(6 pages)	Reg. No. :	2.			ource are also known as	3
Code N	O.: 20456 E Sub. Code: CNPH 32		(a)	commercial		
Couc I	Sub. Code Long Ave		(b) (c)	non-commercial non-conventional		
U.	.G. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.		(d)	none		
	Third Semester	3.	Foss	il fuel is also knov	vn as	
			(a)	lubricating fuel	(b) liquid fuel	
-	Physics		(c)	solid fuel	(d) mineral fuel	
	n Major Elective – APPLIED PHYSICS	4.	The percentage of global fossil fuel reserves are found in India is			
(Fo	or those who joined in July 2021 – 2022)		(a)	20%	(b) 17%	
Time: Th	ree hours Maximum: 75 marks	•	(c)	6.85%	(d) 4%	
	PART A — $(10 \times 1 = 10 \text{ marks})$	5.	Bion	mass is a ———	energy source.	
	Answer ALL questions.		(a)	renewable		
		•	(b)	non-renewable		
	Choose the correct answer.		(c)	thermal		
1. —	is the example for secondary energy		(d)	none	•	
sou		6.		biogas mixture c	ontaining —	-% of
(a)	coal (b) natural gas		CO,	2 •		
			(a)	30 to 40	(b) 10 to 15	
(c)	nuclear energy (d) wind energy		(c)	5	(d) 2	
				Pa	ge 2 Code No.: 204	156 E
				* .		
7. Sol	ar cooker's are			PART B — (5	\times 5 = 25 marks)	
(a)	used to heat water					- \
(b)	used to heat air		Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 250 words.			
(c)	used to cool water					
(d)	used to cool air	11.	(a)	State convention	onal and non conven	tional
8. Sol	ar radiation consists of		(4)	energy sources.		
(a)	infra-red region				Or	
(b)			(b)		ie advantages of rene	wahla
(c)	both (a) and (b)		(b)	energy source.	le advantages of rene	waoie
(d)		12.	. (0)	State the times	of power in Fossil fuels	
	그리고 하게 하다면 되는 사람이 하는 그렇게 그렇게 되었다.	12.	(a)	State the types	of power in Possif Ideas	
9. "Ea (a)	arth day" is celebrated on 1st December				Or	
(b)			(b)	Write briefly st	atistical details in fossi	fuels.
(b) (c)	그 작은 마음이 없다면 하는 것이 없는 사람들이 되었다.			TIV Mary all and a		
(d)	22nd Anril	13.	(a)	write a snort n	ote on Biomass energy.	
(α)	22nd April	13,	(a)	write a short n	ote on Biomass energy.	
13.13	1st January -	13.			Or	
10. Taj	시나가 마다 하는데 그녀를 하고 어머니라 모르는데 하는 물어졌다.	13.	(a) (b)	Write any		and
	1st January - j Mahal at Agra may be damaged by	13.	(b)	Write any disadvantages	Or five advantages	
(a)	1st January j Mahal at Agra may be damaged by Sulphur dioxide		(b)	Write any disadvantages	Or five advantages of biomass energy. erations of a solar pone	
(a) (b)	1st January - j Mahal at Agra may be damaged by Sulphur dioxide Chlorine		(b) (a)	Write any disadvantages of Describe the or	Or five advantages of biomass energy. perations of a solar pond Or	
(a) (b) (c)	1st January j Mahal at Agra may be damaged by Sulphur dioxide Chlorine Hydrogen Oxygen		(b)	Write any disadvantages of Describe the or	Or five advantages of biomass energy. erations of a solar pone	
(a) (b) (c)	1st January j Mahal at Agra may be damaged by Sulphur dioxide Chlorine Hydrogen		(b) (a)	Write any disadvantages of Describe the or	Or five advantages of biomass energy. erations of a solar pone Or ciple for a solar cell. eage 4 Code No.: 20	1.

15. (a) Explain the advantages of Geothermal energy.

Or

(b) Describe the basic components of wind energy conversion system.

PART C —
$$(5 \times 8 = 40 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write an essay about various forms of energies.

Or

- (b) Write an essay about renewable and conventional energy sources.
- 17. (a) Discuss about the various availability of energy resources.

Or

(b) Write briefly application of Fossil fuels.

Page 5 Code No.: 20456 E

18. (a) Write an essay about the generation of Biomass energy.

Or

- (b) Explain the constructional and working of Deenbandhu Biogas plants with diagram.
- 19. (a) Write briefly notes for applications of solar energy.

Or

- (b) Explain in merits and limitations for a solar cooker.
- 20. (a) Write an essay about geo thermal energy.

Or

(b) What are the types of OTEC power plants? Describe their working.

Page 6 Code No.: 20456 E