बाजपतित तोतिक बनेका 4/02/ पर्वाक्षा - २०२२

प्रश्नपुस्तिका क्रमांक BOOKLET No.

2022

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GENERAL SCIENCE AND **NATURE CONSERVATION**

वेळ: 1 (एक) तास

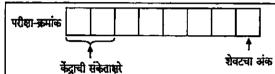
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सूचना

(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 बॉलपेनने लिहावा.



- वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमुद करावा.
- 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 उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरफ्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- 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 केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही. एकापेक्षा जास्त उत्तरे नमूद केल्यास ते उत्तर चुकीचे धरले जाईल व त्या चुकीच्या उत्तराचे गुण वजा केले जातील.
- प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरानाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद

करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चुकीच्या उत्तरांसाठी 25% किंवा 1/4 गुण वजा/कमी करण्यात येतील".

ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी व्यापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरत्दीनुसार तसेच प्रचलित कायद्याच्या तरत्दीनुसार 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 प्रश्नपृस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरूद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

सचना प्रश्नपुरित्तकेच्या

उधक् यीज W

कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK

Α

(1) increasing (2) decreasing (3) constant (4) All of the above 2. Which one of the following is not a gaseous biogeochemical cycle in an ecosyst (1) Sulphur cycle (2) Nitrogen cycle (3) Phosphorus cycle (4) Carbon cycle 3. Which is a rich manure of major and minor plant nutrients? (1) FYM (2) Vermicompost (3) Rhizobium (4) Biofertilizer 4. Which of the following fertilizers contains Nitrogen in amide form? (1) Urea (2) Sodium Nitrate (3) Ammonium Sulphate (4) Ammonium Nitrate 5. Ribbing of leaflets or flaccidity is a typical character of disease. (1) Root Wilt of Coconut (2) Black Spot of Rose (3) Oily Spot of Pomegranate (4) Vascular Wilts 6. Milk fever in cattle is caused due to: (1) Inadequate proteins in fodder (2) Decrease in phosphorus in the field (3) High fever (4) Decrease in the level of calcium in tissue fluid 7. The toxicant, which in its gaseous state penetrates insect through the taystem and kills the pest species is said to be a: (1) Contact poison (2) Fumigant	ch trophic										
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(2) Fumigant	tracheal										
•											
(3) Stomach poison											
(4) None of the above											

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8.	Pes	ticides of group act as nematicides.	
	(1)	Carbamate	
	(2)	Isothiocyanate-	
	(3)	Organophosphate	
	(4)	All of the above	
9.	Gela	atinous Seed Coat is present in	
	(1)	Loranthus	
	(2)	Cuscuta	C
	(3)	Striga	_
	(4)	Orobanche	
10.	Ву	which organ does Cyperus rotundus propogate vegetatively?	
	(1)	Runners	
	(2)	Suckers	
	(3)	Tubers	
	_(4)	Offsets	
11.	Wh	ich of the following statements is/are correct about eutrophication?	
	(a)	An increase in nutrient levels	
	(b)	An increase in biological productivity	
	(c)	Decrease in nutrient levels and increase in biological productivity	
	(d)	Decrease in biological productivity and increase in nutrient levels	
	An	swer options:	
	(1)	Only (c) and (d)	
	(2)	Only (a)	
	(3)	Only(b)	
	(4)	Only (a) and (b)	
कच्च्य	ा कामा	साठी जागा / SPACE FOR ROUGH WORK	

United Nations Framework Convention on Climate Change (UNFCCC)

World Meteorological Organization (WMO) and the United Nations

Environmental Programme (UNEP)

(3)

(4)

