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पर्यवेक्षकांच्या

महाराष्ट्र टानर्सवा (मृथ्य) परिद्धा- २०१८ पेपर - ग्रा असंबक्षमांक 2018

A

प्रश्नपुस्तिका क्रमांक

BOOKLET NO.

↑ केंद्राची संकेताक्षरे

्र प्रश्नपुस्तिका-II ENERAL SCIENCE ANI

GENERAL SCIENCE AND NATURE CONSERVATION

एकूण प्रश्न : 100

G12

एकूण गुण : 200

शेवटचा अंक

वेळ : 1 (एक) तास

सूचना

- (1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.
- (2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉल्प्रेनने लिहावा.
- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे **न विसरता नमूद करावा**.
- (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचिवली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपित्रकेवरील सूचनेप्रमाणे तुमच्या उत्तरपित्रकेवर नमूद करावा. अशा प्रकारे उत्तरपित्रकेवर उत्तरक्रमांक नमूद करावाना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नांकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेरे उत्तर खोडता येणार नाही. नमूद केलेरे उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील''.

ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरिवणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या ''परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82'' यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनिधकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा

कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK

100

1.	Whi	ch of the followi	ng forc	e is conser	vative	?				
	(1)	gravitational	(2)	frictional		(3)	viscous	(4) air ———	resistance
2.	Wha	it is the purpose	of heli	ostat in sol	lar furn	ace ?				
	(a)	to direct the so					ptical axis of	the con	centrat	or.
	(b)	to track the pos	sition o	of sun and	make p	proper	r alignment o	of the fu	rnace.	
	(c)	to concentrate	the rad	liations at	the cor	e of t	he furnace.			
	(d)	to reflect the so	olar rac	liations on	to a cu	bical :	reflector.			
	` '	wer Options :								
	(1)	(a) only	(2)	(a) and (l	o) only	(3)	(b) and (d)	only (4	(c)	only
3.	The	coriolis force is		·						
	(a)	not due to any			ion					
	(b)	is non-inertial	• ,							
	(c)	fictitious force								
	(d)	due to the spir	ning n	notion of tl	he earth	1				
	٠,	wer Options :				•				
	(1)	(a) only			(2)	(c) a	nd (d) only			
	(3)	All of the abov	e		(4)		e of the abov	⁄e		
4.		culate the potenti	——— alata	point P du	e to a c	haroe	of 4 × 10 ⁻⁷	——— C locate	d at 9 c	m away. Also
1.	obta	in the work don	e in br	ingi n g a ch	narge o	f 2×1	0^{-9} C from	∞ to the	point	P.
	(1)	$V = 4 \times 10^4 \text{ V},$	$W = 8 \times$	(10 ⁻⁵ J	(2)	V = 3	$36 \times 10^4 \text{ V, V}$	$V = 16 \times$	10−5 J	
	(3)	$V = 5 \times 10^7 \text{ V},$	$W = 3 \times$	∶10 ⁻⁹ J	(4)	V = 5	5×10 ⁷ V, W	$=9\times10$	-9 J	
5.	Wh	ich of the follow	ing sta	tements co	ncernir	ng the	quantum ni	umbers	are cor	rect ?
	(a)	Angular quant	_			_	-			
	, ,	0 1								
	(b)	The principal of	Juantu	m aetermi	nes me	orien	itation and e	nergy of	-	
	(b) (c)	The principal of Magnetic quar	•					0,	-	
	(c)	Magnetic quar	tum n	umber dete	ermines	the s	size of the or	bital.	the or	bital.
	` .	• •	itum ni numbe	umber dete er of an ele	ermines	the s	size of the or	bital.	the or	bital.
	(c) (d)	Magnetic quar Spin quantum	itum ni numbe sen axi	umber dete er of an ele s.	ermines ctron d	the s	size of the or	bital.	the or	bital.
	(c) (d)	Magnetic quar Spin quantum relative to chos ich of the statem	ntum ni numbe sen axi ent giv	umber dete er of an ele s.	ermines ctron d are corr	the seterm	size of the or ines the orie	bital.	the or	bital.
	(c) (d) Whi	Magnetic quar Spin quantum relative to cho	numbe numbe sen axi ent giv	umber dete er of an ele s.	ermines ctron d	eterm ect ? (b) a	size of the or	bital.	the or	bital.
6.	(c) (d) Whi (1) (3)	Magnetic quar Spin quantum relative to cho ich of the statem (a) and (b) onl	ntum no numbe sen axi ent giv y only	umber dete er of an ele s. en above a	ermines ctron d are corr (2) (4)	eterm ect ? (b) a (a) a	size of the or sines the ories and (c) only and (d) only	bital.	f the or	bital. pin of electron
6.	(c) (d) Whi (1) (3)	Magnetic quar Spin quantum relative to chos ich of the statem (a) and (b) onl (a), (b) and (d) volume of oxyge	ntum nonumbesen axisent gives only en (assu	umber deter of an electer of an electer of an electer of above an electer of above an electer of a electer of	ermines ctron d are corr (2) (4) have id	eterm eect ? (b) a (a) a	size of the or sines the ories and (c) only and (d) only required per	bital. ntation of	f the or	bital. pin of electron
6.	(c) (d) Whi (1) (3) The	Magnetic quar Spin quantum relative to chostich of the statem (a) and (b) onl (a), (b) and (d) volume of oxyged	ntum nonumbersen axisent gives only en (assu	umber deter of an electer of an electer of an electer of above an electer of above an electer of a electer of	ermines ctron d are corr (2) (4) have id	eterm eect ? (b) a (a) a	size of the or sines the ories and (c) only and (d) only required per	bital. ntation of	f the or	bital. pin of electron

