# B.E IN CIVIL ENGINEERING(CV-2018-19) Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER – V

# ENVIRONMENTAL STUDIES Course Code 18CIV59 CIE Marks 40 Teaching Hours / Week (L:T:P) (1:0:0) SEE Marks 60 Credits 01 Exam Hours 02

#### Module - 1

Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake.

Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.

## Module - 2

Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind.

Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.

#### Module - 3

Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

#### Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.

## Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship-NGOs.

**Field work:** Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate ecology knowledge of a complex relationship between biotic and a biotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that
  managers face when dealing with complex issues.

## Question paper pattern:

- The Question paper will have 100 objective questions.
- · Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textboo	ok/s			
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 <sup>nd</sup> Edition, 2012

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2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 <sup>rd</sup> Edition' 2018
3	Environmental Studies – From Crisis to Cure	R Rajagopalan	Oxford Publisher	2005
Refer	ence Books			- W. C. C. A.
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 <sup>nd</sup> Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks/Cole,	11 <sup>th</sup> Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, AnoopSingh& PiyushMalaviya	Acme Learning Pvt. Ltd. New Delhi.	1 <sup>st</sup> Edition

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Class: EEE Sec: A. Subject: Studies cons: 1801459...

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Internal Assessment -I

Subject	Environmenta	1 Studies	
Semester	/Section: Com	mon to al	hranches

Duration: 1 hr

Max.Marks: 30

Name of the Course Instructors KHP, PGA, AJ. MHK, BCH, VS Time: 10:15 Am to 11:15 Am

Date- 17.11.2022

Sub Code: 18CIV59

Note: Answer all the questions

1. The world population in 2000 was around

a) 8 billion b)6.1 billion c)7.1 billion d)5.1 billion

2. The universal declaration of human rights was proclaimed by the UN in the year

a)1946

611947

c) 1948

d) 1949

3. The major objective of family programmes in india is

a) Disease control population

- b) Population growth rate control
- c) Employment generation
- d) None of the above

4. Which of the following conceptual spheres of the environment is having the least storage capacity for matter?

- a) Atmosphere b) Lithosphere c) Hydrosphere d) Biosphere
- 5. Atmosphere consists of 79 per cent Nitrogen and 21 per cent Oxygen by
- a) Volume
- blweight
- c) Density

d) All the three

6. In complex ecosystems the degree of species diversity is

a) Poor

b) high

- c) medium d) none
- 7. The sequence of eating and being eaten in an ecosystem is called a) Food Chain b) carbon cycle c) hydrological cycle d) anthropo system
- Which of the following is a producer in an ecosystem?
- a) Plants and some bacteria capable of producing their own lood
- b) Animals
- c) Human beings
- d) Fish
- The largest reservoir of nitrogen in our planet is a) Oceans b) Atmosphere c) biosphere d) Fossil tuels
- 10. In aquatic ecosystem phytoplankton can be considered as a
- a) Consumer b) Producer c) Saprotrophic organisms d) Macroconsumer
- 11. The basic requirements of human beings are provided by
- a) Industrialization b) Agriculture c) Nature d) Urbanization
- 12.In an ecosystem biological cycling of materials is maintained by
- a) Producer b) Consumer c) Decomposer d) All of the above
- 13. Organisms which feed directly or indirectly on producers are called
- a) Prev b) Consumers c) Decomposers d) Detritus
- 14. Which of the following statement is true?
- a) Green plants are self-nourishing
- b) Producers depends on consumers
- e) Biotic components include all non-living components
- d) Herbivores depend on Carnivores
- 15. Primary consumer is
- a) Herbivores b) Carnivores c) Macro consumers d) Omnivores
- 16.A predator is
- a) An animal that is fed upon
- b) An animal that feeds upon another animal
- c) Animal that feeds upon both plants and animals
- d) A primary consumer
- 17. Which of the following is absorbed by green plants from the atmosphere?
- a) Carbon dioxide
- b) Water
- c) Nutrients
- d) Ali of above
- 18. Habitat refers to
- in Physical conditions of the place where organisms. The

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c) Both a & b d) None of a or b

#### 19 A food web consists of

- a) a portion of a food chain
- b) an organism's position in a food chain
- c) interlocking food chains
- d) a set of similar consumers

## 20. Which of the fallowing is a ecosystem?

a) Forest

b) desert

c) Mountain

d) All.

