(6 pages)		Reg	Reg. No.:					
Code No. : 30569 E			Sub. Code : SNPH 3 B					
U.G. (CBCS) DEGREE EXAMINATION, NOVEMBER 2020.								
Third Semester								
Physics								
Non-Major Elective — APPLIED PHYSICS								
(For those who joined in July 2017 onwards)								
Time	: Thr	ee hours		Maximum : 75 marks				
PART A — $(10 \times 1 = 10 \text{ marks})$								
Answer ALL questions.								
Choose the correct answer:								
1.	sourc		n as	conventional energy				
	(a)	Oil	(b)	Wind				
	(c)	Bio-mass	(d)	Geo-thermal				
2.	————— is an example of secondary energy sources.							
	(a)	Wind energy	(b)	Nuclear energy				
	(c)	Natural gas	(d)	Coal				
1.	Choo source (a) (c) source (a)	PART A — (10 × 1) Answer ALL of the set the correct answer is known is known is known is set. Oil Bio-mass ——————————————————————————————————	1 = 10 quest er: n as (b) (d) mple (b)	O marks) ions. conventional energy Wind Geo-thermal of secondary energy Nuclear energy				

3.			y, Uranium and water are commonly energy sources.			
	(a)	Conventional	(b)	Commercial		
	(c)	Non-Commercial	(d)	Both (a) and (b)		
4.	In L	Latin 'Igneous' means ————.				
	(a)	Wood	(b)	Fire		
	(c)	Earth	(d)	Rock		
5.	The	The average fermentation period for cow dung is ———————————————————————————————————				
	(a)	10	(b)	30		
	(c)	100	(d)	150		
6.	38%	38% of energy is obtained from ————.				
	(a)	Uranium	(b)	Coal		
	(c)	Wood	(d)	Dung		
7. Solar Cooker's are						
	(a)	used to heat water				
	(b)	used to heat air				
	(c)	used to cool water				
	(d)	used to cool air				
		Page	2 (Code No. : 30569 E		

8.	Modern Solar cooker's are made up of ———.								
	(a)	Semiconductor materials							
	(b)	Metals							
	(c)	Indium							
	(d)	Aluminium							
9.	The	he following is the thermal source							
	(a)	Valcono	(b)	Sand					
	(c)	Clay	(d)	Earth quake					
10.	Ener	Energy in wind is							
	(a)	Solar Energy	(b)	Tidal Energy					
	(c)	Potential Energy	(d)	Kinetic Energy					
	PART B — $(5 \times 5 = 25 \text{ marks})$								
A	Answer ALL questions, choosing either (a) or (b).								
	Each answer should not exceed 250 words.								

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

Or

(b) Describe about conventional energy sources.

Page 3 Code No.: 30569 E

12. (a) Write the merits and demerits of Coal, Oil and natural gas.

Or

- (b) Write a short notes on Coal.
- 13. (a) Write the application of Bio-gas.

Or

- (b) State the advantages of Biomass as a energy.
- 14. (a) Enumerate the advantages and disadvantages of solar cell.

Or

- (b) Explain about Solar heater.
- 15. (a) What are the disadvantages of Geothermal energy?

Or

(b) Write notes about energy from waves and tides.

Page 4 Code No.: 30569 E

[P.T.O]

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) State the advantages and limitation of renewable energy sources.

Or

- (b) Discuss about alternate energy sources can meet the defect due to world's energy sources.
- 17. (a) Write about the existence of Oil and gas resources and its application.

Or

- (b) Give the statistical details about availability of Coal, Oil and natural gas.
- 18. (a) Explain the construction and working of Deenbandhu model gas plant.

Or

- (b) Discuss about Bio-mass conversion process.
- 19. (a) Describe the construction and working of box type Solar cooker.

Or

- (b) Explain about:
 - (i) Solar Pond
 - (ii) Crop dryer.

Page 5 Code No.: 30569 E

20. (a) Explain in detail about Ocean Thermal Energy Conversion Technology.

Or

(b) Discuss about the main consideration in selecting a note for wind generation.

Page 6 Code No.: 30569 E