REV-00 - MEV/06/12

## M.Sc. ENVIRONMENTAL SCIENCE Fourth Semester WILDLIFE ECOLOGY (MEV – 403 A)

**Duration: 3Hrs.** 

Full Marks: 70

Marks: 50

Part-A (Objective) =20 Part-B (Descriptive) =50

(PART-B: Descriptive)

## Duration: 2 hrs. 40 mins.

## Answer any four from Question no. 2 to 8 Question no. 1 is compulsory.

- What is man-elephant conflict? What are the causes of man-animal conflict? Discuss various preventive and mitigative measures to address man-animal conflict. (1+3+6=10)
- What are the various habitat-centric measures adopted in India to protect the threatened species? Discuss each one of them in details. (3+7=10)
- 3. Define wetland. Discuss the importance of wetlands. (2+8=10)
- 4. What are *in situ*, *ex situ* and community conservation programmes? Discuss the strengths and weaknesses of these programmes. (3+7=10)
- 5. How a census is different from a sampling? Describe various wildlife census techniques. (2+8=10)
- 6. Why Northeast is so rich in terms of wildlife? Discuss various threats to wildlife of this region. (5+5=10)
- 7. What is animal migration? Why migration is important? Write a note on bird migration. (2+3+5=10)
- Define social organisation. Discuss in details the social organisation of any one mammalian species. (2+8=10)

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2017/06

REV-00 MEV/06/12 2017/06	vii) What is the d National Park (a) Dry savan
M.Sc. ENVIRONMENTAL SCIENCE Fourth Semester	(c) Woodland
WILDLIFE ECOLOGY (MEV – 403 A) Duration: 20 minutes Marks – 20 (PART A - Objective Type)	viii) Which one c (a) Habitat fra (b) Linear infi (c) Climate ch (d) Chytrid fu
I. Choose the correct answer: 1×20=20 i) Rudrasagar Lake—a Ramsar Site—is located in? (a) Tripura (b) Mizoram (c) Manipur (d) Nagaland	ix) Which species (a) Western h (b) The Indiar (c) The Royal (d) Asian elep
<ul> <li>ii) Ais an instrument used for taking measurement of canopy cover.</li> <li>(a) Range finder (b) Densiometer</li> <li>(c) Clinometer (d) Densitometer</li> </ul>	<ul><li>x) Which method</li><li>(a) Camera tra</li><li>(c) Occupancy</li></ul>
<ul> <li>iii) Which one of the following is not a grassland species?</li> <li>(a) Hispid hare <i>Caprolagus hispidus</i></li> <li>(b) Bengal Florican <i>Houbaropsis bengalensis</i></li> <li>(c) Pygmy Hog <i>Porcula sylvanus</i></li> <li>(d) Red-headed trogon <i>Harpactes erythrocephalus</i></li> <li>iv) Wildlife act of India declares national park under: <ul> <li>(a) Section 18</li> <li>(b) Section 35</li> <li>(c) Section 37</li> <li>(d) None</li> </ul> </li> </ul>	xi) RAMSAR co (a) 1971 xii) The followin 1. Population 2. Population 3. Extent of au 4. Probability
<ul> <li>v) Keystone species is: <ul> <li>(a) a species that has either large habitat needs or other requirements whose conservation results in many other species being conserved at the ecosystem or landscape level.</li> <li>(b) a species that has a disproportionate effect on its environment relative to its biomass and whose removal initiates significant changes in ecosystem structure and loss of biodiversity.</li> <li>(c) a species used as the focus of a broader conservation marketing campaign based on its possession of one or more traits that appeal to the target audience.</li> <li>(d) a species whose status provides information on the overall condition of the ecosystem and of other species in that ecosystem.</li> </ul> </li> <li>vi) Which one of the following is not a migratory bird in Assam? <ul> <li>(a) Peregrine Falcon <i>Falco peregrines</i></li> <li>(b) White Wagtail <i>Motacilla alba</i></li> <li>(c) Red-vented Bulbul <i>Pycnonotuscafer</i></li> <li>(d) Baer's Pochard <i>Aythya baeri</i></li> </ul> </li> </ul>	As per IUCN (a) Endangere (c) Critically xiii) Which is no (a) Conservat (c) Biosphere xiv) Which one o (a) Creating a (b) Facilitatin environme (c) Analysis a (d) Establishi xv) Which bamb (a) Bambusa (c) Dendroca

vii) What is the dominant type of hab National Park?	itat utilised by great Indian one-horned rhinoceros in Ora
	<ul><li>(b) Wet alluvial grassland</li><li>(d) Wetland habitat</li></ul>
<ul> <li>viii) Which one of the following is not</li> <li>(a) Habitat fragmentation</li> <li>(b) Linear infrastructures such as not</li> <li>(c) Climate change</li> <li>(d) Chytrid fungus</li> </ul>	ot a major threat to the frogs in northeast India? road, railway tracks etc
<ul> <li>ix) Which species have the smallest h</li> <li>(a) Western hoolock gibbon Hoold</li> <li>(b) The Indian rhinoceros Rhinoce</li> <li>(c) The Royal Bengal Tiger Panth</li> <li>(d) Asian elephant Elephas maximum</li> </ul>	ock hoolock eros unicornis nera tigris
<ul> <li>x) Which method is not utilised in tig</li> <li>(a) Camera trap</li> <li>(c) Occupancy survey</li> </ul>	ger population survey? (b) Mark -recapture (d) Point count
xi) RAMSAR convention was adopte (a) 1971 (b) 1972	d in: (c) 1973 (d) 1974
3. Extent of area occupancy below	mber fewer than 250 mature individuals
As per IUCN Red Data Book, the (a) Endangered (c) Critically Endangered	organism would be kept in category of: (b) Vulnerable (d) Near Threatened
<ul><li>xiii) Which is not a protected area act</li><li>(a) Conservation Reserve</li><li>(c) Biosphere Reserve</li></ul>	cording to the Wild Life (Protection) Act, 1972? (b) Community Reserve (d) National Park
(a) Creating awareness among the	
<ul> <li>xv) Which bamboo species in hills of (a) Bambusa tulda</li> <li>(c) Dendrocalamus hamiltonii</li> </ul>	f NE region play important role in nutrient cycling? (b) <i>Bambusa khasiana</i> (d) All

the context of both biodiver (a) TRAFFIC	sity conservation and susta	ly on trade in wild animals and plants in ainable development? Treatment of Animals (PETA)
xvii) What is/are the hidden co (a) Transaction loss (c) Health impacts		ct?
xviii) If the flowers of a partic several years, this is a sign (a) Pollution (c) Diseases		ing earlier than the normal month for
xix) One of the following elep (a) Chilla-Motichur elephar (b) Simplipal-Satkosia elep (c) Baghmara-Balpakram el (d) Kotgarh-Chandrapur ele	t corridor hant corridor ephant corridor	northeast India?
xx) The vision of Indian Rhind (a) 500 m (b) 10	is limited to around: 0 m (c) 50 m	(d) 10 m

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SESSION: 2016-17	Constant Street		
COURSEPAPER Code:	and the second		
NAME OF THE PAPER:			
SEMESTER			
Instructions to Candidates	For Objective		Session: 2016-17
1. This answer booklet has 4 pages. Please check before	Type Questions		
writing whether it is complete or in good condition.	Page No.	Marks	Course
2. Do not write your name anywhere in the answer booklet.			Roll No
3. Write legibly on both sides of the paper			Enrollmont No
4. You may use some space for any rough notes or calculation			Enrollment No Semester
on the answer booklet if you need. These rough notes,			Semester
calculations must be scored out before submitting the answer			Name of the Paper
booklet.			-
5. Do not bring any book or loose paper in the examination			
hall.	Total	N. T. T.	Paper Code
6. Do not tear any page from the answer booklet.	For Descriptive Type Questions		
7. Do not write anything on the question paper or blotting	Question No. Marks		
paper or any pieces of paper while you are in the examination			
hall.			
8. Any act of indiscipline or misbehavior in the examination hall			
will result in your expulsion.			
9. No examinee is allowed to leave the examination hall until			
30 minutes lapse after the commencement of the examination.			
10. Additional answer sheet will be supplied after the main			
answer booklet is completed.	1000 A 100		
	Total		
	Grand Total		

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