Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number		
Course	Semester	
Paper Code	Paper Title	
Type of Exam:	(Regular/Back/Improv	vement)

Important Instruction for students:

- 1. Student should write objective and descriptive answer on plain white paper.
- 2. Give page number in each page starting from 1st page.
- **3.** After completion of examination, Scan all pages, convert into a single PDF and upload to the Google classroom as attachment.
- 4. Exam timing from 10am 1pm (for morning shift).
- 5. Question Paper will be uploaded before 10 mins from the schedule time.
- **6.** Additional 20 mins time will be given for scanning and uploading the single PDF file.
- **7.** Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

B.Sc. ZOOLOGY FIRST SEMESTER ECOLOGY BSZ - 102

Duration: 3 hrs.

(<u>PART-A: Objective</u>)

Time: 20 min.

Marks: 20

Full Marks: 70

Choose the correct answer from the following: 1×20=20

- **1.** What is the full form of CITES?
 - a. Convention on International Trade in Exotic Species
 - b. Convention on International Trade in Exotic Species of Wild Fauna
 - c. Convention on International Trade in Exotic Species of Wild Fauna and Flora
 - d. None of these

2. Which section of the Wildlife Protection Act of India deals with the declaration of Community Reserve?

b. Section-34

d. None of these

b. Improve the design

- a. Section-17
- c. Section-35
- **3.** The role of EIA is to _____ of the project.
 - **a.** Modifying the design
 - c. Justification of the proposal d. All of these

4. In case of wildlife sanctuary, the land belongs to -

- a. Governmentb. Communityc. Both a&bd. None of these
- 5. The previous name of IUCN was
 - **a.** International Union for Protection of **b.** World Conservation Union Nature
 - c. Both a&b d. None of these
- 6. Which of the following gas is categorized as particulate pollutants?
 - a.
 SO2
 b.
 SO3

 c.
 NOx
 d.
 None of these
- 7. Which of the following gas is responsible for pre-mature ageing in plant?
 - **a.** O₂ **b.** CO **c.** CO₂ **d.** All of these
 - **c.** CO_2 **d.** All of these
- 8. The main global contributing factors to greenhouse- gas emissions are
 - a Industrial processes b. Agricultural processes
 - c Agriculture and transportation d. None of these

9.	All the member of a species inhabiting in a give		
	a Biomes		Organisms Population
	c Community	u	ropulation
10.	Secondary consumers are always a		
	a Omnivore		Herbivore
	c Scavenger	u	Carnivore
11.	Depletion of Ozone layer causes, which of the		
	· ·	arac	t in eyes leading to blindness.
	3. Lung infection a Only 1 & 2	b	Only 2 & 3
	c 1,2 and 3		Only 1
10		1	· · · · · · · · · · · · · · · · · · ·
	It involves the transfer of energy from green p repeated stages of eating and being eaten is-	lan	is through a series of organisms with
	a Ecosystem	b	Food chain
	c Habitat	d	Ecological pyramid
13.	Which is the most common available form of S	սԽ	hur in plants?
	a H ₂ S		SO4 ²⁺
	c SO ₂	d	S
14.	The largest reservoir of Phosphorous in the bio	spl	nere is
	a Rock		Atmosphere
	c Ocean	d	Organisms
15.	The sequence of communities showing a gradual cha	nge	in composition is called as -
	a Continum community		Serel community
	c Climax community	d	Continual community
16.	The mechanism of modification of the environment	me	nt through the influence of living
	organisms on its own is called		
	a Establishmentc Stabilization		Invasion Reaction
17.	Odum preferred to call the process of ecologica		
	a Ecological Modificationc Ecosystem Development		Ecological Development Ecosystem Modification
10			Ecosystem would alon
18.	Total individuals per unit habitat space is calle	-	Crudo donaita
	a Ecological densityc Random density		Crude density Regular density
10	<i>y</i>		· ·
19.	Succession brought about by the internal forces		
	a Secondary successionc Allogenic succession		Primary succession Biotic succession
20	, and the second s		
20.	A dying off population is well represented by a Bell shaped pyramid	h	Urn shaped pyramid
	c. Inverted pyramid		Broad based pyramid
		-	

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(<u>PART-B : Descriptive</u>)

Time: 2hrs 40mins.

[Answer question no.1 & any four (4) from the rest]

1.	Define soil pollution. Write the major sources of soil pollutants and mention the effect of soil pollution.	2+4+4=10
2.	How many sections and chapters are there in the Wildlife Protection Act of India? State the various definitions briefed in this act.	2+8=10
3.	What do you mean by EIA? Brief the process of EIA and also mention its advantage.	1+5+4=10
4.	What is a biogeochemical cycle? Mention the Nitrogen and Sulphur cycle.	4+6 =10
5.	Define ecosystem. Brief the structure of an ecosystem. Also write the principle of energy flow in an ecosystem.	1+5+4=10
6.	Explain Leibeg's Law of Minimum and Shelford's Law of Tolerance. Explain the significance of limiting factors.	5+5=10
7.	What is a population? Explain the different aspects that characterize a population.	3+7=10
8.	Write short on : a. Ecotone b. Edge Effect	5+5=10

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Marks: 50