SEAL

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

T. B. C.: CS - 11/13

Serial No.

228246

Test Booklet Series



TEST BOOKLET

O. C. S. Preliminary Examination (FORESTRY)

Time Allowed: 2 Hours

Maximum Marks: 300

: INSTRUCTIONS TO CANDIDATES :

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT
 THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS
 ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF SAME SERIES ISSUED TO
 YOU.
- ENCODE YOUR OPTIONAL SUBJECT CODE AS MENTIONED ON THE BODY OF YOUR ADMISSION CERTIFICATE AND ADVERTISEMENT AT APPROPRIATE PLACES ON THE ANSWER SHEET.
- ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
- You have to enter your Roll No. on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 5. This Test Booklet contains 120 items (questions). Each item (question) comprises four responses (answers). You will select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), mark (darken) the response (answer) which you consider the best. In any case, choose ONLY ONE response (answer) for each item (question).
- You have to mark (darken) all your responses (answers) ONLY on the separate Answer Sheet provided, by using BALL POINT PEN (BLUE OR BLACK). See instructions in the Answer Sheet.
- 7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. There will be negative markings for wrong answers. 25 percent of marks allotted to a particular item (question) will be deducted as negative marking for every wrong response (answer).
- Before you proceed to mark (darken) in the Answer Sheet the responses to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions in your Admission Certificate.
- 9. After you have completed filling in all your responses on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the Answer Sheet and the Test Bookiet issued to you. Yor are allowed to take with you the candidate's copy/second page of the Answer Sheet, after completion of the examination, for your reference.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Selection generation after generation 5. Genetic nature of self pollinated crops with inter breeding of selected plants is are: called: Plants are homozygous and (a) Recurrent selection homogenous Reciprocal recurrent selection (b) Plants are heterozygous and (c) Recurrent selection for SCA heterogenous Recurrent selection for GCA Diverse genetic materials Plants are all haploids (d) 2. In most trees the receptive period of flowers lasts: Progeny of single self fertilized (a) 1-3 days for single flower homozygous population is called as: 10-15 days for single flower Mass selection 2-5 days for single flower Back cross breeding (d) 4-5 days for single flower Pure line selection (d) Selection Back cross breeding method was proposed by: The external appearance of Mende! organisms is called as (b) Harlan and Pope Genotype (c) M. S. Swaminathar Phenotype Heterosis Genetic makeup In mass selection plants are selected on the basis of phenotypic and harvested Organisms having only one complete seeds are composited: set of chrmosomes: (a) Without progeny test Haploids With progeny test Triploids Bulking Dyads (d) Mixed varieties Triads

	The second state of the se					
	P. Charles L. Lindson	13.		ld Environment Day is celebrated		
were sta	rted nearly:		on:	And the second second second		
(a) 20) years ago		(a)	21 st March		
(b) 30	0 years ago		(b)	5 th August		
(c) 40	0 years ago		(c)	5 th June		
(d) 60	0 BC		(d)	21 st December		
The pro-	cess of transfer of characters	14.	Fore	est Conservation Act was enacted		
from one	generation to next generation		in th	e year:		
is called	as; introduced for	tinn	(a)	1972		
(a) He	ridity		(b)	2002		
(b) En	vironment		(c)	1988		
(c) Cy	togeneties		(d)	1980		
(d) Bio	ology	15.	The	'whistling hunter' is a carnivore		
The 'Ga	soline plant' refers to :		kno	wn as:		
(a) Eu	phorbia lathyris		(a)	Leopard		
(b) Sa	Ivadora persica		(b)	Sloth bear		
(c) St	erculia foetida		(c)	Wild dog		
(d) Th	evetia peruviana		(d)	Caracal		
Which o	of the following spaces do not	16.	Kar	nha National Park is the last		
contribute to in situ conservation?			stronghold of an endangered animal:			
(a) Na	ational Park		(a)	Wild buffalo		
(b) Bo	otanical Garden		(b)	Lion-tailed Macaque		
(c) Tig	ger Reserve		(c)	Hard ground Barasingha		
(d) W	ildlife Sanctuary		(d)	Hangul		
- 13B/19		(3)		(Tum over)		
	(a) 200 (b) 300 (c) 400 (d) 600 The prodiscalled (a) He (b) En (c) Cy (d) Bid The Gar (a) Eu (b) Sa (c) St (d) Th Which contribut (a) Na (b) Bc (c) Tig (d) W	 (b) 300 years ago (c) 400 years ago (d) 600 BC The process of transfer of characters from one generation to next generation is called as: (a) Heridity (b) Environment (c) Cytogeneties (d) Biology The 'Gasoline plant' refers to: (a) Euphorbia lathyris (b) Salvadora persica (c) Sterculia foetida (d) Thevetia peruviana Which of the following spaces do not contribute to in situ conservation? (a) National Park (b) Botanical Garden (c) Tiger Reserve 	were started nearly: (a) 200 years ago (b) 300 years ago (c) 400 years ago (d) 600 BC The process of transfer of characters from one generation to next generation is called as: (a) Heridity (b) Environment (c) Cytogeneties (d) Biology The 'Gasoline plant' refers to: (a) Euphorbia lathyris (b) Salvadora persica (c) Sterculia foetida (d) Thevetia peruviana Which of the following spaces do not contribute to in situ conservation? (a) National Park (b) Botanical Garden (c) Tiger Reserve (d) Wildlife Sanctuary	were started nearly: (a) 200 years ago (b) 300 years ago (c) 400 years ago (d) 600 BC The process of transfer of characters from one generation to next generation in the is called as: (a) Heridity (b) Environment (c) Cytogeneties (d) Biology The 'Gasoline plant' refers to: (a) Euphorbia lathyris (b) Salvadora persica (c) Sterculia foetida (d) Thevetia peruviana Which of the following spaces do not contribute to in situ conservation? (a) National Park (b) Botanical Garden (c) Tiger Reserve (d) Wildlife Sanctuary (d)		