Α

17.		Among the following, which one is not the characteristic feature of the order Proboscidea?										
	(1)			the feet	ore c	mara	d with soft	and fatty cushion white elastic fibres.				
	(2)			e the ra				and ranky cusinon winter crasme notes.				
	(3)						no gall blad	lder.				
	(4)											
18.	Mat	ch the	pairs o	f anima	d orde	er wit	h their mov	ring habits :				
	(a)	Order	Chiro	ptera		(i)	Burrows, digs and also climbs					
	(b)	o) Order Dermoptera					Moves fast, swings from tree to tree					
	(c)	Order	Prima	tes		(iii)	Are arbor	eal creatures and efficient gliders				
	(d)	Order	Pholid	lota		(iv)	Are mam	mals capable of sustained flight				
	•	Answer options:						•				
		(a)	(b)	(c)	(d)							
	(1)	(i)	(ii)	(iii)	(iv)							
	(2)	(ii)	(iii)	(iv)	(i)							
	(3)	(iii)	(ii)	(i)	(iv)							
	(4)	(iv)	(iii)	(ii)	(i)							
19.		The cattle breed found in the States of Gujarat and Rajasthan which has a peculiar gait known as "Sawai Chal" is:										
	(1)	Kanl			1		(2)	Gir				
	(3)	Rath	•				(4)	Tharparkar				
20.		Which of the following is the most suitable crop for silage making?										
	Whi	ich of t	he follo	wing is	the n	ost s	uitable cro	o for silage making ?				
20.	Whi (1)	ich of t Maiz		wing is	the n	ost s	uitable croj (2)	o for silage making ? Cowpea				
20.			e	wing is	the n	ost s	_					
	(1)	Maiz Bars	e im				(2)	Cowpea Lucerne				
	(1)	Maiz Bars	e im pål tim				(2) (4)	Cowpea Lucerne				
20.	(1) (3) The	Maiz Bars princi Walr	e im pål tim	ber-yie			(2) (4) s of India in	Cowpea Lucerne iclude:				
21.	(1) (3) The (1)	Maiz Bars princi Walr Whit	e im pal tim ut e willov	ber-yie w	lding	plant	(2) (4) s of India in (2) (4)	Cowpea Lucerne iclude: Deodar				
21.	(1) (3) The (1)	Maiz Bars princi Walr Whit	e im pal tim ut e willov	ber-yie w Cathart	lding	plant	(2) (4) s of India in (2) (4)	Cowpea Lucerne iclude: Deodar All of the above				
21.	(1) (3) The (1) (3)	Maiz Bars princi Walr Whit Digit	e im pal tim eut e willov eing a (alis pur hona sp	ber-yie w Cathart	lding	plant	(2) (4) s of India in (2) (4)	Cowpea Lucerne iclude: Deodar All of the above				
	(1) (3) The (1) (3)	Maiz Bars princi Walr Whit Digit Cinci	pal time tut e willow alis put hona sp	ber-yie w Cathart	lding	plant	(2) (4) s of India in (2) (4)	Cowpea Lucerne iclude: Deodar All of the above				

23.	The deciduous tree with bright pink to light lavender colour flowers, known a in Marathi is recognized as the State Flower of Maharashtra.									
	(1)	Ashoka		, 10008	(2)	Tamhan				
	(3)	Kamala			(4)	Chandair	ni Gonda			
24.		tree, comm	only	also called I	ndian ebo	ny, the lea	ves of which	ch are used i	n the	
	mar	ufacture of beed	is (bi	dis), the tra	ditional c	igarette of	India.			
	(1)	Arjuna	(2)	Tendu	(3)	Babul	(4)	Khair		
25.	The	botanical name	of tin	nber plant, l	Indian ros	sewood is _	·			
	(1)	Pinus roxburgh	iii Sa	r	(2)	Morus all	ba Linn			
	(3)	Dalbergia latife	olia F	Coxb	(4)	Cedrus de	eodara Lou	ıd		
26.	The term used to refer to the seasonal changes in the development of foliage flowering, fruiting, etc. in trees in response to climatic factors is									
	(1)		(2)			Ecology	(4)	Forestry		
		•								
27.	The type	Dipterocarpus, I	Kaye	a and Mesu	a species	are the co	mponents	of f	orest	
	(1)	 Tropical Wet E	vero	reen	(2)	Moist Dec	midmonie.			
	(3)	Alpine Scrub	10161		(4)	Thorn	audous			
28.	Cana	th a Maarii al XI	7-4 17-					····		
20.	Sou (a)	thern Tropical W Maharashtra		vergreen 10r Karnataka		ound in Kerala	(d)	Andamans		
		wer options :	(2)		. (0)	norma	(α)	TAINGAINAINS		
	(1)	(a), (b) and (c)			(2)	(a), (b), (c	(b) bae (
	(3)	Only (c)			(4)	Only (d)) and (u)			
					·····	——————————————————————————————————————				
29.	Dry	Alpine Scrub for								
	(1)	xerophytic form	ation	n with dwar.	f shrubs					
	(2)	mesophytic form								
	(3)	xerophytic form	nation	n with tall sl	hrubs					
	(4)	mesophytic form	natio	n with tall s	shrubs					
30.	The	law which de	fines	that all o	rganisms	have an	ecologica	l minimum	and	
	max	imum for a facto	ris:							
	(1)	Liebig's law of l								
	(2)	Shelford's law o	_							
	(3)	Principle of Dyn								
	(4)	Principle of The	ermo	dynamics						

