



SRI YN COLLEGE (AUTONOMOUS) NARSAPUR

(Affiliated to Adikavi Nannaya University)

Thrice accredited by NAAC at 'A' Grade

Recognized by UGC as "college with Potential for Excellence"

**II BSc SEMISTER - III SKILL DEVELOPMENT COURSE SYLLABUS - ENVIRONMENTAL
EDUCATION**

FOR 2020 - 2023 BATCH, WITH EFFECT FROM (2020 -2021)CBCS PATTERN.

Course objective: A Generic Course intended to create awareness that the life of human beings is an integral part of environment and to inculcate the skills required to protect environment from all sides.

Learning outcomes: On completion of this course the students will be able to

- Understand the nature, components of an ecosystem and that humans are an integral part of nature.**
- Realize the importance of environment, the goods and services of a healthy biodiversity, dependence of humans on environment.**
- Evaluate the ways and ill effects of destruction of environment, population explosion on ecosystems and global problems consequent to anthropogenic activities.**
- Discuss the laws/ acts made by government to prevent pollution, to protect biodiversity and environment as a whole.**
- Acquaint with international agreements and national movements, and realize citizen's role in protecting environment and nature.**

Unit 1: Environment and Natural Resources:

(06hrs)

- 1. Multidisciplinary nature of environmental education; scope and Importance.**
- 2. Man as an integral product and part of the Nature.**
- 3. A brief account of land, forest and water resources in India and their importance.**
- 4. Biodiversity: Definition; importance of Biodiversity - ecological, consumptive, productive, social, ethical and moral, aesthetic, and option value.**
- 5. Levels of Biodiversity: genetic, species and ecosystem diversity.**

Unit-2: Environmental degradation and impacts:

(10hrs)

- 1. Human population growth and its impacts on environment; land use change, land degradation, soil erosion and desertification.**
- 2. Use and over-exploitation of surface and ground water, construction of dams, floods, conflicts over water (within India).**

3. Deforestation: Causes and effects due to expansion of agriculture, firewood, mining, forest fires and building of new habitats.

4. Non-renewable energy resources, their utilization and influences.

5. A brief account of air, water, soil and noise pollutions; Biological, industrial and solid wastes in urban areas. Human health and economic risks.

6. Green house effect - global warming; ocean acidification, ozone layer depletion, acid rains and impacts on human communities and agriculture.

7. Threats to biodiversity: Natural calamities, habitat destruction and fragmentation, over exploitation, hunting and poaching, introduction of exotic species, pollution, predator and pest control.

Unit 3: Conservation of Environment:

(10hrs)

Concept of sustainability and sustainable development with judicious use of land, water and forest resources; a forestation.

1. Control measures for various types of pollution; use of renewable and alternate sources of energy.
2. Solid waste management: Control measures of urban and industrial waste.

3. Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity.

4. Environment Laws: Environment Protection Act; Act; Wildlife Protection Act; Forest Conservation Act.

5. International agreements: Montreal and Kyoto protocols; Environmental movements: Bishnois of Rajasthan, Chipko, Silent valley.

Suggested activities to learner: (4 hours)

1. Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc

2. Visit to a local polluted site-Urban/Rural/Industrial/Agricultural site.

3. Study of common plants, insects, birds and basic principles of identification.

4. Study of simple ecosystems-forest, tank, pond, lake, mangroves etc.

5. Case study of a Forest ecosystem or a pond ecosystem.

Suggested text book:

1. Erach Barucha (2004) Text book of Environmental Studies for Undergraduate courses (Prepared for University Grants Commission) Universities Press.

2. Purnima Smarath (2018) Environmental studies Kalyani Publishers, Ludhiana

Reference books:

1. Odum, E.P., Odum, H.T. & Andrews, J. (1971) Fundamentals of Ecology. Philadelphia: Saunders.

2. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. (2011). Environmental and Pollution Science. Academic Press.

3. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. (2012) Environment. 8th edition. John Wiley & Sons.

4. Singh, J.S., Singh, S.P. and Gupta, S.R. (2014) Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.

5. Sengupta, R. (2003) Ecology and economics: An approach to sustainable development. OUP.
6. Wilson, E. O. (2006) The Creation: An appeal to save life on earth. New York: Norton.
7. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll (2006) Principles of Conservation Biology. Sunderland: Sinauer Associates.

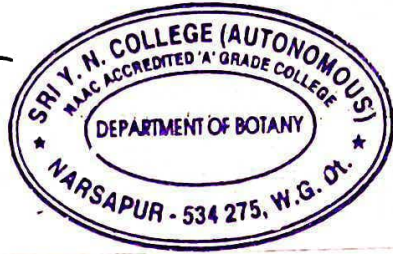
BLUE PRINT:

S.no	UNIT	SHORTS	ESSAYS
1	I	2	1
2	II	3	2
3	III	3	2

APPROVER

Ashasudha Zeda

A. P. K. S. S. S. S.



Ashasudha Zeda
 CHAIRMAN
 BOARD OF STUDIES
 DEPARTMENT OF BOTANY
 SRI Y. N. COLLEGE (Autonomous)
 (NAAC Accredited 'A' Grade College)
 NARSAPUR - 534 275, W.G. Dt.,



Life Skill Course
Semester – III
Environmental Education
Question Bank

Short Answer Questions (05M)