17.	Spe	cies diversity is highest in:	21	. In	Н	igh Forest Ecosystem Density and
	(a)	Temperate forests		Fr	rec	quency are to each
	(b)	Subtropical forests		ot	he	r.
				(a)	Directly proportional
	(c)	through the state of the state		(b)	Inversely proportional
	(d)	Tropical forests		(c)	Equal to each other
18.	Mar	ine mammals include :		(d)	None of the above
	(a)	Sea cucumber, Corals and	22	2. St	at	bilization of sand dunes are done
		Polychaetes		by	/:	
	(b)	Mammoth, Mouse deer and		(a	1)	Dona plantation
		Mugger		(b)	Shrub cultivation
	(c)	Manatee, Dugong and Whale		(c)	Earthen (Kachcha) brick plantation
	(d)	Caulapa, Halimeda and Codium		(d)	None of the above
19.	End	lemics are :	23	3. N	et	Primary productivity is calculated
	(a)	Species with wide distribution		as	5 :	
	(b)	Species with restricted		(a	1)	NPP + R
		distribution		(b)	GPP-R
	(c)	Biomes of wide range		(c	()	GPP+R
	(d)	Biomes of narrow range		(d	1)	Both (a) and (b)
	(0)	biomes of narrow range	24	4. P	lai	ntation of wasteland serves the
20.	Trop	pical rain forests occur in :				pose of for the local
	-(a)	Polar region, Russia				bitants.
	(b)	Central Africa, Central and South		(a	1)	Fuel and Fiber
		America, South and South-East		(b)	Fodder and Food
		Asia		(0		Fruits
	(c)	North America, Russia				77010
	(d)	Deccan Plateau, North America		(0	1)	Both (a) and (b)
KR	- 13E	3/19	(4)			Contd.

	otrophs are primary producers and		(b)	Gaseous cycle
prin	ne utilizer of :		(c).	Nutrient cycle
(a)	Water in the soil		(d)	None of the above
(b)	Rain water	30.	Micr	obes are designated as
(c)	Solar energy		ofth	e ecosystem.
(d)	Wind energy		(a)	Pathogens
6. Pyr	amid of Energy in the Ecosystem is		(b)	Destroyers
alw	ays:		(c)	Scavengers
(a)	Inverted		(d)	Consumers
(b)	Inverted and upright both			
(c)	Upright	31.	THEFT	fixed oil from Melia azedarach
(d)	None of the above		see	ds is a:
7. Lei	ngth of food chain in the Ecosystem		(a)	Drying oil
	is dependent upon the :		(b)	Semi-drying oil
(a)	Homogenecity of species		(c)	Non-drying oil
(b)	Endemism		(d)	None of the above
(c)	Heterogenecity of species	32.	See	d drug is obtained from :
(d)	Conservation of species		(a)	Saussurea lappa
8. Silv	viculture is the art and science of :		(b)	Picrorhiza burrooa
(a)	STORY IN CALLS		(c)	Strychnos nuxvomica
(b)	master error on intrinsic to the		(d)	Glycerrhiza glabra
(c)	Growing trees	33.	Bes	st Bidi leaves are got from :
(d)			(a)	Root suckers
	(b) Eucelyptus		(b)	Mature trees
ener of	cling of Carbon and Nitrogen falls		(c)	Small trees
	der the category of :		(d)	All of the above
(a)	Sedimentary cycle		(u)	All of the above
(R - 13	B/19	(5)		(Tum over

