miller
(B) segregation	(B) Spallazani
(C) dominance	(C) Oparin and Haldane
(D) polygenic inheritance	(D) Louis Pasteur
	Santiqueest
88. The genotype of a plant showing a dominant phenotype can be determined by	91. The wings of bat and bird are
(G) adding special type of enzym	(A) homologous but not analogous
(A) backcross	(D)
(B) testcross	(B) neither homologous nor analogous
(C) dihybrid cross	(C) analogous but not homologous
(D) pedigree analysis	(D) vestigial
	(C) Teclona grandis
398 Down's syndrome is due to	92. Galapagos Islands are associated with the name of
(A) linkage AVII to finudus	(A) Lamarck
(B) sex-linked inheritance	(B) Wallace
(B) Carbohydrate	
(C) crossing-over	(C) Darwin
(D) non-disjunction of chromosome	(D) Weismann of store (C)

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93.	Which one is linked to evolution?	97. The sugar present in sugarcane is
	(A) Extinction	(A) glucose
	(B) Competition	(B) fructose
	(C) Variation	(C) sucrose
	(D) Reproduction	(D) ribose
94.	Which part of Rauwolfia plant is used to obtain the alkaloid	98. Green tea is prepared by
	reserpine?	(A) fermentation of tea leaves
	(A) Leaf (B) Bark	(B) without fermentation of tea leaves
	(C) Root	(C) adding special type of enzyme
	(D) Stem	(D) adding green colour
	anosiniana .	99. Chromosomes are best seen in
95.	The botanical name of jute is	(A) interphase
	(A) Shorea robusta	(B) prophase
	(B) Corchorus capsularis	(C) metaphase
	(C) Tectona grandis	(D) telophase
	(D) Mangifera indica	of out at supplier at the second at the seco
96.	Protein is obtained mainly from	100. Which of the following is structural subunit of DNA?
	(A) belladona	(A) Protein
	(B) rice	(B) Carbohydrate
	(C) mustard	(C) RNA
	(D) soya bean many (D)	(D) Nucleotide