## RET/14/Test B

989

Integrated M. Phil. - Ph. D. Programme in Environment & Sustainable Development

	Question Booklet No	
9. E	(To be filled up by the candidate by blue/black ball-point pen)	
Roll	No.	
Roll	No. (Write the digits in words)	
1 5	No. of OMR Answer Sheet	
	and Date	,
Davi	(Signature of Invigila	itor)
	INSTRUCTIONS TO CANDIDATES	
	(Use only blue/black ball-point pen in the space above and on both sides of the Answer Shee	<b>2</b> )
	Within 10 minutes of the issue of the Question Booklet, Please ensure that you have correct booklet and it contains all the pages in correct sequence and no page/questions. In case of faulty Question Booklet, bring it to the notice Superintendent/Invigilators immediately to obtain a fresh Question Booklet.  Do not bring any loose paper, written or blank, inside the Examination Hall except t	of the
l	Card without its envelope.	
	A separate Answer Sheet is given. It should not be folded or mutilated. A second Answerle be provided.	•
	Write your Roll Number and Serial Number of the Answer Sheet by pen in toprovided above.	•
	On the front page of the Answer Sheet, write by pen your Roll Number in the space pr the top, and by darkening the circles at the bottom. Also, wherever applicable, Question Booklet Number and the Set Number in appropriate places.	write the
6.	No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.	3.5a
	Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise taken as unfair means.	
8	This Booklet contains 40 multiple choice questions followed by 10 short answer of For each MCQ, you are to record the correct option on the Answer Sheet by dark appropriate circle in the corresponding row of the Answer Sheet, by pen as mention guidelines given on the first page of the Answer Sheet. For answering any five shown that the same of the Answer Sheet.	ned in the rt Answer
9.	For each question, darken only one circle on the Answer Sheet. If you darken more circle or darken a circle partially, the answer will be treated as incorrect.	1.0
10.	Note that the answer once filled in ink cannot be changed. If you do not wish to classify leave all the circles in the corresponding row blank (such question will be	<i>attempt</i> a awarded

12 Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.

13. You are not permitted to leave the Examination Hall until the end of the Test.

14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

11. For rough work, use the inner back page of the title cover and the blank page at the end

Total No. of Printed Pages: 15

zero marks).

of this Booklet.

## FOR ROUGH WORK

## Research Entrance Test - 2014

No. of Questions: 50

Time: 2 Hours

Full Marks: 200

Note: (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

- (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks.

  I (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (iii) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

Env	ronment & Sustainable Development	Code No. : 989
1.	A high level of biological oxygen demand (BOD) in a water that the water is polluted with:	sample indicates
	(1) heavy metals (2) organic materials	
	(3) radioactive materials (4) plastics	
2.	The first biosphere reserve established in India was:	
	(1) Nandadevi National Park & Biosphere reserve	
20	(2) Nilgiri biosphere reserve	
	(3) Great Rann of Kutch	
	(4) Great Nicobar Biosphere Reserve	
		15
3.	,	
	(1) symbiotic association between a fungus and bacteria.	
	(2) symbiotic association between a fungus and algae.	
	(3) parasitic association between a fungus and roots of higher p	olants.
20	(4) symbiotic association between a fungus and roots of higher	plants.
4.	The Minamata diseases was due to:	200
	(1) mercury pollution (2) arsenic pollution	
	(3) cadmium Pollution (4) lead pollution	
5.	The Red data book is published by	ter
		UNEP '
6.	The species which are localized in a specific region is called	
	(1) rare species (2) endemic species	*
	(3) threatened species (4) common species	
_		
7.		.*
	(1) Solanum (2) Withania (3) Pongamia (4)	Calotrop <b>i</b> s
RET	/14/Test B/989 (2)	
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(1) prop roots (2) velamen roots (3) pneumatophores (4) still roots  9. Which of the following is an indicator of faecal contamination? (1) Ecoli (2) Amoeba (3) Paramecium (4) Snai  0. Which organism can fixes molecular nitrogen in the roots of legumino (1) Rhizobium sp (2) Clostridium sp (3) Badillus sp (4) Staphylococcus sp  1 Which of the following stands true for the rhizosphere? (1) Rekion where soil and roots make contact (2) Apical part of the root (3) Epidermal part of the root (4) Root hairs  2 The flow in the natural stream is almost always turbulent and may obe incompressible, consequently the applicable equations of mound are the: 1) Bed-load equation (2) Reynold's equation (3) Lacey's equation (4) Lane's equation (5) Coriae (2) Volcanic bomb (3) Pumie (4) Tuff (4) When cavities between the mineral grains in a rock contains fluid, it is (1) Permeable rock (5) Cavernous rock (6) Cavernous rock (7) Regnains constant (8) Slowly increases with height (9) Regnains constant (1) Slowly increases with height (1) Regnains constant (2) Rapidly increases with height (3) Regnains constant (4) Slowly increases with height (5) Regnains constant (6) Slowly increases with height (6) Rapidly increases with height (7) Slowly increases with height (8) Slowly increases with height (9) Slowly increases with height (1) Slowly increases with height (2) Rapidly increases with height (3) Slowly increases with height (4) Slowly increases with height	
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(3) Remains constant (4) Slowly increases with he	tn height
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16.	Of the following which one is a recalcitra	int:	
ë	(1) Sugarçane waste	(2)	DDT
	(3) Cellulose	(4)	Lignin
17.	Steel units generate the following polluta	ants	
	(1) Particulates, smoke, carbon mono-ox	cide	, flouride
	(2) SO <sub>2</sub> , acid mist		
	(3) NO <sub>x</sub> , SO <sub>2</sub> , particulates		
	(4) SO <sub>2</sub> , NO <sub>x</sub> , particulates, smoke	6 3	* ************************************
18.	The waves that carry most energy are:	a Ø	
	(1) UV waves	(2)	Infra-red waves
	(3) Micro-waves	(4)	Millimeter waves
19.	For a normal distribution skewness is:	12.0	
	(1) 1 (2) ∞	(3)	1/2 (4) 0
20.	The Law of Conservation of Energy is de	escr	ibed by :
4	(1) Zeroth Law of Thermodynamics	(2)	First Law of Thermodynamics
	(3) Second Law of Thermodynamics	(4)	Third Law of Thermodynamics
21.	Electromagnetic Pollution is caused by :		
* 1	(1) Vehicular Traffic	(2)	Mobile phones
	(3) Aircraft noise	(4)	Lightning and Thunder storms
22.	Weathering of Granite produces the sed	ime	ntary rock known as :
E	(1) Shale (2) Graywacke	(3)	Limestone (4) Arkose
23.	Land use pattern is usually studied by the	he f	ollowing technique :
	(1) Aerial photography	(2)	Satellite imaging
7	(3) Satellite imaging and G. I. S.	(4)	Satellite imaging, G. I. S. and G.P. S
RET/	14/Test B/989 (4)		

24.	Group of individuals of the same species that share common attributes are called
	(1) Community (2) Population (3) Ecotype (4) Society
25.	In our country the Van Mahotsav Day is observed on:
	(1) Second of October (2) First of December
	(3) Tenth of August (4) First of July
26	If waste materials contaminate the source of drinking water which of the
	following diseases will spread?
	(1) Scurvy (2) Typhoid (3) Malaria (4) Anaemia
	(1) Seq. (2) Typhola (6) Mainta (1) Milliana
27.	Which one of the following statements regarding EI-NINO is NOT true'?
	(1) It develops as temporary replacement of usual cold Peruvian Current.
	(2) It causes an increase in plankton thriving in cold Peruvian current.
	(3) It is an extension of equatorial current towards the western coast of South
	Anηerica.
	(4) It is an occasional warm current leading to an increase of about 10°C in
	subsurface water temperature.
	render to the state of the stat
28,	Which of the following is a goal of environmental science'?
y	(1) Understand how we interact with the environment.
	(2) Live more sustainably and find ways to deal with environmental problems.
	(3) Learn how life on earth has thrived and survived and understand how we interact with the environment.
	(4) Learn how life on earth has thrived and survived, understand how we
	interact with the environment, and live more sustainably and find ways to
	dear with environmental problems.
29.	Hvery day, approximately new people are added to the global population.
	(1) 53 million (2) 100 million (3) 83 million (4) 153 million
	(1) 35 framon (2) 100 number (3) 250 million (1)
30.	Which of the following pattern of evolution accounts for all the diversity present
	on earth today?
	(1) Microevolution (2) Megaevolution (3) Biodiversity (4) Speciation
RETA	14/Test B/989 (5)

31.	Select the choice that correctly states the best priority for use of non-renewable resources, such as metals and plastics, from the environmentally sustainable perspective.
	(1) recycle, reuse, reduce (2) reduce, reuse, recycle.
	(3) reduce, recycle, refuse (4) repurpose, recycle, remake
32.	Which of the following is a social movement dedicated to the protection of the Earth's natural capital?
100	(1) Ecology (2) Environmental science
	(3) Natural science (4) Sustainability
33.	Which of the following is an example of recycling?
	(1) collecting and remelting aluminum beer cans and making them into new cans
	(2) cleaning and refilling soft-drink bottles
	(3) selling used clothing at a garage sale
	(4) using household water to water a garden
34.	World Environment Day 2014 theme is dedicated to:
	(1) Forest (2) Small Islands
	(3) Water pollution (4) Biodiversity
35.	Epicenter of an earthquake is a point associated with the:
	(1) place where earthquake is felt
	(2) place of origin of earthquake in the interior of earth
¥1	(3) point on the earth's surface just above seismic focus
	(4) point over the earth's surface where first shock is felt
36.	Biological Oxygen Demand (BOD) is used as a standard measure of
17 04	(1) Oxygen level in forest system
	(2) Oxygen level in animals
*	(3) Oxygen level in water system
	(4) Oxygen level in atmosphere
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37.	Among the following, the richest source of protein is:	
	(1) Ground Nut (2) Rice (3) Potato	(4) Apple
38.	Which one of the following does not contribute to conservat	ion of water?
	(1) Waste water treatment (2) Waste land dev	elopment
	(3) Water shed protection (4) Rain water har	vesting
<b>70</b> .	Arsenic problem in India is primarily due to:	
	(1) Overexploitation of arsenopyrite in the less developed p	part of country
	(2) Overexploitation of coal in Bihar and Bengal	
	(3) Overexploitation of ground water in the affected area	
	(4) Overexploitation of surface water in the affected areas	*
40.	Acid rain is caused due to:	
	(1) CO and $CO_2$ (2) $SO_2$ and $O_2$	
	(3) $NO_2$ and $O_2$ (4) $SO_2$ and $NO_2$	
	npt any five questions. Write answer in 150-200 words. Earks. Answer each question on separate page, after writing Qu	
٦.	What is radiative forcing?	
2.	Define 'sustainable development'.	
23*	Write an account on waste water treatment.	
3.		
4.	Differentiate between climate change and climate variability	<b>7.</b>
5.	What are the major threats to biodiversity in India?	
6.	What are the challenges of feeding a rapidly growing popul	ation.
7.	Comment briefly on 'Planetary boundaries'.	
В.	Discuss merits and demerits of biofuels.	
9.	Listane causes and problems of air pollution.	
O.	Councent briefly on the causes of Kedarnath disaster of 201	<b>3.</b>
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## FOR ROUGH WORK