34.	Stoc	ck preparation of pulp refers to :		(c)	Tassar
	(a)	Beating		(d)	Lac
	(b)	Sizing	39.	Bals	sams are :
	(c)	Wading		(a)	Oleoresins
	(d)	All of the above		(b)	Gums valene raina (a)
35.	Kath	na is extracted from :		(c)	Gum-resins
	(a)	Sapwood		(d)	
	(b)	Heartwood			
	(c)	Modified wood	40.		direction of fall is easy to maintain
	(d)	None of the above		in fe	Illing of :
36.	Smo	oking treatment to canes is given to		(a)	Crooked tree
00.	get	and the second of the second s		(b)	Leaning tree
	(a)	Red colour		(c)	Straight tree
	(b)	Black colour		(d)	None of the above
	(c)	Reddish brown colour	41.	Alle	lopathic effect of trees on inter-
	(d)	Green colour		cult	ivated crop is:
37.	The	capsules of Bombox Cieba		(a)	Positive
	yield	STOR USE PRODUCE DE LA PROPERTIE		(b)	Neutral
	(a)	Coir		(c)	Negative
	(b)	Floss		(d)	Positive or Negative
	(c)		42.		st widely on-farm grown exotic
	(d)				era in India is
38.		shakhi, Kusumi and Rangini crops		(a)	Populus
	are	of:		(b)	Eucalyptus
	(a)	Cane		(c)	Acacia (100mm) (100mm) (100mm)
	(b)			(d)	Leucaena
				(4)	electric de la company (e)
KR	- 13E	3/19	6)		Contd.

43. Which of the following is non-	(b) Azadirachta indica
leguminous nitrogen fixing species?	(c) Butea monosperma
(a) Alnus nitida	(d) Tectona grandis
(b) Leucaena leucocephala (c) Pongamia pinnata (d) Robinia pseudoacacia	48. NFTs raised in social forestry programme belong to the family; (a) Ranunculaceae
44. A tree whose stem has been cut off at a definite height in order to obtain a flush of shoots is called:	(b) Liliaceae
(a) Lopped	(d) Compositae
(b) Thinned	49. The agroforestry systems can be
(c) Pruned	classified according to :
(d) Pollarded	(a) Structural basis
45. Acacia albida is preferred in	(b) Functional basis
agroforestry due to :	(c) Ecological basis
(a) Winter deciduous nature (b) Reverse phenology	(d) All of the above
(c) Nitrogen fixing ability	50. Tree crop interaction leads to which
(d) Multiple uses	effect ?
46. Diagnosis and design approach in	(a) Complimentary
agroforestry was developed by:	(b) Supplementary
(a) IUFRO	(c) Competitive
(b) ICFRE	(d) None of the above
(c) ICRAF	51. "Access and benefit sharing" of forest
(d) ICRISAT	produce in the tribal rich areas of the
47. In alley cropping, the commonly used	state of Orissa is one of the most
species is :	important issues of the concerns of
(a) Gliricidia seplum	national and international framework r

(7)

KR - 13B/19

(Turn over)

- conventions. Name the correct one from the following:
- (a) Intergovernmental panel on climate change
- (b) National Biodiversity Authority
- (c) Convention of Biological Diversity
- (d) State Biodiversity Management Committees
- 52. Which species among the following is considered most suitable for planting in wasteland in the state of Orissa?
 - (a) Jatropha curcas
 - (b) Melia azederach
 - (c) Diospyros melanoxylon
 - (d) Elaeis guinensis
- 53. Which of the following villages in Orissa state is an example of an innovative step of involving the local people in rehabilitation of degraded forests? The intangible flow of benefits from the forests was considered as a distinct achievement:
 - (a) Arabari village
 - (b) Richaria village
 - (c) Eklingpura village
 - (d) Budhikhamari village

