Total No. of Printed Pages: 13

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M.Phil./Ph.D./URS-EE-Oct.-2017

SUBJECT: Environmental Science

A		10029 Sr. No.
Time: 11/4 Hours	Max. Marks: 100	Total Questions: 100
Roll No. (in figures)	(in words)	
Name	Father's Name	
Mother's Name	Date of Examination_	
(Signature of the Candidate)		(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- 1. All questions are compulsory.
- 2. The candidates must return the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means/misbehaviour will be registered against him/her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- 3. In case there is any discrepancy in any question(s) in the Question Booklet, the same may be brought to the notice of the Controller of Examinations in writing within two hours after the test is over. No such complaint(s) will be entertained thereafter.
- 4. The candidate must not do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers must not be ticked in the question booklet.
- 5. There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
- 6. Use only Black or Blue Ball Point Pen of good quality in the OMR Answer-Sheet.
- 7. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

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1.	The type of succession that occurs a	fter a vo	lcanic eruption is :
	(1) Primary	(2)	Secondary
	(3) Tertiary	(4)	Autogenic
2.	The phenomenon known as charact	er displa	cement is associated with:
	(1) Allopatric species	(2)	Sympatric species
	(3) Competitive species	(4)	Primary succession
3.	A species that interacts with many can be called:	other or	ganisms in its community in critical ways
	(1) Endemic species	(2)	Pioneer species
	(3) Keystone species		Predator
4.	Which of the following is an organic	gas?	
	(1) Hydrocarbons	500	Aldehydes
	(3) Ketones	(4)	Ammonia
5.	The major contributor of Carbon mo	onoxide i	s?
	(1) Motor vehicle		Industrial process
	(3) Stationary fuel combustion		None of the above
6.	The threshold limit of benzene in air	r is?	
	(1) 15 ppm	(2)	20 ppm
	(3) 25 ppm	(4)	30 ppm
7.	Amrita Devi Bishnoi sacrified her lii	fe to the	protection of:
	(1) Sal trees	(2)	Khejri trees
	(3) Alpine meadows	(4)	Pine trees
8.	Kattas is the ancient method of water	er harves	ting found in :
	(1) Himachal Pradesh	(2)	Tamil Nadu
	(3) Karnataka	(4)	Madhya Pradesh
9.	The percentage of evaporation of wa	ter from	land and ocean surface are respectively?
	(1) 16 and 84%	(2)	84 and 16%
	(3) 65 and 35%	(4)	60 and 40%
10.	The restricted distribution of species	s in smal	l area called :
	(1) Biome	(2)	Niche
	(3) Endemism	(4)	Ecosphere

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11.			follow	ing sp	ecies is	endemic		Drosera sp
	(1) Va (3) Gr		ula			539	2 60	Ginkgo biloba
12.	Which	one is	not er	dange	red?			
	(1) Ba					(2)	Giant Panda
	(3) Po	dophy	llum			(4)	Mergosa
13.	Tempo	orary h	ardnes	ss is ca	used du	ie to?		
	(1) M	agnesi	um car	bonate	9			Magnesium sulphate
	(3) Ca	lcium	sulpha	ate		(4)	Calcium chloride
14.	Which	of the	follow	ring ra	dioactiv	e eleme	nt	is largely associated with bone cancer?
		dium-		2000				Iodine
	(3) Th	norium	-232			((4)	Strontium-90
15.	Where	e did th	ne Exx	on Val	dex oil s	spill take	e pl	ace?
		ne gulf					(2)	Off the cost of Alaska
	(3) N	ear Ch	ina			Ì	(4)	Off the cost of New York
16.	The w	eight o	of water	er vapo	ur per u	unit wei	ght	of air is?
		pecific				1	(2)	Relative Humidity
	(3) A	bsolute	e Hum	idity			(4)	None of the above
17.	Layer	which	prote	cts ear	th from	being hi	t b	y meteoroids is ?
	(1) T	roposp	here				(2)	Mesosphere
	(3) T	hermo	sphere				(4)	Stratosphere
18.	Match	n the fo	ollowir	ng:				
	(a) C	irrus					(A) Feather
	(b) C	umulu	ıs				(B)	Heap
	(c) S	tratus					(C) Layer type
	(d) N	Jimbus	3				(D) Rain cloud
	V	(a)	(b)	(c)	(d)			
	(1)	(A)	(B)	(C)	(D)			
	(2)	(A)	(C)	(B)	(D)			
	(3)	(C)	(A)	(D)	(C)			
	(4)	(D)	(C)	(B)	(A)			

19.	(1) Speed and flow of surface waters at	variou	as depths
	(2) Strong winds that result in tornadoe		1
	(3) The wind-flow pattern in a jet stream		
	(4) All of the above		
20.	Species that occur in different geographi	cal reg	gions separated by special barriers are :
	(1) Sibling	(2) S	ympatric
	(3) Allopatric	(4) N	None of the above
21.	Which of the following is a Biodiversity	Hot-sp	pot in India ?
	(1) Western Himalaya	(2) E	astern Ghats
	(3) Leh	(4) S	undalands
22.	In the areas of intensive cultivation with of green revolution, the fertile alluvial added in the soil to solve the problem of	soils	are becoming saline. What should be
	(1) Zinc	(2) P	hosphorus
	(3) Gypsum	(4) N	Vitrogen
23.	Calculate the change in the chemical isothermally at a temperature of 20.0° C	poten so tha	itial of a perfect gas when it expands at its volume doubles.
	(1) -1.69 kJ mol ⁻¹		115 J mol ⁻¹
	(3) +1.69 kJ mol ⁻¹	(4) +	-115 J mol ⁻¹
24.	Calculate the entropy change when 2.0 i gas B mix spontaneously:	nol of	f a perfect gas A and 3.0 mol of a perfect
	(1) $+195 \text{ J K}^{-1}$	(2) +	-28 J K ⁻¹
	(3) -12 J K^{-1}		-8.34 kJ K ⁻¹
25.	pH of a saturated solution of Ba(OH) ₂ Ba(OH) ₂ is:	is 12.	The value of solubility product (K_{sp}) of
	(1) 4.0×10^{-6}	(2) 5	5.0×10^{-6}
	(3) 4.0×10^{-7}		5.0×10^{-7}
00	VO 102		ron beam in magnetic deflection mass
26.	spectrometer?	electi	Ton Dean in magnetic dencemen mass
	(1) Tungsten filament	(2) (Quartz rod

(4) Rhodium filament

(3) Silica

	8)
1		7
		-

	(2) Absorption is the reciprocal of transmittance(3) Absorption is the negative logarithm of transmi(4) Absorption is a multiple of transmittance	ttance
28.	chromatography?	
	(1) Magnesium oxide (2) Silica g	
	(3) Activated alumina (4) Potassi	ium permanganate
29.	29. Which of the following compounds is not an organi	c substance ?
	(1) Nicotine (2) Roteno	one
	(3) Pyrethrum (4) Lindar	ne
30.	 What are the units of LD50? (1) Gram/gram of animal body weight (2) Kilogram/gram of animal body weight (3) Milligram/gram of animal body weight (4) Milligram/kilogram of animal body weight 	
31.	31. When is the World Wild Life week?	
	(1) First week of September (2) Last w	reek of September
	(3) First week of October (4) Last w	reek of October
32.	32. Which of the following pairs of an animal at organisms in India?	nd plant represents endangered
	(1) Black duck and Banyan (2) Rhesus	s monkey and Tamarind
	(3) Leopard and Cinchona (4) Red Pa	anda and Bentinckia nicobarica
33.	33. Nilgiri Tahr, an endangered species is the state states?	animal of which of the followin
	(1) Karnataka (2) Tamil	Nadu
	(3) Andhra Pradesh (4) Kerala	i e
34.	34. Butanol is obtained by fermenting molasses by?	
	(1) Clostridium butyricum and Clostridium acetobutyl	licum
	(2) Clostridium butyricum and Clostridium tetanai	

27. In which of the following ways, absorption is related to transmittance?

(1) Absorption is the logarithm of transmittance

(3) Clostridium butyricum and Lactobacillus

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(4) Clostridium butyricum and Clostridium oceanicum

35.	First experiment regarding evolution	n of Life was performed by ?				
	(1) Watson and Crick	(2) Oparin and Haldane				
	(3) Urey and Miller	(4) Meselson and Stahl				
36.	Which of the following zones in a limited photosynthesis is able to tak	lake suffers from a lack of light and therefore e place?				
	(1) Pelagic	(2) Littoral				
	(3) Profundal	(4) Euphotic				
37.	Which of the following National Par	rk is in Odisha?				
	(1) Namdapha National Park	(2) Tadoba National Park				
	(3) Jaldapara National Park	(4) Simplipal National Park				
38.	Obsidian is rich in :					
	(1) Silica	(2) Iron				
	(3) Cobalt	(4) Calcium				
39.	The intensity scale earthquake is cal	led?				
	(1) Mercalli scale	(2) Ritcher scale				
	(3) Number scale	(4) None of these				
40.	El-Nino happens because ?					
	(1) Trade winds strengthens which	brings up warm ocean water				
	(2) Trade winds weaken which doe	esn't brings up the cold water				
	(3) Trade winds make the water co	ld				
	(4) Trade winds strengthens which	doesn't brings up the cold water				
41.	At the equator there is low pressure	belt called the				
	71 ((2) Jet streams				
	(3) Polar easterlies	(4) Doldrums				
42.	Which plateau is known as the min	eral heart land of India ?				
	(1) Bhander Plateau	(2) Chhota Nagpur Plateau				
	(3) Deccan Plateau	(4) Tibetan Plateau				
43.	Which is the leading state in Lead &					
	(1) Karnataka	(2) Maharashtra				
	(3) Rajasthan	(4) West Bengal				

44.	The following statically tes between the variances of ty	et is used to ascer vo sets of observa	rtain whether there is signation:	nificant difference	
	(1) t-test	(2)	F-test		
	(3) Chi square test	(4)	Regression		
45.	The geometric mean of the 4, 10, 25, 10	following data is	s:		
	(1) 10	(2)	5		
	(3) 12.25	(4)	100/49		
46.	If the mean and variance relation is correct:	of a Poisson dis	tribution are μ and σ , th	en the following	
	(1) $\sigma = \mu^2$	(2)	$\sigma^2 = \mu$		
	(3) $\sigma = 2\mu$		$\sigma = \sqrt{\mu}$		
47.	In the Gaussian Plume Modas:	del, the plume ris	se varies with Buoyancy	Flux Parameter F	
	(1) F	(2)	$F^{1/2}$		
	(3) F ^{1/3}		F ^{1/4}		
48.					
	(1) 5 M		10 M		
	(3) 15 M	201001	20 M		
49.	If D = Detector Dimensio Resolution Element (GRE) i	n, F = Focal Less equal to :	ength, H = Flying Heigl	nt, then Ground	
	(1) (D/F) × H	(2)	D/F		
	(3) H/F	(4)	D/H		
50.	Assume that the atmospher surface temperature is 35° (per 100 m).				
	(1) 3.5 km	(2)	2.5 km		
	(3) 1.5 km	(4)	1 km		
51.	Natural ore of radioactive isotope?	materials does	not contain which one	of the following	
	$(1) U^{235}$	(2)	Pu ²³⁹		
	$(3) U^{238}$	(4)	Th ²³²		

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52.	Which one of the following is used to particulate matter?	determine ambient concentration of suspended
	(1) Cascade impactor	(2) Kjeldahl's Flask
	(3) Sacchi Disk	(4) Folin-Wu method
53.	The power from the sun intercepted b	y the earth is approximately :
	(1) $1.8 \times 10^8 \text{ MW}$	(2) $1.8 \times 10^{11} \text{MW}$
	(3) $1.8 \times 10^{14} \text{ MW}$	(4) $1.8 \times 10^{17} \text{MW}$
54.	Global radiation =	
	(1) Direct radiation - Diffuse Radiatio	n
	(2) Direct radiation + Diffuse Radiation	on
	(3) Direct radiation / Diffuse Radiation	on
	(4) Diffuse Radiation / Direct radiation	on .
55.	Direct conversion of heat energy into e	lectrical energy is possible through:
	(1) MHD generators	(2) Fuel or solar cells
	(3) Thermionic converters	(4) Both (1) and (3)
56.	What is pulverized coal?	
	(1) Non smoking coal	(2) Coal free from ash
	(3) Coal broken into fine particles	(4) Coal which burns for long time
57.	Thermal gradient in a geo thermal plan	nt is given by :
	(1) Heat flux × Thermal conductivity	
	(2) Heat flux / Thermal conductivity	
	(3) Thermal conductivity / Heat flux	
	(4) None of these	
58.	Earth Hour organized by WWF in which	rh vear?
	(1) 1990	(2) 1997
	(3) 2007	(4) 2005
59.	To meet Euro-II emission standards, w low sulphur diesel?	that should be the sulphur content in the ultra
	(1) 0.05% or less than this	(2) 0.10%
	(3) 0.15%	(4) 0.20%
		7-7 ×-2 × 13

60.	Lio (16 lits) index is used to incusate.	(2)	Health of a person				
	(1) Air pollution(3) Road traffic noise	0.72	None of above				
61	Zeolites are hydrous silicate minerals w	hich	are used to:				
61.	(1) Remove toxic chemicals from water						
	(2) Neutralize water acidity						
	(3) Destroy disease causing organisms in municipal water supply						
	(4) Soften water						
		e to	kic metal and associated adverse impact :				
62.	(1) Zn – Brain tissue damage	(2)	Ni – Keratosis				
	(3) Ar – Renal poisoning		Hg – Pulmonary disease				
63.	The chemical formula for CFC-11 is:						
00.	(1) CF_2Cl_2 (2) $CFCl_3$	(3)	CHFCl ₂ (4) CHCl ₃				
64.	The false statement regarding the envir	onn	nental impact assessment is:				
04.	(1) Schedule I -> Lists of projects	(2)	Schedule II -> Application forms				
	(3) Schedule III - > Details of EAC	(4)	All of the above				
65.	The important step/s in the predication	n of	impacts is/are:				
	(1) Carrying out the evaluation of impacts						
	(2) Study of EIA						
	(3) Preparation of environmental management plan						
	(4) All of the above						
66.	All the cases of diversion of forests lan	d sh	ould be approved by :				
	(1) Central Government	(2	.) Conservator of Forests				
	(3) State Land Use Board) Ministry of Environment and Forests				
67.	. The projects of which of the following	are	being assessed for Environmental Impact				
	(1) Irrigation and Power		2) Administration				
	(3) Public investment	(4	1) All of these				
68	. If slate is exposed to more heat and pr	essi	are it changes into :				
	(1) Phyllite		2) Schist				
	(3) Gneiss	(4) Garnet				
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69.	Basel convention is related to the:	
	 (1) Trans-boundary movement of has (2) Ozone layer depletion (3) Sustainable development (4) Earth summit 	zardous waste and their disposal
70.	Which of the following is <i>not</i> a signifi (1) Agricultural farmland is lost (3) Rail transport and the automobile	(2) Population increases in the city
71.	Yu-cheng Disease in Taiwan is due to (1) Lead (3) Dioxin	the toxic effect of: (2) PCBs
72.	National institute of disaster managen (1) Bangalore (3) Mumbai	(4) Asbestos nent is at ? (2) Hyderabad (4) New Delhi
73.	India's national tsunami warning syste (1) 2005 (3) 2007	em became operational in ? (2) 2006 (4) 2008
74.	Which one of the following is the most (1) Cyclone (3) Typhoon	destructive ? (2) Tornado (4) Willy Willy
75.	List - I (Analytical Functions)	the correct answer from the codes given below: List - II (Activity under the function)
	(a) Defining scope of EIA(b) Identification of impacts(c) Prediction of impacts	 (i) Critical Assessment of impacts (ii) Estimation of the probability that a particular impact will occur (iii) Description of the existing environment
	(d) Impact Evaluation and Analysis (a) (b) (c) (d) (1) (iii) (iv) (i) (ii) (2) (iv) (iii) (ii) (i) (3) (ii) (i) (iii) (iv) (4) (i) (ii) (iv) (iii)	system (iv) Deciding important issues and concerns

76.	In the context of REDD ⁺ initiatives concerned with:	the la	nd clearing in forest areas is primarily
	(1) Physical resources of the area	(2)	Ecology of the area
	(3) Carbon budget of the area	(4)	Water resources of the area
77.	Risk assessment in EIA does not invol-	ve:	
	(1) Maximum credible analysis		
	(2) Hazard and operability studies		
	(3) Preparation of disaster management	ent pla	n
	(4) Assessment of economic benefit as		
	101 11		
78.		(2)	1981
	(1) 1980 (3) 1982	(4)	1983
	21.5)	SYCHE	
79.		(2)	Iron (III)
	(1) Iron (II) (3) Both Iron (II) and Iron (III)	81-33	Fe (OH) ₃
80.			
00.	(1) Nickel	(2)	Chromium
	(3) Molybdenum	(4)	Uranium
81.		(not p	roperly formed) due to the pollution of activity of:
	(1) Calmodulin	(2)	Mg ATPase
	(3) Ca ATPase		None of the above
82.	1	a usefi	al microorganism for:
-	(1) Reclamation of wastelands		
	(2) Bioremediation of contaminated	soils	
	(3) Gene transfer in higher plants		
	(4) Biological control of soil borne p	lant pa	thogens
83	2.32		
	(1) Sevin (Carbaryl)		
	(2) Temix (Aldicarb)		
	(3) Furadon (Carbofuran)		
	(4) All of the above		
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84.	Which of the following bacterium	is called as the superbug that could cleanup	oil
	spill?		
	(1) Pseudomonas putida		
	(2) Pseudomonas denitrificans		
	(3) Bacillus subtilis		
	(4) Bacillus denitrificans		
85.	Tehri Dam of Uttarakhand has been	constructed on the river	
	(1) Teesta	(2) Alaknanda	
	(3) Bhagirathi	(4) Ghaggar	
86.	How many agreements are there in A	Agenda-21 ?	
	(1) 4	(2) 5	
	(3) 6	(4) 7	
87.	World water day has been celebrated	d since ?	
	(1) 1987	(2) 1997	
	(3) 1977	(4) 2007	
88.	All of the following materials will rai	ise the pH of an acid soil, except:	
	(1) Calcium carbonate	(2) Magnesium oxide	
	(3) Dolomite	(4) Sulphur	
89.	What is the expected cation exchanorganic matter, 20% montmorillonite (1) 28 (3) 38	nge capacity (me/100 g) of a soil that with 50 clay, and 30% kaolinite? (2) 33 (4) 22	0/0
90.	What is theme of World Environmen	t Day 2017 ?	
	(1) Connecting people to nature		
	(2) Zero Tolerance for the Illegal Wil	ldlife trade	
	(3) Go Green		
	(4) None of the above		
91.	One carbon credit is equivalent to:		
	(1) 10000 Kg of CO ₂	(2) 1000 Kg of CO ₂	
	(3) 100 Kg of CO ₂	(4) 10 Kg of CO ₂	
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92.	"Haryali Yojna" is related to:	
	(1) Crop management	(2) Soil management
	(3) Air management	(4) Water management
93.	National Renewable Energy Act came	e in year ?
	(1) 2000	(2) 2005
	(3) 2010	(4) 2015
94.	Which of the following material has l	nighest hydraulic conductivity?
	(1) Sandstone	(2) Limestone
	(3) Clay	(4) Quartzite
95.	Profuse growth of bacteria in water b	oody results in?
00.	(1) Death of algae	(2) Death of aquatic plants
	(3) Deaths of fishes	(4) Lesser nutrients in water
96.	an which riv	er?
	(1) Narmada	(2) Cauvery
	(3) Krishna	(4) Godavari
97.	What is the name given to the diver-	sion channels of the Western Himalayas?
	(1) Phalodi	(2) Khadins
	(3) Guls or Kuls	(4) Johad
98.	11	
50.	(1) Wind	(2) Glaciers
	(3) Heavy rain	(4) Fast running river
99	. What is the bond length of hydro	gen bond between two water molecules in liquid
	water?	(2) 0.177 nm
	(1) 0.0177 nm	(4) 17.70 nm
	(3) 1.177 nm	0.30
100		
	$(1) 10^{-13} M$	(2) 9^{-13} M
	(3) $10^{-13} \mathrm{M}^2$	$(4) 9^{-13} M^2$

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1.	1	16. 1	===	31.	3	46.	1	61.	4	76.	3	91.	2
2.	2	17. 2		32.	4	47.	3	62.	1	77.	4	92.	4
3.	3	18. 1		33.	2	48.	1	63.	2	78.	3	93.	4
4.	4	19. 1		34.	1	49.	1	64.	3	79.	1	94.	3
5.	1	20. 3		35.	3	50.	4	65.	4	80.	4	95.	3
6.	3	21. 4		36.	3	51.	2	66.	3	81.	1	96.	3
7.	2	22. 3		37.	4	52.	1	67.	1	82.	2	97.	3
8.	3	23. 1		38.	1	53.	2	68.	1	83.	4	98.	3
9.	1	24. 2		39.	1	54.	2	69.	1	84.	1	99.	2
10.	3	25. 4		40.	2	55.	4	70.	4	85.	3	100.	1
11.	4	26. 1		41.	4	56.	3	71.	2	86.	2		
12.	4	27. 3		42.	2	57.	3	72.	4	87.	2		
13.	1	28. 4		43.	1	58.	3	73.	3	88.	4		
14.	4	29. 4		44.	2	59.	1	74.	1	89.	2		
15.	2	30. 4		45.	1	60.	3	75.	2	90.	1		

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1.	4	16.	3	31.	2	46.	3	61 .	4	76 .	3	91.	1
2.	4	17.	3	32.	1	47.	4	62.	2	77.	1	92.	2
3.	1	18.	3	33.	2	48.	1	63.	1	78.	1	93.	4
4.	4	19.	2	34.	2	49.	1	64.	2	79.	1	94.	1
5.	2	20.	1	35.	4	50.	2	65.	1	80.	4	95.	3
6.	1	21.	2	36.	3	51.	4	66.	1	81.	1	96.	2
7.	2	22.	4	37.	3	52.	3	67.	3	82.	2	97.	2
8.	1	23.	3	38.	3	53.	1	68.	1	83.	3	98.	4
9.	1	24.	1	39.	1	54.	2	69.	1	84.	4	99.	2
10.	3	25.	2	40.	3	55.	4	70.	4	85.	1	100.	1
11.	2	26.	3	41.	3	56.	1	71.	4	86.	3		
12.	4	27.	4	42.	4	57.	3	72.	1	87.	2		
13.	4	28.	3	43.	2	58.	4	73.	2	88.	3		
14.	3	29.	1	44.	1	59.	4	74.	3	89.	1		
15.	3	30.	4	45.	3	60.	4	75.	4	90.	3		

PAGE: 3 SET : C

1. 4	16. 1	31. 2	46. 3	61. 2	76. 2	91. 2
2. 2	17. 3	32. 4	47. 1	62. 4	77. 2	92. 1
3. 1	18. 4	33. 4	48. 1	63. 3	78. 4	93. 2
4. 2	19. 4	34. 3	49. 1	64. 1	79. 2	94. 2
5. 1	20. 4	35. 3	50. 4	65. 2	80. 1	95. 4
6. 1	21. 1	36. 3	51. 3	66. 3	81. 4	96. 3
7. 3	22. 2	37. 3	52. 4	67. 4	82. 4	97. 3
8. 1	23. 3	38. 3	53. 2	68. 3	83. 1	98. 3
9. 1	24. 4	39. 2	54. 1	69. 1	84. 4	99. 1
10. 4	25. 1	40.1	55. 3	70. 4	85. 2	100. 3
11. 4	26. 3	41. 4	56. 3	71. 1	86. 1	
12. 3	27. 2	42. 1	57. 4	72. 2	87. 2	
13. 1	28. 3	43. 2	58. 1	73. 4	88. 1	
14. 2	29. 1	44. 3	59. 1	74. 1	89. 1	
15. 4	30. 3	45. 4	60. 2	75. 3	90.3	

PAGE: 4
SET: D

1.	2	16.	3	31.	4	46.	3	61.	1	76.	1	91.	1
2.	4	17.	3	32.	4	47.	3	62.	2	77.	3	92.	2
3.	3	18.	3	33.	1	48.	3	63.	4	78.	1	93.	3
4.	1	19.	1	34.	4	49.	2	64.	1	79.	1	94.	4
5.	2	20.	3	35.	2	50.	1	65.	3	80.	4	95.	1
6.	3	21.	3	36.	1	51.	4	66.	2	81.	4	96.	3
7.	4	22.	4	37.	2	52.	1	67.	2	82.	3	97.	2
8.	3	23.	2	38.	1	53.	2	68.	4	83.	1	98.	3
9.	1	24.	1	39.	1	54.	3	69.	2	84.	2	99.	1
10.	4	25.	3	40.	3	55.	4	70.	1	85.	4	100.	3
11.	2	26.	3	41.	2	56.	3	71.	4	86.	1		
12.	1	27.	4	42.	4	57.	1	72.	2	87.	3		
13.	2	28.	1	43.	4	58.	1	73.	1	88.	4		
14.	2	29.	1	44.	3	59.	1	74.	2	89.	4		
15.	4	30.	2	45.	3	60.	4	75.	1	90.	4		