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B.Tech / M.Tech (Integrated) DEGREE EXAMINATION, NOVEMBER 2024

Fifth Semester

21EEO306T - SUSTAINABLE DEVELOPMENT PRACTICES

(For the candidates admitted from the academic year 2021-2022 to 2023-2024)

Note:

(i) Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

(ii) Part - B & Part - C should be answered in answer booklet.

Time: 3 hours Max. Marks: 75

$PART - A (20 \times 1 = 20 Marks)$ Marks BL CO PO Answer ALL Questions Which of the following is NOT typically considered a key element of social 1 sustainability? A)Reducing gender inequality P) Promoting equal access to healthcare and education C) Addressing climate change and carbon D) Ensuring social justice and inclusion emissions for marginalized communities The United Nations has established a total Sustainable Development Goals (SDGs) 2. 1 1 7 A) 15 B) 16 Q117 D)18 The 2030 Agenda for Sustainable Development (SDGs) acknowledge that all governments must promote action in the important areas listed as A)People, Planet, Prosperity, Peace, and B) People, planet, wealth, plants, and Partnership. collaboration (C) People, prosperity, peace, and planet D) People, Planet, Prosperity, Peace, and Progress. In India, National Action Plan on Climate Change (NAPCC) was launched in the year A)2022 B) 2002 C) 2020 D)2008 The progress on sustainable development goals (SDGs) is monitored by NITI Aayog using which Index A)SDG NITI Index B) SDG development Index C) SDG Progress Index D)SDG India Index Under MGNREGA, what is the minimum number of days of wage employment 1 guaranteed in a financial year to every household 41100 Days B) 120 Days C) 90 Days D) 180 Days What was the new extreme poverty line set by the World Bank in September 2022? A181.90 B) \$2.00 C1\$2.15 D)\$2.50 What does "ODF" stand for in the context of ODF Plus villages? A) Open Drinking Facilities Corganized Development Framework By Open Defecation Free D) Operational Development Facility Page 1 of 3

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9.	Kasturba Gandhi Balika Vidyalaya (KGB groups in transitioning smoothly from eleme A)College level C)Pre-primary level	V) aim to help girls from disadvantaged entary to which level of education? B) Secondary and up to Class XII D) Vocational education	1	1	2	7	200
10.	What is the main focus of Sustainable Devel	opment Goal (SDG) 5?	1	1	2	7	20.
	A) Reducing poverty (A) Achieving gender equality and empowering all women and circle.	B) Ensuring access to clean water and					
	all women and girls	g D) Fromoting quality education				-	
11.	What percentage of the overall gender gap hat A) 50.4% C) 85.56%	as India closed as per the latest report? B) 70.42% D) 64.3%	1	1	2	7	21 a
12.	What is the health cover provided by PM-JA family per year?		1	1	2	1	
	A)Rs. 5 lakhs C)Rs. 10 lakhs	B) Rs. 7 lakhs D) Rs. 3 lakhs					t
4	What is the measurement unit for PM 2.5 and Parts per million © Micrograms per cubic meter	PM 10? B) Milligrams per cubic meter D) Micrograms per meter	1	1	3	1	22 a
14.	What is the Pollution Index (PI) score range category?		1	1	3	7,	b
	A) 0 to 20 C) 60 and above	B) 41 to 59 D) 21 to 40					23 a
	When was the draft of the National Resource of Environment, Forest and Climate Change is A) 2017	Efficiency Policy released by the Ministry n India? B) 2018 D) 2020	1 .	1	3	7	b. 24 a.
16.	When were the recent E-Waste (Management) A) 2nd November, 2021 C) 2nd November, 2023	Rules, notified in India?	1	1	3	7	b.
17.	Which ministry in India is primarily responsi related to Public-Private Partnerships (PPPs)? A)Ministry of Road Transport and Highways C)Ministry of Rural Development		1	1 3	3 7	7	25 a. l r b. I
18.	What role does NITI Aayog play in the localiz A) Monitors SDGs across India	cation of SDGs in India? B) Conducts reviews and facilitates learning among states	1	1 3	7		Si
	C) Restricts states from implementing their initiatives	ir D) Indexing the current status of National-level goals					26. Ex
19.	. What is India's rank in the Human Developm territories?	nent Index (HDI) out of 193 countries and	1	3	1		an go
	A)109 C)140	D) 134 D) 173					27. Exp fos- inte

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A) The share of agriculture in GDP increasedB) Agriculture's share in GDP decreased to 35% in 2022-23 due to a drop in agricultural output C) Agriculture's share declaination is due to D) The share of agriculture in India's rapid growth in industrial and service GDP remains constant at 15% sectors				
PART - B (5 x 8 = 40 Marks) Answer ALL Questions	Mark	s BL	CO	PC
21 a. Enumerate the contributions of the private sector, particularly investors and industries, to sustainable development. How can businesses align profitability with sustainability goals?	8	1	1	7
(OR)	8	1	1	7
b. Discuss the role of people as stakeholders in sustainable development. How can community engagement and grassroots initiatives promote sustainable practices?				
22 a. Highlight the importance of energy sources and supply in India's development. What steps should be taken to address the energy deficiency? (OR)	8	1	2	. 1
b. Articulate the housing crisis in India and suggest potential solutions to address inadequate housing for urban and rural populations	8	1	2	7
23 a.Discuss in detail the significance of skill development programs in reducing unemployment and promoting inclusive growth in India. (OR)	8	1	2	7
b. Enumerate the importance of people's participation in decision-making processes for sustainable development. How can this be effectively implemented?	. 8	1	2	7
24 a. Explain the importance of preserving forests and water sources for environmental protection. How can policies and community actions help safeguard these resources? (OR)	. 8	1	3	7
b. Examine the significance of pollution control measures in reducing environmental degradation. What technological advancements have enhanced pollution control efforts?	8	1	3	1
25 a. Identify the future trends in integrated approaches for sustainable development. How might technological innovations and global cooperation shape sustainable growth? (OR)	8	1	3	7
b.Discuss a case study where an integrated approach to sustainable development was successfully implemented. What lessons can India learn from this example?	8	1	3	7
PART - C (1 x 15 = 15 Marks) Answer ANY ONE Question	Mark	s BL	co	PC
26. Examine the growing issue of unscientific waste management in Indian cities. Discuss the key challenges, including infrastructure, policy implementation, public awareness and the role of modern waste management techniques, public participation, and government policies.		1	2	1
27. Explain how sustainable energy sources can help mitigate the environmental impacts of fossil fuel consumption. Highlight the role of government policies, innovation, and international efforts in promoting renewable energy adoption.		1	3	7

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