31.	Consider the following statements:										
	(a)	Saris	ka is a	Nation	al Park loca	ted in Raj	asthan.				
	(b)	Saris	ka is al	so a Ti	ger Reserve.						
	(c)		Force ve of Sa		stablished f	or the cr	isis of lo	ss of tigers	in the p	rotected	
	Whi	ch of t	he abov	e state	ments is/are	e correct ?					
	(1)	Only	(a) and	(c)							
	(2)	All of	the ab	ov.e							
	(3)	Only	(a) and	(b)							
	(4)	None	of the	above							
32.	As of 2022, Maharashtra holds rank in terms of number of wildlife sanctuaries in Indian States.										
		1 st	o III III(2^{nd}	(9)	3^{rd}	(4)	4 th		
	(1)	1.,		(2)	Z	(3)	3	(4)	4		
33.	Match the National Parks with their State:										
	(a)	Band	dhavga	rh Nati	onal Park	(i)	Uttar Pra	desh			
	(b)	Dack	nigam N	Vationa	l Park	(ii)	West Ben	gal			
	(c)	Dud	hwa Na	tional	Park	(iii)	Madhya F	radesh			
	(d)	Suno	darban	Nation	al Park	(iv)	Jammu a	nd Kashmir			
	Answer options:										
	1210	(a)	(b)	(c)	(d)						
	(1)	(ii)	(i)	(iv)	(iii)						
	(2)	(iii)	(iv)	(i)	(ii)						
	(3)	(i)	(ii)	(iv)	(iii)						
	(4)	(iv)	(iii)	(i)	(ii)						
	<u> </u>	<u>_</u> _		-	a o s et			<u> </u>		. 1: 1	
34.	In the first two decades of 21 st century, the number of protected areas in India has increased from 574 to 987. However, most of the increase in numbers has taken										
	plac	e in :						*		•	
	(a)	Natio	onal Pa	rks							
	(b)		life Sar								
	(c)		munity								
	(d)		ervatio								
			-	ve is/ar	e correct?						
	(1)	Only				(2)	Only (b				
	(3)	Only	(a) and	i (b)		(4)	Only (c) and (d)			

	The term used to designate area dedicated by statute for conservation of scener natural and historical objects, wildlife and wild vegetation for the benefit of publisher where hunting of fauna and collection of flora is prohibited is: (1) Archeological Site (2) Ex-situ Conservation Site										
	(1) (3)	Archeologic National Pa			(2) (4)	Protection I		n Site			
36.	An extension approach that enables local people to share, enhance and analyse th										
	knowledge and living condition to plan and act is:										
	(1) Rapid Rural Appraisal (2) Participatory Rural Appraisal										
	(3) Socialism Index										
	(4)	Structural									
37.	In India, Social Forestry Programme began in										
	(1)	1950	(2)	1960	(3)	1965	(4)	1970			
38.	Alley cropping is:										
	(a) also known as hedgerow intercropping										
	(b) retaining fast-growing, preferably N-fixing trees or shrubs										
	(c) practiced only in tropical regions										
	Which of the above is/are correct?										
	(1) Only (a)										
		(2) Only (b)									
	(3) (4)	Only (c) Only (a) an	d (b)								
	An Eco-Development Committee (EDC) is different from a Joint Forest Manageme Committee (JFMC) in that										
39.		-			OC) is diffe	erent from a d	Joint Fo	rest Managem			
 39.		mittee (JFM	IC) in th	at		erent from a d	Joint Fo	rest Managem			
39.	Com (a)	mittee (JFN	IC) in tha ages in p	at rotected are	eas.		Joint Fo	rest Managem ·			
39.	Com (a)	it is for vill	IC) in tha ages in p ages in b	at rotected are uffer zone o	eas. f protected	l areas.	Joint Fo	rest Managem ·			
39.	(a) (b) (c)	it is for vill it is for vill it is for vill	IC) in tha ages in p ages in b ages in S	at rotected are uffer zone o	eas. f protected	l areas.	Joint Fo	rest Managem ·			
39.	(a) (b) (c)	it is for vill it is for vill it is for vill it is for vill	IC) in tha ages in p ages in b ages in S	at rotected are uffer zone o	eas. f protected	l areas.	Joint Fo	rest Managem ·			
39.	(a) (b) (c) Ans	it is for vill it is for vill it is for vill it is for vill wer option	IC) in tha ages in p ages in b ages in S	at rotected are uffer zone o	eas. f protecteo omic Zone	l areas.		rest Managem			
39.	(a) (b) (c) Ans (1) (3)	it is for villit wer option Only (a) Only (c)	IC) in the ages in pages in bages in S	at rotected are uffer zone o pecial Econ	eas. f protected omic Zone (2) (4)	d areas. Only (b) Only (a) and	l (b)	rest Managem			
	(a) (b) (c) Ans (1) (3)	it is for villit wer option Only (a) Only (c)	IC) in the ages in pages in bages in S	at rotected are uffer zone o pecial Econ	eas. f protected omic Zone (2) (4)	d areas. Only (b) Only (a) and	l (b)				