- 54. Which is the correct definition of National Forest out of the following?
 - (a) Those forests which must be preserved or created for physical and climatic conditions
 - (b) Those forests which have to be maintained to provide firewood, grazing for cattle, yield small timber for agricultural implements and other forest produce for local requirements
 - (c) Those forests which have to be maintained and managed to meet the need of defense, industry, communications and other general purposes of public importance
 - (d) Those areas with trees which through outside the scope of the ordinary forest management essential for the amelioration of the physical conditions of the country
- 55. State Forest Department under the National Forest Policy (1994) have which specific duty of the following:
 - (a) To awaken the interest of the state authorities in the development of extension and establishment of tree-lands

KR - 13B/19 (8)

- (b) To develop less preference to the species of commercial importance
- (c) To establish nurseries of exotic species of economic value only
- (d) All of the above
- 56. National Forest Policy (1952) was affected by National Commission on Agriculture (1976) through which one of the following?
 - (a) Revision of forest policy by incorporating significant shifts and stresses out of the recommendations of the Central Board of Forestry in its XVth meeting in 1976
 - States are not the ultimate authority on to implement a policy decision
 - (c) The forest conservation and protection are to be separated from the life-style of tribals
 - (d) People's participation in the management of wildlife in agriculture lands
- 57. Under which of the following Articles of the Indian Constitution safeguarding the forests and wildlife of the country has been enshrined?
 - (a) Article 48-A

- (b) Article 51-A
- (c) Article 15
- (d) Article 19
- 58. Which of the following has bearing on forest management with respect to production forestry, soil conservation, inter-state trade and commerce, reclamation and development of interstate river valleys?
 - (a) National Commission on Agriculture Report (1976)
 - (b) Sixth Five Year Plan Document (1980-85)
 - (c) Fuelwood Study Committee Report (1982)
 - (d) Plan Development Programmes in Forestry Sector (1981)
- 59. The traditional management of forest is based on silvicultural principles with change in perceptions and conditions in recent time with respect to the preparation of working plan. Several forests and forestry related cross-cutting issues have emerged for the integrated approach on the management through conventions and frameworks. Answer the correct one from the following in this regard:

(Turn over)

- (a) UNCLS
- (b) UNFCCC

KR-13B/19 (9)

- (c) CCAMLR
- (d) UNIDO
- 60. Sustainable forest management through the criterion of optimization of forest resource utilization is supported by which of the following indicators?
 - (a) Contribution of forest to the income of forest dependent people
 - (b) Status of information dissemination and utilization
 - (c) Forst resource accounting
 - (d) Level of material and technological inputs
- 61. India has the distinction of having the best managed and productive forests among the developing nations. Some of the plantations on timber yielding species are the oldest in Asia. Name the correct species from following being the oldest in Asia:
 - (a) Deodar in Himachal Pradesh
 - (b) Teak in Kerala
 - (c) Mulberry in Pakistan
 - (d) Sal in Jharkhand
- 62. Name the correct answer out of the following where yield is regulated by volume through a method/formula which allows to ascertain the number of trees

- of exploitable girth which might be removed annually without endangering potential yield. The diameter classes are denoted as I, II, III, IV, V and so on. The potential number of trees for annual harvest is calculated by multiplying the actual numbers in each girth case with survival % of that class:
- (a) Smythies' safe-guarding formula
- (b) Masson's Methods
- (c) Howard's modified method
- (d) Dr. Brandis's method
- 63. Which one of the following attributes a normal forest has?
 - (a) Series of age gradations achieved in man made forests
 - (b) Age class found in even aged, heterogeneous natural forests
 - (c) With such volumes of tree of even age distributed and growing that they produce equal volumes of the produce
 - (d) Forest which is managed by people's participation
- 64. Which Biosphere Reserve of the following occupies largest area in square kilometer?
 - (a) Sunderbans
 - (b) Similipal

Contd.