1. Biodiversity. జీవ వైవిధ్యం
2. Importance of Forests. అడవుల యొక్క ప్రాముఖ్యత
3. Biodiversity importance. జీవ వైవిధ్యం యొక్క ప్రాముఖ్యత
4. Uses of Land resources. భువనరుల యొక్క ఉపయోగాలు
5. Noise Pollution. ధ్వని కాలుష్యం
6. Soil Pollution. భౌమ / నెల కాలుష్యం
7. Desertification. ఎడారికరణ
8. Global Warming. భౌగోళ వేడిమి
9. Green house effect. హరిత గృహ ప్రభావము
10. Land degradation. భూమి క్షీణత
11. Types of pollution - control measures.
కాలుష్యం లో రకాలు - నియంత్రణ పద్ధతుల.
12. In-Situ conservation. స్వస్థలం రక్షణ
13. Ex-Situ conservation. బాహ్య రక్షణ
14. Renewable resources. పునరుత్పాదక శక్తి వనరులు
15. Chipko movement. చిప్ కో కదలిక
16. Silent valley movement. నిశ్శబ్ద లోయ ఉద్యమం



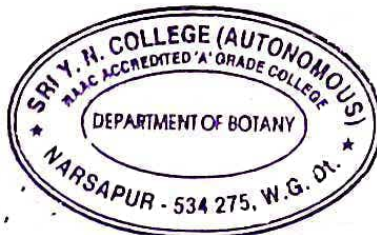
Life Skill Course
Semester – III
Environmental Education
Question Bank

Essay Questions (10M)

1. Define Environmental Education. Write its scope & Importance.
పర్యావరణ విద్య అనగానేమి? దాని ప్రాముఖ్యత మరియు పరిధిని గూర్చి వ్రాయుము.
2. Write an account on land resources & their importance
భూ వనరుల ప్రాముఖ్యతను గూర్చి వివరింపుము.
3. Explain human population growth and its impact on environment.
మానవ జనాభా పెరుగుదల వలన కలిగే పర్యావరణ విపత్తుల గురించి వ్రాయండి.
4. Define Deforestation. Explain causes & affects of deforestation.
అడవుల నరికివేతకు గల కారణాలను దాని వలన కలుగు నష్టాలను విశదీకరించుము.
5. Discuss about air pollution.
వాయు కాలుష్యమును గూర్చి వివరింపుము.
6. Discuss about water pollution, its effects and control measures.
నీటి కాలుష్యం యొక్క కారణాలు, ప్రభావాలు మరియు నియంత్రణ చర్యల గూర్చి వివరింపుము.
7. Discuss about Afforestation.
అడవుల పునః సృష్టి (లేదా) అడవుల పెంపకం గూర్చి వ్రాయండి.
8. Explain control measures of various types of pollution.
వివిధ రకాలైన కాలుష్యము యొక్క నియంత్రణ పద్ధతులను గూర్చి వివరించండి.
9. Explain various types of conservation methods of Biodiversity.
జీవ వైవిధ్యం నందు గల వివిధ రకాలైన సంరక్షణ పద్ధతులను / వ్యూహాలను గూర్చి వ్రాయండి.
10. Explain the Environmental protection act.
పర్యావరణ పరిరక్షణ చట్టం గూర్చి వ్రాయండి.

APPROVED

Ashakuthe Reddy
A. R. K. Srinivas



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II. B.S.C SEMESTER – III – LIFE SKILL COURSE

ENVIRONMENTAL EDUCATION

TIME: 2HRS

MAX MARKS: 50M

SECTION – A

ANSWER ANY 4 QUESTIONS. EACH QUESTION CARRIES 5 MARKS

4X5=20M

1. Biodiversity. జీవ వైవిధ్యం
2. Impotance of Forests. అడవుల యొక్క ప్రాముఖ్యత
3. Soil Erosion భూమి క్షీణత
4. Write ant 2 kind of pollutions. 2 రకాల కాలుష్యాల గురించి వ్రాయండి.
5. Green house effect. హరిత గృహ ప్రభావము
6. Types of pollution - control measures. కాలుష్యం లో రకాలు - నియంత్రణ పద్ధతుల.
7. In-Situ & Ex-Situ conservation. స్వస్థల & బాహ్యస్థల సంరక్షణ
8. Chipko & Silent valley movement. చిప్ కో & నిశబ్ద లోయ ఉద్యమం

SECTION – B

ANSWER ANY 3 QUESTIONS. EACH QUESTION CARRIES 10 MARKS

3X10=30M

1. Define Environmental Eduation. Write its scope & Importance.
పర్యావరణ విద్య అనగానేమి? దాని ప్రాముఖ్యత మరియు పరిధిని గూర్చి వ్రాయుము.
2. Explain human population growth and its impact on environment.
మానవ జనాభా పెరుగుదల వలన కలిగే పర్యావరణ విపత్తుల గురించి వ్రాయండి.
3. Define Deforestation. Explain causes & affects of deforestation.
అడవుల నరికివేతకు గల కారణాలను దాని వలన కలుగు నష్టాలను విశదీకరించుము.
4. Explain the Environmental protection act.
పర్యావరణ పరిరక్షణ చట్టం గూర్చి వ్రాయండి.
5. Explain various types of conservation methods of Biodiversity.
జీవవైవిధ్య సంరక్షణ పద్ధతులను/నమూనాలను గుర్తించండి.