## 21 Environment means

- a) Surrounding (Biotic + Abiotic components), in which organisms live
- b) Atmosphere around one self.
- ct. Sum total of social, Leonomic, biological behavior of animals.
- d) Sum total of development activities around.
- 22.---- is termed as the life zone of the earth.
- a) Atmosphere b) Hydrosphere c) Biosphere d) Stratosphere.
- 23. The term ecosystem was first proposed by
- a) Jacob van verkul b) A G Transley c) Costraza d) Marie Gibbs
- 24. The two major components of ecosystem are
- a) Adiabatic & Isotropic
- b) Ecologie & climatologie
- er Cyclic & biologic
- d) Abiotic & biotic.

## 25. Biotic components include

- a) All living organisms
- b) water, mineral & gases
- c) Self-nourishing green plants
- d) Light, temperature etc.

## 26. Food chain is divided into-----

basic categories

a) Four by Three c) Live di Seven

## 27. Mining practices lead to

- a) Population growth
- b) Rapid urbanization
- c) Loss of grazing and fertile land
- d) None of these

## 28. Which of the following are major environmental issues involved in mining?

- a) Air pollution from dust
- b) Water pollution
- c) Soil degradation
- d) All of the above

## 29. Mining means

- a) To conserve & preserve minerals
- b) To check pollution due to mineral resources
- c) To extract minerals and ores
- d) Soil

## 30. Gold occurs in

a) Sedimentary deposits b) Places deposits c) Hydrothermal deposits d) None.

6)

CO I

Understand the principles of ecology and environmental issues that apply to air, land and water issues on a global scale

Signature of Course Instructors

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## SAPTHAGIRI COLLEGE OF ENGINEERING Department of Civil Engineering

## SCHEME and SOLUTION

Subject: Envigionmental
Studies
Sub Code 18 CT V 59

Semester/Section:

Common to cell

Delanches

Max.Marks: 30

Name of the Course Instructors

Date: 9/11/22

KHP, PGA, AJ, SR, W. BOH

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Sri Srinivasa Educational & Charitable Trust



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Creating Tomorrow	Internal Assessment To	est-II F-IAT-04/R0
Subject: Environmental Studies	Sub Code: 18CIV59	Name of the coarse instructors.
Semester/Section:5th SEM	Max Marks: 30	PGA, AJ, KHP, VS, BCH, PKR, MHI
Duration: 60 Minutes	Date:27.12.2022	Time: 9.30am to 10.30am
Note: Answer a	all the questions	
Presence of pesticides in water cau     a. CO2 b. DDT & Heptachlor		disorders because of
2. Fluoride through is an effective age	ent to preventing dental cari	es, has a permissible limit of
a. 0.5 mg/L b. 1.5 mg/L	c. 5mg/L	d. 15mg/L
3. Skeletal fluorosis is characterized b	ру	
a. Severe and permanent bone join c. Nervous breakdown d. A	t deformation b	. Disordered blackened
4. Fluorosis is caused due to		
a. No fluoride intake b. Low fluo	ride intake a Evassive flu	oride intake d None
		oride intake d. None
5. Decrease of oxygen level in water		
a. Fluorosis b. Death of aquatic	life c. water pollution	d. all the above
6. Malaria is a		
a. Water-borne disease b. water in		& b d. None
<ol><li>Water borne diseases can spread ra</li></ol>	pidly due to	
a. Proper sanitation b. Improper	sanitation c. improv	es sanitation d. None
8. about % of the earth's surf	face is covered by water	
a. 53% b. 19% c. 71	% d. 90%	
9. What is the maximum allowable co	ncentration of fluorides in o	drinking water?a. 6 to 9 b.
	5 to 8.5	
10. Major source of fluoride is		
a. River water bTooth paste c.Gr	ound water d. Food p	roducts
11. Deforestation can	ound water and out pr	
a) Increase the rain fall	b) Increase soil fe	ertility
c) Introduce silt in the rivers	d) None of these	itinty
12Plants use gas for		0.0.1. 11. 11
a) Oxygen b) methane	c) Nitrogen	d) Carbon dioxide
<ol><li>What percentage of its geographical</li></ol>	al area of a country should b	be under forest cover?
a) 23% b) 43% c) 13	% d) 33%	
14. During photosynthesis, trees		
During photosynthesis, trees	produce	
a) Oxygen b) Carbon Dioxide c) N	itrogen d) Carbon Monoxid	e
15. Percentage of worlds total water sup		y accessible fresh water for humanuse
a. 1% b. 10%	c. 20% d. 100%	
<ol><li>Which of the following is the source</li></ol>	e of ground water?	
a) Oceans b. Springs	c. Rivers d. All	

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Accredited by NBA (CSE, ISE, ECE, EE, MECH) An ISO 90001:2015 & 14001:2015 Certified Institution #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

## DEPARTMENT OF CIVIL ENGINEERING

## SCHEME & SOLUTION INTERNAL ASSESSMENT

Subject: Environmental Studies Subject Code: 1801V59 Date: 20/12/28

IA: First / Second / Third Staff-In charge: All faculties

Question Number	Solution	Marks Allocated
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ಖ	Ь	
	a	
4)	c	
5)	b	
6)	Ь	
步	Ь	
8)	C	
3 = 5 6 7 8 9	d	
10)	C	
11)	С	
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13)	d	
14)	9	
15)	9	
16)	6	
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19)	a	
20)	d	

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## First/Second Semester B.E Degree Examination, June /July 2016 **Environmental Studies**

(COMMON TO ALL BRANCHES)

Time 2 hrs 1

Max Marks 50

### INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the fifty questions, each question carries ONE marks
- 2. Use only Black ball point pen for writing / darkening the circles.
- 3. For each question, after selecting your answer, darkell the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkering two circles for the same question makes the answer invalid
- Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

Soil Erosion can be prevented by –     a) Overgrazing	n d) Deforestatio
a) Operation b) Soil Fracian c) Afforestation d) Defa-	n d) Deforestation
a) Overgrazing O) 3011 E1031011 C) Altorestation U) Deto	The state of the s

b) Copper mines Which one of the following is an abiotic component of the ecosystem

a) Bacteria

a) Gold mines

b) Plant

c) Human

c) Granite stone

d) Fungi

Inorease in fauna and decrease in flora would be harmful due to increase in

a) Diseases b) CO2 c) O,

d) Radioactive pollution

d) Marble stone

6. Acid rain is caused by increase in the atmospheric concentration of -

a) Ozone and dust

c) SO3 and CO b) SO2 and NO2

d) SO2 and Cr

7. Gas leaked in Bhopal tragedy was -

a) Potassium isothiocynate

b) Sodium isothiocynate

c) Ethyle isocynate

d) Methyl isocyanate

Biochemical oxygen demand measures a) Industrial pollution b) Air pollutions c) Poliuting capacity of effluents d) Dissolved oxygen needed to decompose organic matter The ultraviolet radiation in the stratosphere are absorbed by c) Sulphur dioxide d) Argon b) Oxygen a) Ozone 10. Which of the following is not a green house gas? e) Chlorofluro carbon d) Methane a) Oxygen b) Carbon dioxide 11. Formation of hole in ozone layer is maximum over d) Africa c) Europe b) Antarctica a) India 12. Study of trends in human population growth and prediction of future growth is called b) Biography c) Kalography d) Psychology a) Demography 13. Vasectomy is the method of sterilization in b) Woman c) Both man and Woman d)-None of these 14. The world AIDS DAY is recalled on d) 2nd October a) 12 July b) 5th June c) 1 December 15. ICDS is a welfare scheme for es Mar.

a) Public b) Woman

a) Oceans

di Children

16. The common polician present is pond and pools nearby agricultural fields are a) Dust b) Straw c) Pollens d) Chemical fertilizer and pesticides

17. The highest concentration of people with HIV infection have been recorded from a) India b) America c) China d) Africa

18. Which endangered animal is the source of the worlds lightest, warmest and most expansive wool the shahtoash a) Chiru b) Nilgai c) Cheetal d) Kasbmiri goat

19. The largest reservoir of nitrogen in our planet is -

b) Atomosphere c) Biosphere d) Fossil fuels

Maximum deposition of DDT will occur in

b) Crab a) Phytoplankton

d) Seagull c) Eel

21. Which of the following is a bio - diversity hotspots in India a) Gulf of Mannar b) Western Ghats c) Pachmorh

d) Sunderban

22. Which of the following are likely to be present in photochemical smog? d) All the above b) Peroxy acetyl nitrates c) Aldehides a) Ozone

-A2-



## 10CIV18/28

Recycle	b) Reuse	e -	c) Reduce the usa	age d) none of the abo
uclear power p	lant in Karnatal	ka is located	at -	
) Bhadravathi	b) Sand		c) Raichur	d) Kaiga
Rionas is nasen	ous fuel compos	ed mainly of		
a) CH <sub>4</sub> and CO	The state of the s	and H <sub>2</sub> S	c) CH4 and CO	d) None of the abo
		ALL OF		
	tion of water is		Har	d) Nada
2) D.O	p) 1	urbidity	c) PH	d) None
		3 b	attalled by fitting	
			ontrolled by fitting - b) Wet scrubb	var.
c) Catalytic	atic precipitator		d) All the abo	
Ci Catalytik	Converter			
28. Global wi	arming could aff	ect .		
a. C	Art .		in increase i	
- C Meta	og of glasser		d) All the at	oove
30 5			enacted in the year -	
2) 191		F) 1997	c) 1984	d) 1974
10				
			of pollution) act was e	enacted in the year
	water (preventio 986	b) 1974	of pollution) act was e c) 1994	enacted in the year d) 2904
2 1	986	b) 1974	c) 1994	
2 ! 31. "No		b) 1974	c) 1994 see on –	d) 2904
31. Wa 2.	986 orić environment 5° May	b) 1974 day is celebrai b) 5th Jun	c) 1994 see on – c) 10 <sup>th</sup> Ju	<b>d)</b> 2904
2) i 31, Wa 2) 32, (	986 prić environment 5° May Chernobyl nuclear	day is celebrat b) 5th Jun disaster occur	c) 1994  see on - c c) 10 <sup>th</sup> Ju  rred in the year -	d) 2904
2) i 31, Wa 2) 32, (	986 orić environment 5° May	b) 1974 day is celebrai b) 5th Jun	c) 1994 see on – c) 10 <sup>th</sup> Ju	d) 2904
2 1. % c 21. % c 22. (	986 orić environment 5° May Chernobyl nuclear 1984	day is celebrate b) 5th Lun disaster occur or 1985	c) 1994  ted on - c) 10 <sup>th</sup> Ju  rred in the year - c) 1986	d) 2004 ly d) 16 <sup>th</sup> August
2 1. % c 21. % c 22. (	986 prić environment 5° May Chernobyl nuclear	day is celebrate b) 5th Lun disaster occur or 1985	c) 1994  see on - c	d) 2004 iy d) 16 <sup>th</sup> August d) 1987
2 1 %c 31. %c 32. < 33.	986  orid environment  5° May  Chernobyl nuclear  1984  Ozone layer thick  Millimotre	day is celebrated by 5th June 1985 the country of the country in 1985 the country in 1	c) 1994  led on - c c) 10 <sup>th</sup> Ju  red in the year - c) 1986  red in - ionetre c) Decit	d) 2004 iy d) 16 <sup>th</sup> August d) 1987
2 1. % c 21. % c 22. (	986  oric environment 5° May  Enernobyl nuclear 1984  Ozone layer thick Millimotre  which of the (o)	day is ociobrai b) 5th Jun disaster occur or disaster occur or 1985 kness is measur b, Com liowing is a war	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib  terborne disease -	d) 2004  ly d) 16th August  d) 1987  d) Debson unit
31. We 32. Ke 32. Ke 33.	986  orid environment  5° May  Chernobyl nuclear  1984  Ozone layer thick  Millimotre	day is ociobrai b) 5th Jun disaster occur or 1985 kness is measur b, Com	c) 1994  led on - c c) 10 <sup>th</sup> Ju  red in the year - c) 1986  red in - ionetre c) Decit	d) 2004  ly d) 16th August  d) 1987  d) Debson unit
31. We 32. K	986  orlic environment 5th May  Decreobyl nuclear 1984  Ozone layer thick 3th Millimotre  which of the foll at Anthrese	b) 1974  day is celebrat b) 5° Jun disaster occur disaster occur b) 1985  kness is measur b, Cont b) Tub	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib terborne disease - erculosis c) Choli	d) 2004  ly d) 16th August  d) 1987  d) Debson unit  era d) Small pox
31. Wo 2. 32. G 33. 34.	986  orlic environment 5th May  Decreobyl nuclear 1984  Ozone layer thick 3th Millimotre  which of the foll at Anthrese	b) 1974  day is celebrat b) 5° 1cm disaster occur or disaster occur b) Cont b, Cont b, Cont continue is a war c) Tub	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib terborne disease - erculosis c) Chole is post abundant in au	d) 2004  ly d) 16 <sup>th</sup> August  d) 1987  sel d) Debson unit  era d) Small pox mosphere*
31. Wo 2. 32. G 33. 34.	986 orlic environment 5° May Decrnobyl nuclear 1984 Ozone layer thick 2. Multimotre Whom of the lot at Anthrese Write one of the 2. Methane	b) 1974  day is celebrat b) 5° Jun disaster occur b) 1985  kness is measur b, Cont liowing is a war b) Tub	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib terborne disease - erculosis c) Chole to most abundant in au fogen c) CFC	d) 2004  ly d) 16th August  d) 1987  d) Debson unit  era d) Small pox  mosphere? d) CO <sub>2</sub>