- (c) Gulf of Mannar
- (d) Kanchenjunga
- 65. Which one of the following is the actual forest cover as % of geographical area of the state of Orissa?
 - (a) 31.37
 - (b) 35.33
 - (c) 28.40
 - (d) 41.75
- 66. Which one of the following is the correct figure for National Parks (NP) and Wild Life Sanctuaries (WLS) in the State or Orissa?
 - (a) 2 NP and 18 WLS
 - (b) 2 NP and 11 WLS
 - (c) 1 NP and 11 WLS
 - (d) 1 NP and 10 WLS
- 67. A site with occurrence of deep rooted tall grass and 1-3 m in height occurring in humid subtropical climate is referred as:
 - (a) Prairie
 - (b) Savanna
 - (c) Steppe
 - (d) Brake

- 68. Timber line in eastern Himalaya is higher than in western Himalayas because of:
 - (a) Least impact of migration and encroachment
 - (b) Higher precipitation and trend of rains
 - (c) Collection of timber for fuel and construction purposes
 - (d) Higher species diversity of coniferous flora
- 69. One of the following plant is an obnoxious weed in the forest and surroundings of Orissa and adjoining states is:
 - (a) Ageratum conyzoides
 - (b) Chromolaena odoratum
 - (c) Parthenium hysterophorus
 - (d) Cassia tora
- 70. Which one of the following can be considered as a most seasoned timber yielding forest tree in terms of the climatic, edaphic and geographical variability?
 - (a) Tectona grandis
 - (b) Shorea robusta
 - (c) Casuarina equisetifolia
 - (d) Dipterocarpus turbinatus

KR-13B/19 (11)

(Turn over)

- 71. A working plan of a forest area is prepared while considering which of the following?
 - (a) Principles of sustained yield
 - (b) Administrative area forming a manageable block
 - (c) Continuity of policy and execution in order to produce the desired results
 - (d) All of the above
- 72. In a silvicultural system followed, it has been observed that the crop is unevenaged with all age classes mixed together, the trees are systematically and singularly removed. Regeneration fellings are distributed over the whole felling series. Name the correct system out of the following:
 - (a) Improvement Fellings System
 - (b) Selection System
 - (c) Group Selection System
 - (d) Group System
- 73. Which combination is correct out of the following answers for the systems mentioned?
 - (a) Crop is even-aged as the natural regeneration assisted by artificial one with uniform seeding felling over a compartment

- (b) Crop is even when young, but even aged later if the regeneration interval is large and the regeneration is not assisted by sowing or planting
- (c) Crop is even with short regeneration, assisted by artificial regeneration
- (d) Crop is even-aged with short regeneration interval and d. b. h. is specified for the future crop
- 74. In which silvicultural system the tree crop is removed by compartments by clear felling, with no reservation of a shelterwood and coppice is often assisted by artificial regeneration in strips and lines. The type of crop is even-aged:
 - (a) Coppice with standard system
 - (b) Simple coppice system
 - (c) Shelterwood coppice system
 - (d) Coppice selection system
- 75. Name the correct silvicultural system which is followed out of the answers given below. In this system artificial regeneration is sometimes possible from seeds from adjoining areas or from coppiced advanced growth or from seed fallen on the ground:
 - (a) Irregular shelterwood system

KR - 13B/19 (12) Contd.

- (b) Clear felling system
- (c) Group selection system
- (d) High forest with reserves system
- 76. Name the correct instrument used for the measurement of height of a tree based on the properties of similar triangles:
 - (a) Topographical Abney's Level
 - (b) Brandis's Hypsometer
 - (c) Christen's Hypsometer
 - (d) Watkin's Chinometer
- 77. A tree has been measured three times periodically with initial diameter in 1991 as 5.4 cm, in the year 1996 as 6.0 cm and 2001 as 6.6 cm. Which one of the following is the correct age of the tree in the year 1991s. Age (t) = 1/ps (where s is a constituent to be found as equal to log 1 log p2 upon log d2 log d1):
 - (a) 53 years
 - (b) 55 years
 - (c) 50 years
 - (d) None of the above
- 78. The measurement is taken as standard height for girth, diameter and basal area of standing tree in India when measured at breast height is:
 - (a) 1.37 m

- (b) 1.30 m
- (c) 1 m
- (d) 1.50 m
- 79. Indian region has how many number of major forest types ?
 - (a) 225
 - (b) 5
 - (c) 41
 - (d) 16
- 80. In which categories of forest Indian forest types fall?
 - (a) Warm temperate, Temperate deciduous, Boreal coniferous, Evergreen tropical rain forest
 - (b) Tropical rainforest, Tropical seasonal forest, Arid and semiarid, Mangrove forest
 - (c) Holarctic, Australian, Neotropic,
 Capensis
 - (d) Tropical dry, Deciduous and Rain forest, Temperate evergreen and Mixed forest, Alpine and subalpine
- 81. Abbreviation D₂ in tree classification indicate:
 - (a) Dominant tree
 - (b) Predominant tree
 - (c) Codominant tree
 - (d) Suppressed tree

(13)

(Turn over)

KR - 13B/19

82. Tree height is an indicator of:

	1.1	04-		(4)	Rambaa
	(a)	Site		(d)	Bamboo
	(b)	Species	87.	lna	Chir pine forest control burning after
	(c)	Rainfall		a go	ood seed year :
	(d)	All of the above		(a)	Help seed germination
3.	Ren	ewal of a forest crop by sowing or		(b)	Not help germination
	plan	iting is referred to as:		(c)	Reduce germination
	(a)	Natural regeneration		(d)	Has no effect
	(b)	Artificial regeneration	88.	The	main natural regeneration used
	(c)	Both (a) and (b)		und	er various silviculture systems are :
	(d)	None of the above		(a)	Clear felling
34.	Whi	ile tending the stool coppice how		(b)	Selection system
		ny coppice are retained initially:		(c)	Both (a) and (b)
	(a)	One		(d)	None of the above
	(b)	Two	89.	Sho	orea robusta after germination
	(c)	Three		wor	uld establish itself well if it attains a
	(d)	Four		heig	ght of:
35.	Whi	ile introducing an exotic what is most		(a)	20 cm, por a policy laugh
diti		cial? base 1 sob-lesson 1 (b)		(b)	30 cm
	(a)	Disease resistance		(c)	40 cm
	(b)	Seed size		(d)	50 cm
	(c)	Climate	00		
	(d)	Utility value	90.		ngrove species mostly disperse eds through:
oe.	1A/h	many management of Wandary and	best		Wind
36.		ich of the following is an exotic cies?	SBI	(b)	Water
	(a)	Terminalia		Janes .	
	38500			(c)	Animals
	(b)	Teak		(d)	Birds
KR	- 13E	3/19	(14)		Contd.

(c)

Simaruba

91.	Good seed year for Terminalia		(b)	7
	tomentosa is seen at:		(c)	5
	(a) 1-2 years		(d)	8 Total Control of the Control of
	(b) 2-3 years	96.	How	many Biodiversity hot spots are
	(c) 3-4 years		there	e in India ?
to di	(d) 4-5 years		(a)	1 smm(5 (d)
92.	How many number of fruits are found in		(b)	2 (10)
	one kg of Tectona grandis?		(c)	3 - He ducebound , (b)
	(a) 1760		(d)	4
	(b) 1800	97.	Whi	ch of the forest type is most
par	(c) 1900			ninant in Orissa?
	(d) 1960		(a)	Tropical moist deciduous forest
93.	Seed production depends on :		(b)	Tropical semi-evergreen forest
	(a) Species		(c)	Tropical dry deciduous forest
	(b) Age		(d)	Littoral and swamp forest
	(c) Crown size	98.	Whi	ch of the following district of Orissa
	(d) All of the above		has	highest geographical area under
94.	"High Forest" is the regeneration of	f	fore	st cover ?
Title	forest obtained from:		(a)	Ganjam
	(a) Vegetative propagation		(b)	Keonjhar
	(b) Seed		(c)	Kalahandi
	(c) Root suckers		(d)	Mayurbhanj
	(d) Budding	99.	581	36 km ² of forest area in Orissa
95.	According to Champion and Saith	1	acc	counts for what percent of the total
118	forest of India have been classified into		geo	ographical area of the state?
	how many major groups?		(a)	26.70
	(a) 6		(b)	37.33
KR	R – 13B/19	(15)		(Turn over)

- (c) 28.00
- (d) 45.29
- 100. Forest classification of Indian forests is based on:
 - (a) Vegetation
 - (b) Climate
 - (c) Ecosystem
 - (d) Physiognomy
- 101. Sal Borer is:
 - (a) Hoplocerambyx spinicornis
 - (b) Heteropsylla cubana
 - (c) Hipsipyla grandella
 - (d) Hyblaea Purea
- 102. Cold deserts are not found in :
 - (a) Lahul and Spiti
 - (b) Kinnaur
 - (c) Jaisalmer
 - (d) Ladakh
- 103. A micorrhizal fungus of the tropical region is:
 - (a) Glomus
 - (b) Rhizobium
 - (c) Frankia
 - (d) Pisolithus
- 104. Presence of epiphytes on trunks and branches:
 - (a) Decreases precipitation interception