7.	H_2S	shows follow	ing prope	erties :					
	(a)	H ₂ S is a colo			l smell				
	(b)	It is a poisor							
	(c)	It is lighter	han air						
	(d)	H ₂ S acts as	reducing	agent					
	Ans	wer Options	:						
	(1)	(a) and (b) o	nly		(2)	(a),	(b) and (c) only		
	(3)	(b), (c) and (d) only		(4)	(a),	(b) and (d) only		
8.	Mol alur	ten Na ₃ AlF ₆ minium (at. g.	s subject wt. 27) c	ed to elected	trolysi by th	s und e pas	er appropriate sage of 96500	conditi C of e	ons, the weight of electricity will be
	(1)	9			(2)	27			
	(3)	96500×27			(4)	Non	e of the above		
9.	Сур	sela type of fi	uit is the	distinguis	shing c	haract	er in family		
	(1)	Malvaceae	(2)	Asterace	ae	(3)	Cruciferae	(4)	Meliaceae
10.	Ascı	us of the Fung	gal group	Ascomyc	etes po	ssesse	s typically		Ascospores.
	(1)	08	(2)	10		(3)	07	(4)	06
11.	Who	proposed ph	ylogeneti	c classifica	ntion sy	stem	of plants ?		
	(1)	Hutchinson			(2)	Bent	tham and Hook	er	
	(3)	Engler and	Prantl		(4)	Mah	neshwari 		
12.									
	Alis	omatidae	Connectività		Lilliida	ne			
		From M	Iagnoliida	ae Class Li	liatae				
	The (1)	above graphi John Hutchi		sentation o	of mone (2)	ocots Cha	was proposed b rles E. Bessey	ру	·

(4)

Adolf Engler

A. Cronquist

(3)

(a) Mitochondria (b) Lysosomes (c) Ribosomes (d) Mesosomes Answer Options: (1) (c) and (d) (2) (a) and (b) (3) (b) and (c) (4) (b) and (d) 15. Varanus bengalensis an Indian nonpoisonous large sized lizard belongs to the suborder (1) Lacertilia (2) Ophidia (3) Sauropoda (4) Hone 16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I List - II (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iv) (2) (i) (ii) (iii) (iv) (2) (i) (iii) (iv) (v) (4) (iii) (iv) (v) (4) (iii) (iv) (v) (5) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa	13.	Enta	moeba	histol	ytica	is a _		parasi	te.			
(a) Mitochondria (b) Lysosomes (c) Ribosomes (d) Mesosomes Answer Options: (i) (c) and (d) (2) (a) and (b) (3) (b) and (c) (4) (b) and (d) 15. Varanus bengalensis an Indian nonpoisonous large sized lizard belongs to the suborder (i) Lacertilia (2) Ophidia (3) Sauropoda (4) Hone 16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I List - II (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iv) (2) (i) (ii) (iii) (iv) (3) (ii) (iii) (iv) (v) (4) (iii) (iv) (v) (4) (iii) (iv) (v) (5) (ii) (iii) (iv) (v) (6) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa 19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:		(1)	mon	ogene	etic	(2)	digenetic		(3)	polygenetic	(4)	monomorphic
Answer Options: (1) (c) and (d) (2) (a) and (b) (3) (b) and (c) (4) (b) and (d) 15. Varanus bengalensis an Indian nonpoisonous large sized lizard belongs to the suborder (1) Lacertilia (2) Ophidia (3) Sauropoda (4) Hone 16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I List - II (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iv) (2) (i) (ii) (iii) (iv) (3) (ii) (iii) (iv) (v) (4) (iii) (iv) (v) (i) 17. A combination of many taxonomic units like soil series, phase or types is called: (1) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa 19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:	14.	Whi	ch of	the ce	ll orga	anelles	s are not for	und ir	n bact	erial cell ?		
(1) (c) and (d) (2) (a) and (b) (3) (b) and (c) (4) (b) and (d) 15. Varanus bengalensis an Indian nonpoisonous large sized lizard belongs to the suborder (1) Lacertilia (2) Ophidia (3) Sauropoda (4) Hone 16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I List - II (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iiv) (2) (i) (ii) (iii) (iv) (3) (ii) (iii) (iv) (v) (4) (iii) (iv) (v) (i) 17. A combination of many taxonomic units like soil series, phase or types is called: (1) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa 19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:		` '				(b)	Lysosome	es	(c)	Ribosomes	(d)	Mesosomes
15. Varanus bengalensis an Indian nonpoisonous large sized lizard belongs to the suborder (1) Lacertilia (2) Ophidia (3) Sauropoda (4) Hone 16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I List - II (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iv) (2) (i) (ii) (iii) (iv) (2) (i) (ii) (iii) (iv) (3) (ii) (iii) (iv) (v) (4) (iii) (iv) (v) (i) 17. A combination of many taxonomic units like soil series, phase or types is called: (1) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa 19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:				-		4-5			4-1		>	<i>a</i> , , , , , , , , , , , , , , , , , , ,
(1) Lacertilia (2) Ophidia (3) Sauropoda (4) Hone 16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I List - II (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iv) (2) (i) (ii) (iii) (iv) (3) (ii) (iii) (iv) (v) (4) (iii) (iv) (v) (i) 17. A combination of many taxonomic units like soil series, phase or types is called: (1) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa 19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:		(1) ——–	(c) a	ind (d _.) 	(2) 	(a) and (b	o) 	(3) -	(b) and (c)	(4)	(b) and (d)
16. Match List - I with List - II and select the correct answer by using the codes given below the list: List - I (a) Epitheliochorial (i) Cow (b) Syndesmochorial (ii) Human (c) Hemochorial (iii) Cat (d) Hemoendothelial (iv) Rat (v) Pig Answer Options: (a) (b) (c) (d) (1) (v) (i) (ii) (iiv) (2) (i) (ii) (iii) (iv) (2) (i) (ii) (iii) (iv) (3) (ii) (iii) (iv) (v) (4) (iii) (iv) (v) (4) (iii) (iv) (v) (5) (1) Soil variant (2) Soil series (3) Soil complex (4) Soil association 18. Which of the following organisms are found in larger number during latter stages of decomposition and their main role in soil is to breakdown of more resistant components of plants and animal tissues remaining after initial attack? (1) Bacteria (2) Actinomycetes (3) Fungi (4) Algae and Protozoa 19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:	15.	Vara	anus b	engale	nsis a	an Ind	lian nonpo	isono	us lai	rge sized lizard	belon	gs to the suborder
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19. For amelioration of saline-sodic soils 'Gypsum' is commonly used to replace: (a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:								(2)	Acti	inomycetes		
(a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:		(3)	Fun	gi				(4)	Alg	ae and Protozoa	ì	
(a) Exchangeable ammonium (b) Exchangeable calcium (c) Exchangeable sodium (d) Exchangeable all bases Answer Options:	19.	For	amelio	oration	n of sa	line-s	odic s oils '(m' is	commonly used	to repla	ace :
(c) Exchangeable sodium (d) Exchangeable all bases Answer Options:		(a)	Excl	nangea	able a	mmor	nium					
Answer Options:		(c)	Exch	angea	able s	odium	ı	(d)		_		
(1) (a) and (b) (2) (b) and (d) (3) (c) only (4) (d) only		Ans	wer C	ption	ıs:			. ,		g .		
		(1)	(a) a	nd (b))	(2)	(b) and (d	l)	(3)	(c) only	(4)	(d) only