41.	Protected areas are notified and managed under the provisions of the										
	(1)	Wildlife (Protection) Act, 1	972								
	(2)	Forest (Conservation) Act,	1980								
	(3)	Forest Rights Act, 2006									
	(4) Environmental (Protection) Act, 1986										
42.	Eve	erything is permitted unless	prohibited.' Th	is statement is applicable to :							
	(a)	Reserved forests									
	(b)	Protected forests									
	(c)	•									
	(d) Private forests										
	Which option/s is/are correct as per the provisions of the Indian Forest Act, 1927?										
	(1)	Only (a)	(2)	Only (b)							
	(3)	Both (b) and (d)	(4)	Both (a) and (c)							
43.	colle	According to Chapter VIII of the Indian Forest Act, 1927, any Forest Officer can collect some material which is adrift, beached, stranded or sunk. Which material is referred to here?									
	(1)	Fodder	(2)	Wild animal							
	(3)	Stray cattle	(4)	Timber							
 44.	The	The main drawback of the Forest Policy, 1894 was :									
	(a)	Claim of cultivation was co	- ·								
	(b)	It had no provision for wild	llife.								
	(c)	It did not consider the prot	ection and env	ironment values of forests.							
	Ans	swer options :									
	(1)	(a) and (b)	(2)	Only (a)							
	(3)	(a) and (c)	(4)	All of the above							
45.		the Forest (Conservation)	Act, 1980, th	e term 'non-forest purpose' includes							
	(a)	tea and coffee									
	(b)	horticultural crops									
	(c)	medicinal plants									
	Ans	swer options :									
	(1)	Only (a)	(2)	Only (a) and (b)							
	(3)	Only (c)	(4)	All of the above							
	(0)		(T)	THE OF MIC COAL							

46.	UNDP's mandate is:										
	(a)	the assessment of climate change									
	(b)	to fight poverty									
	(c)	human well-being, environmental conservation and equity									
	(d) implementing environmentally sound policies and practices										
		Answer options: (1) (a) and (b) (2) Only (b)									
	(1)	, - , ,	(2)								
	(3)	(c) and (d)	(4)	Only (d)							
47.	To prevent over-exploitation of wild fauna and flora through International Trade, a convention on was signed at Washington on 3 rd March, 1973.										
	(1)										
		(2) Union for Conservation of Nature and Natural Resources									
	(3)										
	(4)	International Trade in Endangere	ed Speci	es							
48.	India established in March 1993, to discuss about the protection of tiger population in the world.										
	(1)) Tiger Preservation Society of India									
	(2)										
	(3) International Union for Conservation of Nature and Natural Resources										
	(4)										
49.	Whi	Which of the following are correctly matched?									
		Convention				Year					
	(a)	Convention on International Trad	e in En	dangered Species	_	1973					
	(b)	Convention on Biological Diversity		•	_	1991					
	(c)	Convention on Wetlands of Intern	ational	Importance		1971					
	(d)	Convention on Migratory Species		_		1979					
	Ans	wer options :									
	(1)	(a), (b) and (c)	(2)	(a), (b) and (d)							
	(3)	(a), (c) and (d)	(4)	(b), (c) and (d)							
50.	The	International Tropical Timber Org	anizatio	on (İTTO) has its h	eadqu	arters in :					
	(1)	Bogor, Indonesia									
	(3)	London, UK	(4)	Yokohama, Japar	ı						