- (b) Does not affect precipitation interception
- (c) Increases precipitation interception
- (d) Increases surface run off
- 105. In storm frequency analysis, the probability of occurrence of an event being exceeded or equaled in any given year is:
 - (a) The same as return period
 - (b) The reciprocal of the return period
 - (c) The square of the return period
 - (d) One out of ten
- 106. In the energy balance equation for a terrestrial surface, the term 'H' represents:
 - (a) Net Radiation
 - (b) Latent heat of evapo-transpiration
 - (c) Sensible heat
 - (d) Heat flux into the soil
- 107. Adiabatic cooling is due to:
 - (a) Decrease in atmospheric pressure with elevation
 - (b) Air molecules become more tightly packed as air ascends
 - (c) Descent of moisture laden air masses
 - (d) An increase in sensible heat

KR – 13B/19 (16) Contd.

- 108. Subsurface erosion is best exemplified by:
 - (a) Land slides
 - (b) Hydrologic response
 - (c) Overland flow
 - (d) Solutioning of limestone
- 109. Which of the following statements are not associated with orographic storms?
 - (a) A pronounced rain-shadow region on the lee-side
 - (b) Major source of precipitation in the Himalayan region
 - (c) Distribution of precipitation is spotty
 - (d) None of the above
- 110. The driving force for infiltration of water into the soil is:
 - (a) Gravitational and solute potential
 - (b) Infiltration capacity
 - (c) Capillary and gravitational potentials
 - (d) None of the above
- 111. Exchange capacity of clays increases in the order:
 - (a) Montmorillonite < Chlorite <Kaolinite ≤ Illite
 - (b) Kaolinite < Chlorite < Illite < Montmorillonite

- (c) Kaolinite = Illite < Chlorite = Montmorillonite
- (d) Kaolinite = Montmorillonite < Chlorite < Illite</p>
- 112. What is podzolisation?
 - (a) A soil forming process by which igneous rocks, usually of basic composition weather in tropical climates
 - (b) A soil forming process of cool, humid climates in which leaching by organic acids remove bases and translocate sesquioxides from a horizon
 - (c) Disintegration of rocks chemically under the influence of water containing dissolved CO₂
 - (d) Physical disintegration of rocks resulting in exposure of internal surface
- 113. Which of the following is a 'good' indicator of teak?
 - (a) Xylia xylocarpa
 - (b) Dalbergia latifolia
 - (c) Helectres isora
 - (d) None of the above
- 114. The transition zone from one community to another is:
 - (a) Ecocline
 - (b) Sub-climax

(17) (Turn over)

KR - 13B/19

- (c) Post-climax
- (d) Ecotone
- 115. A keystone species is one:
 - (a) With high functional redundancy in a small community / ecosystem
 - (b) Where removal of a single species can cause major changes to the structure, function, or diversity of a community
 - (c) With high resilience
 - (d) None of the above
- 116. Vicariance is:
 - (a) Taxa belonging to the same group occupying a homologous place in different regions
 - (b) Taxa belonging to different groups occupying a given habitat
 - (c) Taxa belonging to different groups occupying a homologous place in different regions
 - (d) Endemism coupled with diversity
- 117. Size class distribution of individuals in an uneven-aged forest will follow the :
 - (a) Normal distribution

- (b) Inverse 'J' shaped distribution
- (c) Linear pattern
- (d) 'J' shaped distribution
- 118. Gumpa forests of Arunachal Pradesh are examples of :
 - (a) Sacred groves
 - (b) Freshwater swamps *
 - (c) Parkland agroforestry systems
 - (d) Two storied high forest system
- 119. Mangrove forest cover of India currently is:
 - (a) 1,03,150 km²
 - (b) 1,46,530 km²
 - (c) 9,761 km²
 - (d) 4,482 km²
- 120. Forest cover of India as per recent statistics is :
 - (a) 13.7%
 - (b) 33%
 - (c) 10.5%
 - (d) 20.55%

KR – 13B/19 (18) Contd.

Downloaded From: http://iasexamportal.com SPACE FOR ROUGH WORK (19)KR - 13B/19 (750)