20.	Wha wat	at is the process of er from the uppe	of rem	oval or to lo	of co wer	onstituer layers ?	nts in	suspension or so	lution	by the percolating
	(1)	Illùviation	(2)	Elu	viati	on	(3)	Humification	(4)	Horizonation
21.	USL	E predicts which	of the	e follo	win	g soil los	ss ?			
	(1)	monthly soil los	ss (2)	wee	kly :	soil loss	(3)	annual soil loss	(4)	none
22.	In s	trip cropping sys	tem, l	ong a	nd r	narrow s	trips	of erosion		
	(1)	• • •				_		erosion registing	_	
	(2)	0 0 1				-		erosion permittin		
	(3)		s are	altern	ated	with st	rips (of erosion permitt	ing cr	ops.
	(4)	All are correct.								
23.		system involve ntations is knowr		ng tre	es a	nd graz	ing u	inderstorey grass	es and	l bushes in forests
	(1)	Taungya cultiv	ation			(2)	Silv	i-Pastoral system		
	(3)	Agro-forestry				(4)	Ho	ti-Pastoral systen	n	
24.	Wha	at are the compo	nents	of Wa	iters	hed Mai	nagei	ment Programme	?	
	(a)	Soil and water	conse	rvatio	n	(b)	Cro	p management		
	(c)	Human resourc	e dev	elopn	nent	(d)	Live	e stock manageme	ent	
	Ans	wer Options :								
	(1)	(a) only				(2)	(a) a	and (b) only		
	(3)	(a), (b) and (c)	only			(4)	(a),	(b), (c) and (d)		
25.		at is the percenta ation ?	ge of	Photo	syn	theticall	y Ac	tive Radiation (P	AR) in	the incident solar
	(1)	100%	(2)	less	thai	n 50%	(3)	up to 1 - 5%	(4)	up to 2 - 10%
26.	The	abiotic componer	its of s	soil ec	osys	stem is/a	are :			
	(a)	Soil atmosphere	e	(b)	Oı	rganic n	natte	•		
	(c)	Soil water		(d)	So	il biota				
	Ans	wer Options :								
	(1)	(a) only				(2)	(a)	and (b) only		
	(3)	(d) only				(4)	(a),	(b) and (c) only		
27.	Whi	ich of the following	ng seq	uence	of I	food cha	in is	correct ?		
	(a)	Grassland	(b)	Sna			(c)	Hawk	(d)	Grasshoppers
	٠,	wer Options :	, /							
	(1)	(a), (d), (b), (c)	(2)	(d),	(b),	(c), (a)	(3)	(c), (b), (d), (a)	(4)	(b), (c), (d), (a)

	Ecos	ystem cor	nprises	of _	a	nd _		<u> </u>				
	(1)	population				(2)		•	y, environn			
	(3)	population	on, env	iro nm	ent	(4)	envi	ronme	nt, ecology			
29.	Mate	ch the follo	wing:	:								
		Column	- I			Col	umn -	II				
		(Fertilize	er Unit	s)		(Lo	cation)					
	(a)	FCIL			(i)	Bha	tinda					
	(b)	NFL			(ii)	Tha	1., :					
	(c)	HFCL			(iii)	Sinc	lri					
	(d)	RCF			(iv)	Dur	gapur					
	Ans	wer Optio	ns:									
		(a) (b)	(c)	(d)								
	(1)	(iv) (ii)	(iii)	(i)								
	(2)	(i) (iii	(iv)	(ii)								
	(3)	(iii) (i)	(iv)	(ii)								
	(4)	(iii) (i)	(ii)	(iv)								
<u> </u>	(1) (3) Whi	concentr	ated o	rganic	manures manures of phosphor	(2) (4) rus fo	cond	entrat	ted bulky of ted inorgar tion?	_		
				(2)	Water		(3)	Air	and Water	(4)	Soil	
J-1.	(1)	Air										
32.			ollowi	ng nut	rients is im	mobil	le in pl	lants ?				
				ng nut (2)	rients is im Phosphor		le in pl	lants ? Zinc		(4)	Boro	on .
	Wh:	ich of the f	m 	(2)		us —–	(3)	Zino	: 	(4)	Boro	on -
32.	Wh:	Potassiu	m following	(2) ng stat	Phosphor tements and lus) micropl	rus d cho	(3) ose the	Zinc	ect option :			
32.	Who (1)	Potassiunsider the Rhipicephasicoplas	m followin nalus (E mosis i	(2) ng stat Soophi n Indi	Phosphor tements and lus) micropl	d cho	(3) ose the	Zinc corre	ect option : transovaria			
32.	Wh: (1) Cor (a) (b)	Potassiunsider the Rhipicephasicoplas	m Followin Italus (E Italus (E	(2) ng stat Soophi n Indi	Phosphor tements and lus) micropl a.	d cho	(3) ose the	Zinc corre	ect option : transovaria			
32.	Wh: (1) Cor (a) (b)	Potassiunsider the Rhipiceph piroplas Rhipiceph swer Optic	following (Elemosis in the lates (Elemosis in the lates (Elemosis :	(2) ng stat Soophi n Indi	Phosphor tements and lus) micropl a.	d choous is	(3) ose the involv	Zince corrected in	ect option : transovaria	n tran	smissi	
32.	Who (1) Cor (a) (b) Ans	Potassiunsider the Rhipicephas Rhipicephas Rhipicephas Wer Optic	following alus (Emosis in the lates (Emosis in the	(2) ng stat Boophi n Indi Boophi	Phosphor tements and lus) micropl a. lus) micropl	d choolins is	(3) ose the involv one ha	Zince corrected in	ect option : transovaria	n tran	smissi	
32.	Wh: (1) Cor (a) (b) Ans (1)	Potassiunsider the Entipicephic Rhipicephis Rhipicephis Wer Option Both the First sta	following (Elemosis in the constant of the con	(2) ng stat Boophi n Indi Boophi nents a	Phosphore tements and lus) microph a. lus) microph are wrong a	d choolus is	(3) ose the involvone had re control is control.	Zince correct	ect option : transovaria	n tran	smissi	
32.	Wh: (1) Cor (a) (b) Ans (1) (2)	Potassiunsider the Rhipicephas Rhipicephas Wer Option Both the First star	following alus (Emosis in the property of the	(2) ng state Boophi n Indi Boophi nents a is wro	Phosphore tements and lus) microph a. lus) microph are wrong a ong but the nt but the se	d choods is is and as second	(3) ose the involvone had is contained is contained is contained is contained is contained is wrong the contained in the contained is wrong the contained in the c	Zince correct correct.	ect option : transovaria c. ory to each	n tran	smissi	on of bovin
32.	Wh: (1) Cor (a) (b) Ans (1) (2) (3) (4)	Potassiunsider the Rhipiceph piroplas Rhipiceph swer Option Both the First star Both the	following alus (Emosis in the statement in s	(2) ng state Boophi n Indi Boophi nents a is wro is righ	Phosphore tements and lus) microph a. lus) microph are wrong a ong but the nt but the se	d choods is is and as second and the	(3) ose the involvone horizontal is contained is contained is contained is except the second contained in the second contained is contained in the second contained contained in the second contained con	Zince correct correct. ong.	ect option : transovaria c. ory to each the correct	n tran	smissi	on of bovin

