Т	R	2	A	5	2	4	1	1	
	_	4	_	u	4	_			

Reg.	Мо	 •

Name:	***************************************
-------	---

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024 2022 ADMISSIONS REGULAR

6/2 PARTY 194

SEMESTER V - CORE COURSE (PHYSICS)

PH5B05B18 - Environmental Physics and Human Rights

Time: 3 Hours Maximum Marks: 60

Part A

I. Answer any Ten questions. Each question carries 1 marks

(10x1=10)

- Explain the 10 % energy rule of an ecosystem.
- 2. Explain briefly a water shed management system.
- 3. List the causes of floods and droughts.
- 4. Distinguish between endangered and endemic species.
- 5. Distinguish between degradable and nondegradable pollutants.
- 6. List the important contents of the Environment Protection Act.
- 7. Write a note on vermi-composting.
- 8. Express the relation for the power density of wave energy.
- 9. Define the term solar constant.
- 10. What is a parabolic reflector?
- 11. Draw the spectral distribution of solar energy.
- 12. State the importance of Article 21A.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- Explain the principles of sustainable development.
- 14. What do you mean by sustainable water management? Explain briefly.
- 15. Discuss the environmental effects of extracting mineral resources.
- 16. Discuss the threats to biodiversity.
- 17. Explain the different aspects of sound pollution.
- 18. Discuss the environmental impact assessment.
- 19. What is a fuel cell? Explain it's working.
- 20. Explain solar desalination and solar dryer.
- 21. Give an account of PV sun-tracking systems.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

- 22. Explain the use and over-exploitation of forest resources.
- 23. Explain the causes and control measures of waterpollution.
- 24. Explain in detail different types of optical concentrators.
- 25. Mention the basic human rights for prisoners. Describe the important enactments and rules regarding the rights of prisoners.