31. Wo 2. 32. G 33. 34.	986  orlic environment 5° May  Enemotive nuclear 1984  Ozone layer thick a. Millimotre  which of the foll b. Methane  Which of the fe	b) 1974  day is celebrat b) 5° Jun disaster occur is disaster occur is 1985 kness is measur b, Cont b, Cont continue is a war b) Tub continue gas b) Nitr	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib terborne disease - erculosis c) Chole to most abundant in au fogen c) CFC	d) 2004  ly d) 16th August  d) 1987  d) Debson unit  era d) Small pox  mosphere? d) CO <sub>2</sub>
31. Wo 2. 32. G 33. 34.	986  orlic environment 5° May  Decreobyl nuclear 1984  Ozone layer thick at Millimotre  Which of the foll at Millimote  Which ore of the at Millimote	b) 1974  day is celebrat b) 5° Jun c disaster occur c) 1985  kness is measur b, Com dillowing is a war b) Tub c following gas b) Nitr	c) 1994  led on - e c) 10 <sup>th</sup> Ju  red in the year - c) 1986  red in - ionetre c) Decib  terborne disease - erculosis c) Chole is most abundant in au rogen c) CFC	d) 2004  ly d) 16th August  d) 1987  d) Debson unit  era d) Small pox  mosphere? d) CO <sub>2</sub>
31. Wo 2. 32. G 33. 34.	986  orlic environment 5° May  Enemotive nuclear 1984  Ozone layer thick a. Millimotre  which of the foll b. Methane  Which of the fe	b) 1974  day is celebrat b) 5° Jun c disaster occur c) 1985  kness is measur b, Com dillowing is a war b) Tub c following gas b) Nitr	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib terborne disease - erculosis c) Chole terborne disease - c) CFC triethod for water cons b) Gro	d) 2004  ly d) 16th August d) 1987  del d) Debson unit era d) Small pox mosphere? d) CO <sub>2</sub> ervatum undwater extraction
31. Wo 2. 32. G 33. 34.	oric environment  St May  Enemobyl nuclear  1984  Ozone layer thick  Millimotre  When of the folial Anthrese  Write one of the  Millimote of the folial Anthrese  Write one of the  Millimote of the folial Anthrese  Which of the folial Anthrese  I full make full  I	b) 1974  day is celebrat b) 5° Jun disaster occur b) 1985  kness is measur b, Cont lilowing is a war b) Tub c following gas b) Nite Lidwing is not a r-celling g-gallon efficier	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - ionetre c) Decib terborne disease - erculosis c) Chole terborne disease - c) CFC triethod for water cons b) Gro	d) 2004  ly d) 16th August  d) 1987  d) Debson unit  era d) Small pox  mosphere? d) CO <sub>2</sub>
31. Wo 2. 32. ( 33. 34. 34.	oric environment  Shay  Enemobyl nuclear  1984  Ozone layer thick  Millimotre  Which of the foll  Mich	b) 1974  day is celebrat b) 5° Jun disaster occur b) 1985  kness is measur b, Cont lilowing is a war b) Tub c following gas b) Nitr lilowing in not a	c) 1994  see on - c c) 10 <sup>th</sup> Ju  rred in the year - c) 1986  red in - ionetre c) Decit  terborne disease - erculosis c) Choli is most abundant in au rogen c) CFC  method for water cons b) Groi noy d) Avo	d) 2004  ly d) 16th August  d) 1987  sel d) Debson unit  era d) Small pox  mosphere? d) CO2  er valum undwater extraction iding water wastage
31. Wo 2. 32. ( 33. 34. 34.	oric environment  St May  Enemobyl nuclear  1984  Ozone layer thick  Millimotre  When of the folial Anthrese  Write one of the  Millimote of the folial Anthrese  Write one of the  Millimote of the folial Anthrese  Which of the folial Anthrese  I full make full  I	b) 1974  day is celebrat b) 5° Jun disaster occur b) 1985  kness is measur b, Cont lilowing is a war b) Tub c following gas b) Nitr lilowing in not a	c) 1994  ted on - c c) 10 <sup>th</sup> Ju  tred in the year - c) 1986  red in - tionetre c) Decib terborne disease - erculosis c) Chole terborne disease - c) CFC triethod for water cons b) Ground C) d) Avo  b) Him	d) 2004  ly d) 16th August d) 1987  del d) Debson unit era d) Small pox mosphere? d) CO <sub>2</sub> ervatum undwater extraction



10CIV18/28

38.	A chronic disease (a) Heart	called silicosis invol b) Lungs	ves – c) Liver	d) Kidney
39.	Existing oil reserv	e of the earth could	ast for about -	
	a) 5000 yrs	b) 500 yrs	c) 50 yrs	d) 5 yrs
40.	EIA stands for – a) Environmental in c) Eco impact asses	A STATE OF THE STA		dustrial assessment nmental impact assessment
41.	Water quality invol- a) Coliform bacteria		mber of colonies c) Colis	of - d) Chromozomes
42.	About 3/4th of the co	ountry's coal deposits	are fo and in -	
	a) Karnataka		c) Kashmii	d) Bihar and Orissa
43.	What would you do	o prevent the environ		offur on 3) Alt the above
44.	Which of the following) Precipitation	ng is not a part of the b) Infiltration	hydrological cycl c) Transpirat	
45.	Eutrophication is - a) An improved quali	ty of water in lakes		
	b) A process of carbon	cycle julation of plant nutrie	nts in water bodie	s
46.	Common energy sour	ce in Indian villages is		
	a) Electricity	.b) Coal	c) Sun	d)Wood and animal dung
47.	Chipko movement wa	s started to conserve		Ferhalis Automatic
	a) Forest	b) Grassland	c) Deserts	d) Soil
48.	National park concerne	od with Dhann		
	a) Corbett	b) Ranthambore	.110	
			c" Kaziranga	2) Valler of Bowers
19.	The maximum number called -	r of individuals that c	an pe supported i	h, a grien environment is
	a) Biotic potential		b) Carrying capa.	
	c) Population size		d) Environmental	resistance
50	What is the permissible	range of nil a con-		
	What is the permissible a) 6 to 9	b) 6.5 to 7.5	ig water as per the	Indian standards?
		0/0.310/3	c) o to 8 5	d) o 5 to 8 5
				Continue and Analysis

-A4.

#### 15CIV18/28

30.	Biogas is produced by,				
	a) Microbial activity 'c) Both (a) and (b)	b) Harvesting crop d) None of these			
31.	Biomass consists of				
	a) Lignin	b) Hemi cellulose			
	c) Celluiose	d) All of these -			
32.	Petroleum based -ehicles er	mit traces of.			
	a) CO and NO.	b) SPM			
	c) Aldehydes	d) CH <sub>4</sub>			
33.	Urbanization is				
	a) Local environmental issu	b) National environmental issue			
	c) Both (a) and (b) ·	d) Not at all an issue			
34.	Noise pollution limits in inc	dustrial area.			
	a) 45 dB	b) 80 dB			
	c1 65 dB.	d) 90 dB			
35.	Ctaone layer absurbs				
	a) UV rays .	b) infrared rays			
	c) Cosmic rays	d) CO			
36.					
	31 Cond patterns are related				
	c) Erosion of soil	d) None of these			
37.	The natural nitrogen cycle is upset due to.				
	21 Burning of fossil fuel	b) Modern agricultural practice of releasing excess fertilization			
	c) Global warming	d) Bingas production			
38.		natural sources of air pollution?			
	a) Volcanic eruption	b) Solar flair			
	c) Earthquake	d) All of these •			
39.		les can be controlled by litting.			
	a) Electrostatic precipitator	b) Wet scrubber			
	c) Catalytic convener .	d) Ali of these			
40.	Bota power and manure prov				
	at Nuclear plants	b) The mal plants			
	C) Biolog mante	di libertraelectric plante			

15CIV18/28

## GBCS Scheme

USN 18G16 B7039

Question Paper Version : S

First/Second Semester B.E Degree Framination, Dec.2016/Jan.2017
Environmental Studies

(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max Marks 40

## INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the forty questions, each question carries ONE mark
- 2. Use only Black ball point pen for writing / darkening the circles.
- For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet
- 4. Darkening two circles for the same question makes the answer invalid
- 5. Damaging overwriting, using whiteness in the OMR sheets are strictly prohibited.

1.	La	nd conv	ersion throu	gh	burn	ing	of biomass	release	5.
	a:	O <sub>2</sub>		b)	CO	-		(5)	N:

d1 50

The movement of carbon between
 Atmosphere and biosphere
 Geosphere and atmosphere

b) Atmosphere and hydrosphere

d) Biosphere atmosphere, hydrosphere and gensphere

The ground water depends on,
 a) Amount of rain fall

c) Run off

b) Geological formations
d) All of these.