- 51. Geodetic control network, topographic base and graphical overlays are various categories of:(1) Geoscientific data(2) Geospatial data
 - (3) Geometric data
 - (4) Google data
- 52. Geographic Information System deals with which kind of data?
 - (1) Numeric data
 - (2) Complex data
 - (3) Binary data
 - (4) Spatial data
- 53. Consider the following statements about National Biodiversity Authority (NBA) of India:
 - (a) It was established in 2003.
 - (b) Its headquarters is in Chennai.
 - (c) It is a statutory body.

Which of the above statements is/are correct?

- (1) Only (a)
- (2) Only (b)
- (3) Only (a) and (c)
- (4) All of the above
- 54. The characteristic of a vegetation commonly evaluated as a measure of dominance is:
 - (1) Biomass
 - (2) Basal area
 - (3) Canopy area
 - (4) All of the above
- 55. Aichi Biodiversity targets:
 - (a) to have 5 strategic goals
 - (b) to have 40 targets
 - (c) are for 2011 2020

Which of the above is/are correct?

- (1) Only (a)
- (2) Only (b)
- (3) Only (a) and (b)
- (4) Only (a) and (c)

56.	People's Biodiversity Registers are to be prepared at the level of:									
	(a)	National Biodiversity Authority								
	(b)	State Biodiversity Board								
	(c)	Biodiversity Management Committee								
	Ans	swer options:								
	(1)	(a), (b) and (c)								
	(2)	Only (a) and (b)								
	(3)	Only (b)								
	(4)	Only (c)								
57.	is a fragment of tissue transplanted from its original site and									
		ntained in an artificial medium.								
	(1)	Cell								
	(2) Subculture									
	(3)	Explant								
	(4)	Primary culture								
58.	The Mongoloid tribes living in the Northeastern States of India, namely Naga-Kuki make their living by practicing:									
	(1) Shifting cultivation									
	(2)	Permanent cultivation								
	(3)	Dairy								
	(4)	None of the above								
59.	The	advantage of double haploid lines over conventional inbred lines								
	(1)	is stable in expression over generations.								
	(2)	creates variability.								
	(3)	shows heterosis.								
	(4)	is the best morphological marker.								
60.		includes a variety of land uses, where woody species are grown in								
	com	bination with herbaceous crops, either at the same time or in time sequence.								
	(1)	Social forestry								
	(2)	Woody forestry								
	(3) Agroforestry									
	(4)	Dense forestry								
कच्च्य	ा कामार	niठी जागा / SPACE FOR ROUGH WORK P.T.O.								

61.	Our Solar System is just one of many Solar Systems in the galaxy.									
	(1)	Andromeda	(2)	Triangulum						
	(3)	Milky Way	(4)	Cigar						
62.	Who	en the current increases, potent	ial drop acr	oss the conductor	·					
	(1)	Increases	(2)	Decreases						
	(3)	No change	(4)	None of the abo	ve					
63.		ee resistances of 500 Ω , 5000 Volt mains. What is the curren			ed in series across a					
	(1)	1 A (2) 100 mA	(3)	10 mA	(4) 10 A					
64.	Energy can be transformed from one form to another but it cannot be created or destroyed. The total amount of energy in a universe remains constant. This is the statement of Law of (1) Gravitational Force (2) Nuclear Force									
	(3)	Conservation of Energy	(4)	Chemical Kinet	ics					
65.		en an electric current passes the nent emits light. This is due to Mechanical Chemical	-	-						
66.	is composed almost entirely of methane although it does contain small amounts of other gases. These are ethane, propane, butane and pentane.									
	(1)	Natural gas	(2)	Inert gas	politica					
	(3)	Neon gas	(4)	Xenon gas						
67.	leng foca	ile seeing objects at large dista- gth, while seeing nea- l length decreases, increases decreases, remains constant		_	more rounded and its eases					
68.	(1) (2)	speed of a wave along a stretch frequency of wave of the strin only tension in the string.	g.	ring depends on						
	(3)	only linear density of the strip								
	(4)	both tension and linear densi	ty of the str	ing.						
69.	Fe i	s a member of series of								
	(1)	2 nd transition	(2)	1 st actinide						
	(3)	1 st transition	(4)	2 nd actinide	,					