35.			_ bac	teriun	ente:	rs thr	ough i	njury	site o	of red cotton by	ig and s	tain cotton fiber.
	(1)	Bacil		ssypii				(2)		liobacter gossypi	•	
	(3)	Nem	ataspo	ora go	ssypii			(4)	Cor	ynebacterium go	ssypii	
36.	Mat	ch the	follo	wing	parasi	tes w	ith sus	ceptil	ble wi	ild animals :		
	(a)	Tryp	anoso	oma e	quinu	m		(i)	Dog	g, horse		
	(b)	Tryp	anoso	oma e	vansi			(ii)	Tigo	er, chital		
	(c)	Tryp	anos	oma s	imiae			(iii)	Pig,	camel		
	(d)	Tryp	anos	oma v	ivax			(iv)	Hor	se, camel, cattle	e, sheep	and goat
	Ans	wer C	ption	ıs :							_	•
		(a)	(b)	(c)	(d)							
	(1)	(i)	(ii)	(iii)	(iv)							
	(2)	(ii)	(i)	(iii)	(iv)							
	(3)	(iii)	(iv)	(i)	(ii)							
	(4)	(iv)	(iii)	(ii)	(i)							
37.			ic a	evetor	mic Fi		ide bel	o n air	ng to	Benzimidazoles	group	
57.	$\overline{(1)}$	Δ 203	_ 13 a cystro	-	(2)	_	uconaz	_	(3)	Metalaxyl	(4)	Thiophante
	(1)	AZO)		———	(2)	160			(3)		— (4)	
38.	In w	hich y	ear tl	he i ns	ecticio	le act	of Ind	ia wa	as info	orced througho	ut the co	ountry?
	(1)	1968	,		(2)	197	0		(3)	1971	(4)	1914
3 9.	Find	out tl	ne inc	orrce	pair	from	the fol	lowir	ngs :			
	(1)			razole	•	_	Fipro		Ü			
	(2)		liazir			_	Indo		b			
	(3)	Aver	mecti	ins		_	Abaı	necti	n			
	(4)			razole	9	-	Acita	mip	rid			
40.	Pest	icide r	resen	ıt in a	form	 ılatio	n is de	scribe	ed by	the common na	ame :	
20.	(1)	•	n lev					(2)	•	on limits		
	(3)			gredie	nt			(4)		uvant		
 41.		or bea	n is a		ce of			——— poiso	nous	substance.		_
T 11	(1)	curci		Jour	(2)	abri		Poloc	(3)	urushiol	(4)	ricin
	(x) 										(1)	
42.			-	•	to be	the 1	most co			asive in Asia <mark>n</mark>	elephan	t habitat.
	(1)		mia h					(2)		tana camara		
	(3)	Mika	nia m	iicrant	ha			(4)	Age	ratum conyzoide	28	
43.	On	which	crop	Oroba	nche s	pp. 0	f weed	is pa	arasite	e ?		

(1) Filariosis (2) Trypanosomiasis (3) Glaucoma (4) Encephalitis 45. There are several types of plant and fungi bio-monitors including: (a) Lichens (b) Tree rings (c) Bark pockets (d) Depletion of plants Answer Options: (1) (a) and (b) only (2) (b) and (c) only (3) (a), (b) and (c) only (4) only (d) 46. Which of the following are the liquid pollutants? (a) Micro dust particles (b) Mercury (c) Sewage (d) Oil spill in sea Answer Options: (1) (a) and (b) only (2) (b) and (c) only (3) (c) and (d) only (2) (b) and (c) only (3) (c) and (d) only (2) (b) and (d) only 47. The sequence of steps involved in waste management hierarchy is: (a) Treatment (b) Pollution prevention (c) Disposal (d) Reuse/Recycle Answer Options: (1) (c), (b), (a), (d) (2) (b), (d), (a), (c) (3) (a), (c), (d), (b) (4) (d), (a), (c), (b) 48. Match the category of pollutant with the example. (a) Organic chemicals (i) Uranium (b) Organometallic chemicals (ii) Pollen (c) Radiological (iii) Pesticides (d) Biological (iv) Tetraethyl lead Answer Options: (a) (b) (c) (d) (1) (ii) (iv) (iii) (ii) (2) (iv) (ii) (iii) (ii) (3) (iii) (iv) (iii) (iii) (4) (i) (iii) (iv) (iii) (4) (i) (iii) (iv) (iii) (4) (i) (iii) (iv) (iii)	44.		k from wing					on Mex	cican	popp	ру	(Argemone me	xicana	ı) weed	can ca	ause
(3) Glaucoma (4) Encephalitis 45. There are several types of plant and fungi bio-monitors including: (a) Lichens (b) Tree rings (c) Bark pockets (d) Depletion of plants Answer Options: (1) (a) and (b) only (2) (b) and (c) only (3) (a), (b) and (c) only (4) only (d) 46. Which of the following are the liquid pollutants? (a) Micro dust particles (b) Mercury (c) Sewage (d) Oil spill in sea Answer Options: (1) (a) and (b) only (2) (b) and (c) only (3) (c) and (d) only (4) (b), (c) and (d) only 47. The sequence of steps involved in waste management hierarchy is: (a) Treatment (b) Pollution prevention (c) Disposal (d) Reuse/Recycle Answer Options: (1) (c), (b), (a), (d) (2) (b), (d), (a), (c) (3) (a), (c), (d), (b) (4) (d), (a), (c), (b) 48. Match the category of pollutant with the example. (a) Organic chemicals (i) Uranium (b) Organometallic chemicals (ii) Pollen (c) Radiological (iii) Pesticides (d) Biological (iv) Tetraethyl lead Answer Options: (a) (b) (c) (d) (1) (ii) (i) (iv) (iii) (2) (iv) (ii) (iii) (ii) (3) (iii) (iv) (i) (iii)			_						(2)	Tryp	par	nosomiasis				
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(c) Radiological (iii) Pesticides (d) Biological (iv) Tetraethyl lead Answer Options: (a) (b) (c) (d) (1) (ii) (i) (iv) (iii) (2) (iv) (ii) (iii) (i) (3) (iii) (iv) (i) (ii)		(a)	Orga	anic c	hemic	als			(i)	Ura	niı	um				
(d) Biological (iv) Tetraethyl lead Answer Options: (a) (b) (c) (d) (1) (ii) (i) (iv) (iii) (2) (iv) (ii) (iii) (i) (3) (iii) (iv) (i) (ii)		(b)	Orga	anom	etallic	chem	icals		(ii)	Poll	en	ı				
Answer Options: (a) (b) (c) (d) (1) (ii) (i) (iv) (iii) (2) (iv) (ii) (iii) (i) (3) (iii) (iv) (i) (ii)		(c)	Rad	iologi	cal				(iii)	Pest	tici	ides				
(a) (b) (c) (d) (1) (ii) (i) (iv) (iii) (2) (iv) (ii) (iii) (i) (3) (iii) (iv) (i) (ii)		(d)	Biol	ogical					(iv)	Tetr	ae	thyl lead				
(1) (ii) (i) (iv) (iii) (2) (iv) (ii) (iii) (i) (3) (iii) (iv) (i) (ii)		Ans	wer (Option	ıs:											
(2) (iv) (ii) (iii) (i) (3) (iii) (iv) (i) (ii)			(a)	(b)	(c)	(d)										
(3) (iii) (iv) (i) (ii)		(1)	(ii)	(i)	(iv)	(iii)										
		(2)	(iv)	(ii)	(iii)	(i)										
(4) (i) (iii) (ii) (iv)		(3)	(iii)	(iv)	(i)	(ii)										
		(4)	(i)	(iii)	(ii)	(iv)										

49.	The	Haryana Pollution Control Board's	nas s	sealed 12 stone-crushing units in the district du
	(a)	Did not have water sprinklers		
	(b)	Did not have microbial-leaching	techr	nique
	(c)	Did not have fabric filters	ccin	que
	(d)	Did not have facility of incineration	on	
		ich of the above mentioned stateme		is/are correct ?
	(1)	(b) only	(2)	(a) and (c) only
	(3)	(b), (c) and (d) only	(4)	(a) only
50.	Whi	ich of the following is responsible fo	or aci	rid mine drainage ?
	(1)	Accidental oil spills	(2)	Epilimnion
	(3)	Pyrite bearing rock	(4)	Smelting
<u></u> 51.	Whi	ich is correct sentence ?		
	(a)	Gypsum is a non-metallic mineral	l	(b) Coal is a metallic mineral
	(c)	Manganese ore is a metallic mine	ral	(d) Zinc is a fuel mineral
	Ans	wer Options :		
	(1)	(b) and (c) are correct	(2)	(a) and (c) are correct
	(3)	(b), (c) and (d) are correct	(4)	(a) and (d) are correct
52.	Obs	erve the following statements :		
	(a)	Land slides are occurred in Weste	ern G	Ghat due to intensive coal mining.
	(b)	Land slides may be observed throu	ighoi	ut the Himalaya due to mineral and stone mining
	(c)	The eastern slope of Nainital is size	nking	g because of quarrying.
	Ans	wer Options :		•
	(1)	Only statement (a) is correct	(2)	Only statement (b) is correct
	(3)	Statements (a) and (b) are correct	(4)	Statements (b) and (c) are correct
53.	The	principle greenhouse gas is :		
	(1)	Carbondioxide (CO ₂)	(2)	Methane (CH ₄) and Ozone (O ₃)
	(3)	Nitrous oxide (N ₂ O)	(4)	Water vapour
54.	Clir	ograph that highlights the importar	nce o	of climate on distribution of biomes is a plot of
	(1)	Mean temperature and altitude		
	(2)	Precipitation and altitude		
	(3)	Precipitation and mean temperat	ure	
	(4)	Mean sunshine hours and minim	um t	temperature

The main cause of the increase in the amount of Carbondioxide and other greenhouse gases

55.

	in e	arth's	atmos	${f phere}$	over	past 1	150 ye	ars is	:			
	(1)						_	_	_	mary producti		
	(2)	The	burni	ng of	larger	amo	unt of	fossil	fuel a	and deforestati	on.	
	(3)	An i	increa	se in	the an	nount	of inf	rared	radia	tion absorbed	by the at	mosphere.
	(4)	Add	litiona	l resp	iratio	n by 1	apidly	grov	ving l	numan popula	tion.	
5 6.	Whi	ich of	the fo	llowi	ng sta	temer	its are	corre	ct per	taining to Gre	enhouse	effect ?
	(a)	Nitr	ogen	and C	Oxygei	n are	transp	arent	to ele	ectromagnetic	radiation	
	(b)	Carl	oon di	oxide	is bes	st kno	wn G	reenho	ouse g	gas.		
	(c)						radiat lets a			bed by stratosp	heric ozo	ne, carbon dioxide,
	(d)						ned by y day.		sun or	nly during day	time but	its heat is radiated
	Ans		ption	_			, ,					•
	(1)		and (b		(2)	(b) a	and (d)	(3)	(b) and (c)	(4)	All of the above
57.	Mat	ch the	pairs	of w	ild an	imals	with t	:heir a	ge of	maturity.		· .
	(a)	Yak	_	λ	ì	(i)	1 ye	ar				
	(b)	Tige	er			(ii)	2 ye	ars				
	(c)	Swa	mp d		(iii)	3-4	years					
	(d)	Wile	d pig			(iv)	5 ye	ars				
	Ans	wer o	ption	s:			•					
		(a)	(b)	(c)	(d)							
	(1)	(ii)	(iv)	(iii)	(i)							
	(2)	(iv)	(iii)	(ii)	(i)							
	(3)	(iii)	(ii)	(iv)	(i)							
	(4)	(i)	(ii)	(iii)	(iv)							
58.	Mat	ch the	follo	wing t	ype o.	f encl	osures	with	the sp	ecies of wild a	nimals to	furnish the enrich
	envi	ronm	ent ur	nder c	aptivi	ty.			•			
	(a)	Clin	nbing	or arb	oreal		(i)	Prin	ates :	and bear		
	(b)	Terr	estria	l			(ii)	Deer	and	Antelope		1
	(c)	Buri	rowing	g or d	igging	7				and burrowir	ig snakes	•
	(d)		atic o							s and Rhinos	O	
		freq	uently	7	Ŭ		` ,					
	Ans	wer o	ption	s:								
		(a)	(b)	(c)	(d)							
	(1)	(i)	(ii)	(iii)	(iv)							
	(2)	(ii)	(iii)	(iv)	(i)							
	(3)	(iii)	(iv)	(i)	(ii)							
	(4)	(iv)	(i)	(ii)	(iii)							
	\-/	(= -)	\-/		(-~/							
		•										

59.	Whi	ich of the follow	ving pai	rs are corr	ectly n	natche	ed ?		
		Wild animal	0.		_		ildlife		
				(Pro	otectio	n) Ac	et, 1972		
	(a)	Golden Langu	ır		I	,			
	(b)	Lion-tailed M	acaque		II				
	(c)	Bonnet Macad	que		II				
	(d)	Hoolock	_		III				
	Ans	wer options :							
	(1)	(a), (b), (c), (d) correc	t	(2)	(a) a	and (b) correct		
	(3)	(a) and (c) co	rrect		(4)	(b) a	and (c) correct		
60.	Con	sider the follow	ing stat	ements :					
	(a)	Asian tigers a	re tolera	ant to cold	climat	e but	sensitive to tro	pical ter	nperature.
	(b)						sleeping and h	•	-
	Ans	wer options :		, ,	,	•	1 0		O
	(1)	Statement (b)	is corre	ct, (a) is in	correct	t.			
	(2)	Statement (a)		. ,					
	(3)	Both the state		` '					
	(4)	Both the state	ments a	re incorrec	ct.				
61.	Bree	ed of cattle which	h is sui	table for da	airy du	e to it	s following fea	tures :	
	(a)	Small size			•		Ü		
	(b)	Adaptability t	o varyi	ng climatic	condi	tions			
	(c)	Resistance cap	-						
	• •	wer options :	,						
	(1)	Gir	(2)	Deoni		(3)	Red Sindhi	(4)	Tharparkar
62.	Luce	erne is not fed a	d lib to	cattle due t	o poss	ibility	of tympanitis.	The oth	er best leguminous
		ler for feeding o			-	-			-
	(a)	Berseem			(b)	Cov	vpea		
	(c)	Guar			(d)	Non	e of above		
		wer options :							
	(1)	(a) only	(2)	(b) only		(3)	(b) and (c)	(4)	(d) only
63.		calculating cost	of pro	duction of	milk f	lk from dairy animal, the following information			ving information is
	(a)	Milk yield of	animal		(b)	Cos	t of feed and fo	dder	
	(c)	Expenses on I			(d)	Recu	arring expenses	8	
	٠,,	wer options :							
	(1)	(a) only			(2)	(a) a	and (b) only		
	(3)	(c) and (d) on	ly		(4)	(a),	(b), (c) and (d)		
	` ′	, , , , , , ,	•						

64.	In o	rder to achieve the p	rojected grov	vth of	5% in	dairy pro	ductior	ι:	
	(a)	Need to reduce lov							
	(b)	Use of genetically s	•		-		-		
	(c)	Use cloning with st	tem cell for d	evelop	ing co	mplete er	nbryos.		
	(d)	Cross breeding							
		wer options :			(5)				
	(1)	(a) and (c) (2	(a), (b) au	nd (c)	(3)	(b) and	(d)	(4)	All of the above
65.	In w	hich region highest	percentage of	f forest	area	is found?	,		
	(1)	Himalayan region	_	(2)	The	Great Pli	nes		
	(3)	Peninsular plateau	and hills	(4)	Wes	tern ghat	s and co	oastal	hills
66.	The	chemical L. Dopa us	ed in Parkins	on's d	isease	is obtaine	ed from	the se	eed of :
	(1)	Berberis aristata		(2)		una prurie			¥
	(3)	Moringa oleifera		(4)		pha curea			
67.	Don	udod wastalands are	haina waad fa	- hiah	donai				
07.		uded wastelands are vide fuel wood and							
		ined.	charcoar ha	ving n	ign ce	normic va	iue. I	ante	the type of energy
	(1)	Dendrothermal en	ergy	(2)	The	rmal ener	gý		
	(3)	Hydro energy		(4)		leas energ	0.		
	Mot	ia and Sofia are the	varieties of w	hich p	lant s	necies ?			
	(1)	Andropogon nardus		(2)		ibopogon 1	nartini		
	(3)	Cymbopogon rotuna		(4)	_	iamomum		ra	
69.		following trees are p	-	•	_	en forest	:		
	(1)	Santalum, Artocarp	•		:S				
	(2)	Myristica, Boswellia							·.
	(3) (4)	Dalbergia, Terminal Langerstroemia, Gre							
70.		wth in plants is main		by fo		•			į
	(a)	Genetic Constitution	on	(b)	Rep	roductive	Biology	7	•
	(c)	Site Quality		(d)	Den	sity			
		wer options :							
	(1)	Only (d)		(2)	Onl	y (a) and	(d)		
	(3)	Only (b) and (c)		(4)	(a),	(c) and (d)		
71.	Whi	ch hormone is synthe	sized in leave	es unde	er pho	toinductiv	e cvcle	which	induces flowering
	in p	lants ?			- F-10		, ,	*********	- MINGELLIOWEILIE
	(1)	Phytochrome (2) Florigen		(3)	ABA	(4)	Nor	e of the above

72.	Nar of p	ne the lants.	law w	vhich	explai	ns the effec	t of va	rious	abiotic fac	ctors or	n grow	th and development
	(1)	Lieb	igs La	aw of	Minin	um	(2)	Me	ndals Law	V		
	(3)	Shel	fords	Law	of Tol	erance	(4)	Pri	nciples of	Site La	ıw	
73.	Mat	ch the	follo	wing	:			"				
		San	ctuary	//par	k			Pla	ce			
	(a)	Sanj	ay Ga	ndhi	Natio	nal Park	(i)	Am	ıravati			
	(b)	And	lhari				(ii)	Cha	andrapur			
	(c)	Nav	egaor	ι			(iii)	Gor	ndia			
	(d)	Gug	amal				(iv)	Bor	ivali (Mur	nbai)		
	Ans	wer o	ption	s:								
		(a)	(b)	(c)	(d)							
	(1)	(iv)	(ii)	(iii)	(i)							
	(2)	(ii)	(iv)	(iii)	(i)							
	(3)	(iv)	(ii)	(i)	(iii)							
	(4)	(iii)	(ii)	(i)	(iv)							
 75.		Betla da De	Nati	onal I	Park	al Park was includ	(2) (4) ed in t	Dur	thigam Na ndum Na t of World	tional	Park	es during 1991 is in
	(1)	state : Kera	10				(2)	T 144	arakhand			
	(3)			l Prac	lesh		(2) (4)	Ass				
76.	Keib	oul Lar Assa	s	Nation tate.	nal Pa	rk is situate Meghalay		he So (3)	outh-easter Manipu		er of the	he Loghtak Lake in Mizoram
77.	Sociand	al fore	estry (an be	e cons	idered unc	der thr	ee br	oad heads	s, viz :		
	(1)	Agro	ofores	try, R	ural fo	orestry, Url	ban for	restry	•			
	(2)	0		-		forestry, Ae		•				
	(3)	0		•		orestry, Co			•			
	(4)			•		etic forestry			•	y		

78. Which of the following statement of Joint Forest Management (JFM) is correct?

	(1)	A model of l			t in w	hich t	he local comm	nunities a	are involved in the
	(2)		Forest M	lanagement		hich t	he local comm	nunities a	are involved in the
	(3)	A model of l silviculture a			t in w	hich t	he local com	nunities a	are involved in the
	(4)	A model of I planning of t		-			he local comr	nunities a	are involved in the
79.	way		ifically	sound, eco	logica	lly de	esirable, pract		ps and animal in a asible and socially
	(1)	Nair (1979)			(2)	Ben	e et.al. (1977)		
	(3)	King and Ch	andler ((1978)	(4)	You	ng (1989)		
80.	All	agroforestry sy	stems po	osses theore	etically	the f	ollowing three	attribute	
	(a)	Productivity,	Sustain	ability and	Adop	tabilit	y		
	(b)	Productivity,	Popula	rity and Su	stainal	bility			
	(c)	Productivity,	Adopta	bility and I	Marke	tabilit	y		
	Ans	wer options :	_	•		,			
	(1)	(a) only	(2)	(b) only		(3)	(c) only	(4)	(a), (b) and (c)
81.	The	provision of W	/ildlife F	Protection A	ct 197	'2 is :			
	(a)	Prohibition o	f huntin	g of birds a	and an	imals.			
	(b)	The provision	n of pres	servation of	wildl	ife and	d environmen	t.	
	(c)	The protection							
	Ans	wer options :				-			
	(1)	(a) only	(2)	(b) only		(3)	(c) only	(4)	All of the above
82.	As p	per the Indian l	Forest A	ct - 1927 th	e acts	prohi	bited in Reser	ved Fores	ts are :
	(a)	Tresspasses o				-			
	(b)	Fell, gridles, l	ops, bu	rns any tres	s or de	barie	s.		
	(c)						cts or remove	s any fore	est produce.
	Ans	wer options :						,	F
	(1)	(b) and (c) on	Лy		(2)	(a) a	ind (b) only		
	(3)	(c) and (a) on			(4)	` ,	(b) and (c)		

83.	The	e follo	wing a	are so	me of	the objecti	ve of s	ocial f	orestry. Wh	ich of thes	e is/are correct	?
	(a)	To:	meet t ducts.	the ne	ed of	fuel wood,	, small	timbe	er, bamboo, f	odder and	other minor fo	ores
	(b) To provide gainful employment to rural people.											
	(c)					se industrie		F	I			
	(d)					soil and wa		nserva	tion.			
	• •	swer (-									
	(1)		•	and (c)		(2)	Onl	y (b) and (c)			
	(3)			(b) an	•		(4)	Onl				
84.	Mat	tch the	e follo	wing.				_				
			umn l	-				Col	ımn II			
					oecies	project)			r of launchi	ng)		
	(a)		ect Ti			rajesi	(i)	1987		6/		
	(b)	,	codile	_			(ii)	1973				
	(c)		nocero				(iii)	1988				
	(d)		w-leo				(iv)	1975				
	` '	wer o		•			(21)	1,,,,		,		
		(a)	(b)	(c)	(d)							
	(1)	(ii)	(iv)	(i)	(iii)		,					
	(2)	(ii)	(iv)	(iii)	(i)							
	(3)	(iv)	(ii)	(iii)	(i)							
	(4)	(i)	(iii)	(ii)	(iv)							
	77. 1	. 137		F. 1		1.0.1.11						
85.				Educ			c and		ral Organiza			
	(1)	1944	1 ———		(2)	1935		(3) ———	1955	(4)	1945	
86.		ording level o	_	ologic	al Di	versity Act,	, Peopl	e's Bi	odiversity Re	egisters are	e to be prepared	d at
				liadiv.	oroita	Authoritz						
	(a) National Biodiversity Authority(b) State Biodiversity Board											
	(b)				•		nittoo					
	(c) Biodiversity Management Committee Answer options:											
			-		(2)	(a) and (b	٠,	(2)	Only (b)	(4)	Only (a)	
	(1)	(a),	(b) an	u (c)	(2)	(a) and (b	?) 	(3)	Only (b)	(4)	Only (c)	
87.					_			•	ies survival e agement, and		ntal law, protec	rted
	(1)	uni UNI		a CCOI		WWF	oy stell	(3)	WNO	(4)	IUCN	
	(1)	UNI	-1		(2)	* * * * 1.		(3)	HINO	(4)	10014	
 कच्च				/SPA		OR ROUG	H WO					