4. The important three minerals mined into the maximum extent are.

a) Coal, petroleum and mercury
 Petroleum, Radium and Xenon

b) Coal, Petroleum and Iron
d) Helium, Xenon and Coal

5. Respiration and photosynthesis are the keywords related to,

c) Carban cycle

b) Sulphur cycle
d) Hydrological cycle

6. Mining means

a) To conserve and preserve minerals

b) To check pollutions due to mineral resources

c) To extract minerals and ones -

d) None of these

- (1 -

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- C4 -

The most important fuel used by nuclear powers by V-235. b) V-238	150111000
a) V-235. b) V-239	I plant to
01 V-238	
The pH value of the acid rain water is,	d) V-245
a) 5.7.	41 4.248
c) 8.5	b) 7.0
7, 3, 3	b) 7.0
BOD means,	d) 7.5
DOD means,	
a) Biochemical exygen demand -	
e) Biophysical oxygen demand	b) Chemical oxygen demand     All of these
. Deforestation can	
a) Increase the rain fall	
c) Introduce silt in the rivers.	b) Increase soil fertility d) None of these
1. Organic farming is:	사람들은 하시네 가는 사람들은 그 없는데 다른데 없었다.
a) Farming without	
Farming without using pesticides and cl     Enhances biodiversity	nemical fertilizers
c) Promotes soil biological activity d) All of these.	
a) An ar mese.	
12. Chloro Fluro Carbon's (CFC) are,	
a) Non toxic	
c) Non carcinogenic	b) Non flammable
c) Non caremogenic	d) All of these -
13. Which of the following statement is true	
a. Green plants are sen nourishing	
by Producers depends on consumers	
c) Biotic components includes all non-	living components
d) Herbivores depend on Carnivores	
14. Major purpose of most of the Dams are	ound the world is.
a) Power generation	Of Dittiking water supply
c) Flood control	d) Irrigation -
15. Major causes of deforestation are	b) Fuel requirements
Styffing cultivation	di All of these -
c) Raw materials for industries	3) X (4) 1135
16. Smog is.	b) Combination of smoke and fog .
16. Sinog is.	d) All of these
	I spheres of the environmental is having the least storage
17. Which of the following conceptua	1 Splicies of St.
canacity for matter.	b) Lithosphere
a) Atmosphere	d) Biosphere
c) Hydrosphere	and the second s
	. C2 -

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18. Biosphere is.
     a) The solid shell of morganic materials on the surface of the earth
     b) The thin shell of argume matter on the surface of each comprising of all the living things.
     c) The sphere which occupies the maximum volume of all the spheres
     d) All of the above.
19. The earth's atmosphere is an envelope of gases present upto a height of about
                                                      c) 1000
                                                                                d) 2000.
                            5) 200
 20. Primary consumer is.
                                                                                d) Omnivores
                            b) Carnivores
                                                      c) Macro consumers
      a) Herbivores
  21. World environmental day is no
      at 5th May
                                                      c) 18th July
                                                                                d) 16th August
  22. Green revolution is,
        a) Crop variety improvements
                                                       b) Increased use of fertilizers
        c) Expansion of irrigation
                                                       d) All of these .
   23. Environmental is the life support system that includes.
                              b) Water
        a) Air
                                                       c) Land
                                                                                d) All of these '
    24. The largest reservoir or narrogen in our planer is
                               e) Atmosphere.
                                                       c) Biosphere
                                                                                d) Fossil lucis
    25. Which of the following is not a Green house gas?
         a) Hydro chloroflourocarbons
                                                        b) Methane
         c) CO:
                                                        d) SO: -
     26. E.I.A can be expanded us.
          a) Environment and Industrial Act
                                                        b) Environment and impact activities
          c) Environment Impact Assessment -
                                                        d) Environment important Activity
      27. The environmental (protection) act 1986 deals with
           a) Water
                                                        bi Air
           c) Soil
                                                        d) All of these .
      28. The first of the major environmental protection act to be promulgated in India was
            a) The wild life protection act
                                                         b) The air act .
            c) The noise pollution act
                                                         d) None of these
       29. The meaning of global warming is.
            a) Increase in the temperature of climate .
                                                         b) A planet hotter than earth
            c) Solar radiation
                                                          d) Cooling effect
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USN					

Question Paper Version : A

First/Second Semester B.E Degree Examination, June/July 2015

Environmental Studies

## (COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the fifty questions, each question carries ONE mark.
- 2. Use only Black ball point pen for writing / darkening the circles.
- 3. For each question, after selecting your answer, darken the appropriate circle
- corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

Nutrient cycli     a) Energy, wa     c) Light, weight		b) Autotrophs, nutrier d) None of these	nts, decomposers
	em, the flow of energy is al b) Cyclic	c) Unidirectional	d) Multidirectional
	following is not a part of the hy		d) Perspiration
	vironment' is derived from b) French	c) Spanish	d) English
	following is the terrestrial ecosy  b) Grass land		d) All of these
6. which g a) musosphe	the following in mo re D'Heterosphere	t a part g at	mosphere? Stratosphere.
	udy will help	without over load	ding the planet
6 To es	timate the future no	eeds g the socie	ty

	4 magns	on the future needs.	ich s
8.	Sustainable development means  a) Meeting present needs without compromisin b) Progress in human well beings. c) Balance between human needs and the abilit d) All of these.		
9.	Mineral resources are  a) Renewable c) Equally distributed	b) Non renewable d) None of the above	
10.	India has the largest share of which of the follo a) Manganese b) Mica		d) Diamond
11.	Fluoride though is an effective agent to preve limit of a) 0.5 mg/lt of water c) 5 mg/lt of water	b) 1.5 mg//t of water d) 15 mg//t of water	maximum permissio
12.	Carbon content is higher in a) Soil b) Atmosphere	c) Water	d) Lining matter
13.	Cholera and typhoid are causes by a) Worms b) Virus	c) Bacteria	d) Fungus
14.	The required iron content in drinking water as s a) 300 mg//t b) 30 mg//t	specified by BIS is c) 3 mg/lt	d) 0.3 mg//t
15.	Major source of fluoride is  a) River water b) Tooth paste	c) Ground water	d) Food products
16.	LPG is a mixture of a) N <sub>2</sub> and H <sub>2</sub> S c) Propane and butane	b) CO <sub>2</sub> and N <sub>2</sub> d) Methane and ethane	in products
17.	Nuclear fusion reaction occurs in a) The sun b) Stars	c) Hydroga	
18.	Choose the sequence of production of electricity i) Electrolysis of water ii) Performing a fuel cell reaction iii) Storage of hydrogen a) (i), (ii), (iii) b) (i), (iii) and (ii)	y from hydrogen	d) All the these
19.	Chernobyl nuclear disaster occurred in the year a) 1984 b) 1952	c) (ii), (iii) and (i)	d) (ii), (i) and (iii)
20.	Which resources are inexhaustible? a) renewable b) fossil fuel	c) 1986	d) 1987
21.	Direct conversion of solar energy is attained by a) Solar photo voltaic system c) Solar thermal system	c) non renewable b) Solar diesel hybrid syst d) Solar air heater	d) mineral

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"CIL

38.	"Earth day" is observed on	c) April 22 <sup>nd</sup>	d) 1" January
	a) 1 <sup>st</sup> December b) 5 <sup>st</sup> Julie	ent of India on en	vironmental education
	a) 1 <sup>st</sup> December b) 5 <sup>st</sup> June  The committee which submitted its report to	o government of the	· VII
39.	The committee which submittee is	b) Menta Committee	
2	a) Tiwari Committee	d) Agarwal Committee	
	c) Banerjee Committee		
	BOD means	b) Chemical oxygen de	emand
	a) Biochemical oxygen demand	d) All of these	
	e) Biophysical oxygen demand	(i) All 01 (i)	
41.	The pH value of the acid rain water is	0) 8.5	d) 7.5
	a) 5.7 b) 7.0	0/0.5	
42	O l d'il i i a a a a a a a a a a a a a a a a a		
42.	Ozone layer thickness is measured in	o Decibels	d) Dobson units
	a) PPM b) PPB	c. Decibers	d) Dooson anns
43.	Eutrophication is		
45.	a) An improved quality of water in lakes		
	b) A process in carbor cycle		
	c) The result to accumulation of plant nutrie	onto in wotor be dire	
	d) A water purification technique.	ents in water bodies	
	d) A water purification technique.		
44.	Wind energy generation depends on		
	a) direction of wind	h) velocity of	
	c) humidity	b) velocity of wind. d) precipitation	
		d) precipitation	
45.	Nitrate concentration above 45 mg/lt cause.	S	
	a) Vomiting	b) Dysentery	
	c) Typhoid	d) Blue Baby disease	
46.	The country of the co	e level decreases below	
	a) 200 Du b) 2000 Du	c) 20 Du	
47.	A cid rain can be controlled by		d) 2 Du
47.	Acid rain can be controlled by a) reducing SO <sub>2</sub> and NO <sub>2</sub> emissions		(0)
	c) Increasing number of lakes	b) reducing CO and by	a.
	c) mercasing number of takes	b) reducing CO and hy d) None of these	drocarbons emissions
48.	Animal husbandry may result in		
	a) Global warming	b) 4 - ' 1	
	c) Ozone depletion	b) Acid rain	
		d) None of these	
49	1100113 1110		
	a) HFC b) CFC	c) NFC	
50	Ozona bolo was Control		d) Hydrocarbons
30	a) A marie		. mocarbons
	b) Antartica	c) Tropical region	
		* * * * *	d) Africa.

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