70.	Manufacturing of Ammonia by Haber process uses the following suitable catalyst economically:												
	(1)	Platinized asbestos	5										
	(2)	(2) Iron											
	(3)	Copper oxide											
	(4)	Nickel											
71.	Dur	During recycling of waste disinfected water, there is removal of											
	(1)	Elements		(2)	Viruses and Pa	rasit	tes						
	(3)	Stones		(4)	None of the abo	ve							
72.	Whi	Which is the chemical used for cloud seeding?											
	(1)	AgI		(2)	NaOH								
	(3)	NaCl		(4)	NH_4OH								
73.	Rayon is different from synthetic fibres because :												
	(1)	(1) It is the other name of silk											
	(2)	(2) It is obtained from wood pulp by chemical treatment.											
	(3)	# ·											
	(4)												
74.	Wha	at is the total numl	ber of orbitals	associa	ated with princi	pal (quantur	n number					
	(1)	2 (2)	4	(3)	9	(4)	16						
75.		ich of the following c nt or animal origin?	earbon isotopes i	s used	l to determine th	e ag	e of the	objects of					
	(1)	C-12		(2)	C-13								
	(3)	C-14		(4)	None of the abo	ve							
76.	The	mass of a neutron is	equal to that of	a/an_	•								
	(1)	proton		(2)	electron								
	(3)	meson		(4)	None of the abo	ve							
		nal ann 7 en ce cor						DTO					

77.	Mate	ch the	followi	ng Tax	onomist	s with their books on Plant Classification System :						
	(a)	Engl	ler and	Prantl		(i)		The Evolution and Classification of Flowering Plants				
	(b)	John	Hutch	inson		(ii)	Die or	Die or Natürlichen Pflanzenfamilien				
	(c)	Bent	tham ar	nd Hool	ker	(iii)	Famili	Families of the Flowering Plants				
	(d)	Arth	ur Cro	nquist		(iv)	Genera	a Plantarum				
	Ans	wer o	ptions	:								
		(a)	(b)	(c)	(d)							
	(1)	(ii)	(iv)	(i)	(iii)							
	(2)	(iii)	(ii)	(i)	(iv)							
	(3)	(ii)	(iii)	(iv)	(i)							
	(4)	(iii)	(iv)	(i)	(ii)							
78.	The	The percent amount of NPK in Fish manure is, and										
	(1) 7·80%, 2·30%, 2·22%						(2)	5.20%, 1.00	•			
	(3)	4.309	% , 2·009	%, 1·00°	%		(4)	4·10%, 3·90	9%, 0·30%			
79.	Angi	iosper	m Phyl	ogeny (Group de	evelope	ed APG	classification	in			
	(1)	1996		(2)	1997		(3)	1993	(4) 1998			
80.	White rust on radish and turnip are controlled by spraying											
	(1)	0.029	% Copp	er Sulp	hate		(2)	0·20% Dithane Z -78				
	(3)	0.209	% of Zin	eb			(4)	2% Mancoz	eb			
81.	Whi	ch of t	he follo	wing c	rops are	benefi	tted by		?			
	(1)	Bajra	a, Maiz	е			(2)	Chili, Toma	ato			
	(3)	Pota	to, Onic	m			(4)	Groundnut	, Sunflower			
82.	Whi	ch of t	he follo	wing p	ests atta	icks co	le crops	?				
	(1)	Meal	ybug				(2)	Aphid				
	(3)	Whit	efly				(4)	Fungus gna	at			
83.					ain butt			ths are best	controlled with the help of			
	(1) Ectocarpus secundes						(2)	Marchantia simlana				