88.	Nati	ional l	Resear	ch Ce	nter f	or Ag	roforestry	establi	ished in the yea	r 1988 i	s located at :				
	(1)	Ran	chi		(2)	Jhan	ısi	(3)	Dehradun	(4)	Peechi				
89.			maps al asp		_	ay ph	ysical, so	cial, p	olitical, cultura	l, econo	omic, sociological				
	(1)	Reg	ion on	ıly	(2)	State	e only	(3)	Nation only	(4)	(1), (2) and (3)				
90.							for the sca al length l		hotograph takei	n at 10,0	00 feet above mear				
	(1)	$\frac{0.0}{10,0}$	5 000 =	1 : 500	00		(2)	$\frac{0}{10}$	$\frac{.5}{000}$ = 1 : 10,000						
	(3)	$\frac{0.0}{10,0}$	$\frac{5}{000} =$	1:15	,000,		(4)	$\frac{0}{10}$	$\frac{.5}{000}$ = 1 : 20,000						
91.	CAI	RTOS	AT 1 v	was la	unche	ed on	which of	the foll	owing date ?						
	(1)	5 th J	une 2	:0 05			(2)	5 th	5th May 2005						
	(3)	5 th]	anuar	ry 200)5		(4)	5 th	December 2005						
92.	Mat	ch the	digit	al teri	rain m	odels	data sour	ce with	the capture m	ethod.	,				
			a Sou				Capture		_						
	(a)	Map	s			(i)	Stereo plotter								
	(b)	Aeri	al ph	otogra	aphs	(ii)	Direct downloading from field surveying equipment								
	(c) Satellite imagery (iii)					(iii)		Digitizing and Scanning							
	(d)	Gro	und si	urvey	-	(iv)	Stereo a		0						
	Answer options:														
		(a)	(b)	(c)	(d)										
	(1)	(i)	(iv)	(ii)	(iii)										
	(2)	(ii)	(iii)	(iv)	(i)										
	(3)	(iii)	(i)	(iv)	(ii)										
	(4)	(iv)	(i)	(ii)	(iii)										
93.	The	basic	reasoi	n for e	extinct	ion of	wildlife a	re as f	ollows :						
	(a)	Dest	ructio	n of t	heir r	natural	l habitat	(b)	Overgrazing l	by dome	estic animals				
	(c)	Poac	hing	for m	eat			(d)	Excessive bree	-					
	Ans	wer o	ptions	s:				` '							
	(1)	(a), (b) and	d (c)			(2)	(a),	(b), (c) and (d)						
	(3)		nd (d				(4)	, ,	(c) and (d)						

94.	In biosphere reserve, multiple land use is permitted by designating various zones, match the following:													
	(a)	_	e zone	9		(i)	Human activity is allowed but ecology is not permitted to be disturbed							
	(b) Buffer zone								vity is allowed					
	(c)			tion z	one	(ii) (iii)	Limited human activity is permitted							
	(d)		_	n zor		(iv)			for restoration to		natural form			
	' '	wer o				` ,	, ,							
		(a)	(b)	(c)	(d)									
	(1)	(iii)	(i)	(iv)	(ii)	,	1.							
	(2)	(ii)	(iii)	(i) '	(iv))	71°.							
	(3)	(ii)	(iii)	(iv)	(i)									
	(4)	(iii)	(ii)	(i)	(iv)									
95.	Whi	ch of	the fo	llowir	ng stat	temen	ts is/are	correct	?					
	(a)	Biod	liversi	ty cov	ers va	ariety	of flora a	nd faur	a their ecological	and g	genetic variability.			
	(b)			-		-			U	`	,			
	(c)													
	(d) Richness of the biodiversity of India is largely due to its flora.													
	Answer options :													
	(1)	(a) c	_	- •	(2)	(a) a	nd (b)	(3)	(a), (b) and (c)	(4)	All are correct			
96.	The	major	cause	es of b	iodive	ersity	loss are :		······································					
	(a)	,		estruc		•	(b)) Ove	er exploitation					
	(c)		ution				(d)		cies introduction					
	` '	wer (ption	ıs :										
	(1)		nd (b)				(2)	(a),	(b) and (d)					
	(3)	. ,	nd (d				(4)		(b), (c) and (d)					
97.	Match the term for aneuploid individual's chromosome number:													
		Terr	n				Chromosome number							
	(a)	Tetr	asomi	C	•	(i)	$2n \pm 1$							
	(b)	Mor	osom	ic		(ii)	2n - 2							
	(c)	(c) Nullisomic				(iii)	2n + 2							
	(d)					(iv)	(iv) $2n-1$							
•	Ans	wer o	ption	s:		, ,								
		(a)	(b)	(c)	(d)									
	(1)	(iii)	(iv)	(ii)	(i)									
	(2)	(ii)	(i)	(iv)	(iii)									
	(3)	(iv)	(ii)	(i)	(iii)									
	(4)	(ii)	(iii)	(iv)	(i)									

98.	of living organisms within the limits of germplasm of any crop plant which is referred as:													
	(a)	- ·		Gene-ocean	-	GP - 3		Gene pool (GP-4)						
	Answer Options:													
	(1)	(a) only	(2)	(c) only	(3)	(b) and (d) only	(4)	(a) and (d) only						
99.	Which of the following culture(s) produce(s) haploids ?													
	(a)	Anther culture	(b)	Pollen culture	(c)	Ovule culture	(d)	Meristem culture						
	Cho	ose correct option	ı:											
	(1)	(a) and (b) only		(2)	(b) a	and (c) only								
	(3)	(a), (b) and (c) o	only	(4)	(b), (c) and (d) only									
100.	Radi	ioactive ³² p labelle	ed nuc	cleotides are mos	t com	nonly used to dete	ect the	e virus DNA which						
	can	then be identified	by w	hich technique?)									
	(a)	ELISA		(b)	Serc	ological test								
•	(c)	Autoradiograph	ıy	(d)·	Ant	Antibody detection technology								
	Ans	wer Options :												
	(1)	(a), (b) and (c) o	orrect	(2)	(b),	(c) and (d) correct	t							
	(3)	Only (c) correct		(4)	Onl	y (a) correct								

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कच्या कामासाठी जागा/SPACE FOR ROUGH WORK

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या ''परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम–82'' यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षाकक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

नमना	บงส
777.11	ויאוכ

Pick out the correct word to fill in the blank:

Q.No. 201. I congratulate you ______ your grand success.

(1) for

(2) at

(3) on

(4) about

ह्या प्रश्नाचे योग्य उत्तर ''(3) on'' असे आहे. त्यामुळे या प्रश्नाचे उत्तर ''(3)'' होईल. यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक ''(3)'' हे वर्तुळ पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. (1) (2) (4)

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK