STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86

(For candidates admitted during the academic year 2016 – 2017& thereafter)

SUBJECT CODE: 16VS/VA/EE15

B.Voc. DEGREE EXAMINATION, NOVEMBER 2022 SUSTAINABLE ENERGY MANAGEMENT FIRST SEMESTER

COURSE : ALLIED CORE

PAPER : ENERGY ECONOMICS

TIME : 3 HOURS

MAX.MARKS:100

(30x1=30)

SECTION – A

ANSWER ALL QUESTIONS:

I CHOOSE THE CORRECT ANSWER:

1.	Inexhaustible energy set	ources are known as	Energy			
	a) commercial	b) renewable	c) primary	d) secondary energy		
2.	Which mineral is used for generating atomic or nuclear power?					
	a) coal	b) bauxite	c) uranium	d) copper		
3.	"Fossil fuels" refers to:					
	a) coal.	b) oil.	c) natural gas.	d) All of the above.		
4.	Photovoltaic energy is	uels" refers to: b) oil. c) natural gas. d) All of the above. taic energy is the conversion of sunlight into energy energy ical b) electrical c) mechanical d) thermal in method of natural gas transportation is: ers b) truck c) pipeline d) bags use gases b) carbon dioxide c) water vapour d) all the above				
	a) Chemical	b) electrical	c) mechanical	d) thermal		
5.	The main method of natural gas transportation is:					
	a) tankers	b) truck	c) pipeline	d) bags		
6.	Greenhouse gases					
	a) methane	b) carbon dioxide	c) water vapour	d) all the above		
7.	Indian per capita energy consumption is of the world average.					
	a) 4%	b) 20%	c) 1%	d) 10%		
8.	offers highest load.					
	a) Mixer	b) Television	c) computer	d) Induction stove.		
9.	Which fuel dominates the energy mix in Indian energy scenario?					
	a) a) Oil	b) Natural gas	c) Coal	d) Nuclear		

II FILL IN THE BLANKS:

- 10. One unit of electricity is equal to _____ watts hour
- 11. Energy sources that are available in the market are called as _____
- 12. Natural gas is found in _____

- 13. Gases that trap heat in the atmosphere are called _____
- 14. Nuclear power stations situated at _____ and _____ in Tamilnadu
- 15. Air pollution is mainly caused by _____
- 16. If demand ______and supply remains unchanged, a surplus occurs, leading to a lower equilibrium price
- 17. If demand increases and supply remains unchanged, _____, leading to a higher equilibrium price

III STATE WHETHER TRUE OR FALSE

- 18. The TNEB bill in Tamil Nadu is monthly
- 19. Biogenic gas was formed by bacterial decay at shallow depth.
- 20. One Joule is greater than one Calorie.
- 21. One GW is equal to 10^8 Watts
- 22. CNG is better than LPG
- 23. ONGC is Oil and natural gas corporation

IV ANSWER THE FOLLOWING IN ONE OR TWO LINES

- 24. What does equity mean in economics?
- 25. What is climate change exactly?
- 26. Give two examples of green energy.
- 27. Define energy elasticity.
- 28. What is meant by energy in economics?
- 29. How much renewable energy capacity is aimed by 2022 by MNRE?
- 30. Expand CPCB

SECTION – B

ANSWER ANY SIX QUESTIONS:

- 31. What do you understand by monopoly and oligopoly?
- 32. How do you find the demand curve?
- 33. Discuss the future of natural gas markets in India.
- 34. Explain the tradeoff advantages and disadvantages of nuclear energy.
- 35. Write a note on the Energy Conservation Act 2001
- 36. Elucidate the challenges and opportunities in renewable energy?

(6x5=30)

(2x20=40)

- 37. Discuss the social and economic impact of clean technology.
- 38. Discuss the various causes of energy crisis.

SECTION – C

ANSWER ANY TWO QUESTIONS:

- 39. Explain the various issues of current climate change and discuss responses to it.
- 40. Write a detailed note on the prospects and future of i) electricity ii) coal iii) renewable energy and iv) nuclear power.
- 41. Critically analyze the energy policies of India and evaluate the recent budget in terms of renewable energy.
- 42. Calculate the monthly electrical consumption in KWh of a house having following specifications. Explain few conservation techniques to save energy.

S.NO	Appliances	Numbers	Power consumption	Usage In Hours per day
			(watts)	
1	Lamp	10	40	10
2	Fan	4	60	12
3	Refrigerator	1	350	24
4	Ac	2	1500	5
5	Water heater	1	2000	1/2
6	Television	1	150	6
7	Kitchen appliances	Includes induction	1000	1
		stove, mixer and		
		grinder etc.		