84. Match the following:											
	(a)	Drag	gonflies			(i)	Plecopter	a			
	(b)	Fish	flies			(ii)	Ephemer	opetra			
	(c) Mayflies			(iii)) Neuropte	ra					
	(d)	Ston	eflies			(iv)	Odonata				
	Ans	wer options :									
		(a)	(b)	(c)	(d)						
•	(1)	(iv)	(iii)	(ii)	(i)						
	(2)	(iii)	(ii)	(i)	(iv)						
	(3)	(iv)	(i)	(iii)	(ii)						
	(4)	(ii)	(i)	(iii)	(iv)						
85.	85. Coat colour in Rabbit and Blood groups in Man are the best examples of :						are the best examples of:				
	(1)	Sex-l	inked I	nherita	nce		(2)	Polygenic Inheritance			
	(3)	Law	of Inhe	ritance			(4)	Multiple alleles			
86.	Mat	Match the following:									
	(a)	Dipnoi				(i)	Cyclostome	es			
	(b)	Elas	mobrar	chii		(ii)	Lung fish				
	(c)	Tele	ostei			(iii)	Bony fish				
	(d)	d) Marsipobranchii			(iv)	Cartilagin	ous fish				
	Ans	wer o	ptions	:							
		(a)	(b)	(c)	(d)						
	(1)	(ii)	(iv)	(iii)	(i)						
	(2)	(ii)	(iii)	(iv)	(i)						
	(3)	(i)	(iv)	(iii)	(ii)						
	(4)	(iv)	(iii)	(ii)	(i)						
87.	Whi	ich coelenterata is popularly known as "sea pen" or "sea feather"?									
	(1)	Alcyonium					(2)	Pennatula			
	(3)	Gorg	onia				(4)	Aurelia			
88.	Mode of feeding in free living protozoans is :										
	(1)	Holo	zoic				(2)	Saprozoic			
	(3)	Both	(1) and	(2)			·(4)	None of the above			

89.	Match the following:
	/ \ TY 3

(a) Hydra

(i) Protozoa

(b) Opalina

(ii) Porifera

(c) Sycon

- (iii) Annelida
- (d) Hirudinaria granulosa

(b)

(i)

(iv) Coelenterata

Answer options:

- (a)
- **(c)**
- (1) (iv) (i)
- (iii) (ii)

(d)

(iii)

- (2) (iv)
- (ii)
- (3) (i) (ii)
- (iii) (iv)
- (4) (iii) (i)
- (ii) (iv)
- 90. The young are born alive but in a rudimentary undeveloped condition is known as:
 - (1) Metatheria

(2) Eutheria

(3) Prototheria

- (4) None of the above
- 91. The horizon E' or A_2 in soil profile is known as:
 - (1) Horizon of maximum eluviation
 - (2) Top most mineral horizon
 - (3) Transition layer
 - (4) Horizon of maximum accumulation
- **92.** The texture of soil is a basic property of soil because:
 - (1) it is decided by relative proportion of different size particles forming the soil.
 - (2) the size of particles in mineral soils is not subject to change by simple cultural practices.
 - (3) particle size can be decided by hydrometric method.
 - (4) All of the above
- **93.** Which of the following organisms is associated with phosphate solubility?
 - (1) Aspergillus awamori
 - (2) Azotobacter
 - (3) Thiobacillus thiooxidans
 - (4) Clostridium

None of the above

(4)

is the ratio of total length of stream to the watershed area.

(1) Elongation ratio **(2)** Circularity ratio

 $2.5 \,\mathrm{m/s}$

(3)

100.

(

(3) Relief ratio

Drainage density

सूचना - (पृष्ठ 1 वरून पुढे....)

- (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 स्वत:बरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षाकक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

न	मून	T	प्रश्	न

	•	9
Pick out the	correct word to fill in the blar	ık :
Q. No. 201.	I congratulate you	your grand success.
	(1) for	(2) at
	(3) on	(4) about
		' असे आहे. त्यामुळे या प्रश्नाचे उत्तर ''(३)'' होईल. यास्तव
	खालीलप्रमाणे प्रश्न क्र. 201 समोरील आवश्यक आहे.	न उत्तर-क्रमांक ''③'' हे वर्तुळ पूर्णपणे छायांकित करून दाखविणे
प्र. क्र. 201.	① ② • ④	
	अन्य गाउँकी सम्बद्ध मध्यमध्यिकील र	क्रिक गुणाना ज्ञाना अस्तरमांक हा सहात्य प्रत्यंत्रीच्या मारिकेच्या

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

कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK