			Marks	BL	CO	PO

b. Explain briefly about rain gauge type with neat sketch. — 10 3 3 1

29. a. Explain briefly the concept of energy audit. — 10 5 4 1

(OR)

b. Discuss the use of renewable resource – hydrothermal and geothermal energy. — 10 5 4 1

30. a. Explain briefly about Clean Development Mechanism (CDM) with neat sketch. — 10 5 5 1

(OR)

b. Explain briefly about the important points of intergovernmental panel on climate change and assessment reports. — 10 5 5 1

* * * * *

B.Tech. DEGREE EXAMINATION, NOVEMBER 2022
Sixth / Seventh Semester

18CEO406T – GLOBAL WARMING AND CLIMATE CHANGE
(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

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** should be answered in answer booklet.

Time: 2½ Hours   Max. Marks: 75

PART – A (25 × 1 = 25 Marks)
Answer **ALL** Questions

	Marks	BL	CO	PO

1. Large quantities of _____ can be released to the atmosphere through geologic process. — 1 1 1 1
   (A) Carbon   (B) Nitrogen
   (C) Argon   (D) Chlorine

2. Identify the type of green house gas, which is caused by the decomposition of plant matter? — 1 1 1 1
   (A) Sulphur di-oxide   (B) Methane
   (C) Carbon-di-oxide   (D) Carbon monoxide

3. Without the earth's atmosphere the earth's average temperature would be well below the _____ temperature of water. — 1 1 1 1
   (A) Boiling   (B) Freezing
   (C) Vapourization   (D) Boiling and freezing

4. Which of the following determines amount of water vapour in the atmosphere? — 1 1 1 1
   (A) Clouds   (B) Gas
   (C) Solar radiation   (D) Humidity

5. The mixture of primary and secondary pollutant gases forms _____. — 1 1 1 1
   (A) Ozone layer depletion   (B) Green house gases
   (C) Photo chemical smog   (D) El nino effect

6. Ocean water had high O^{16} isotope which means the temperature of that climate is — 1 1 2 1
   (A) High   (B) Low
   (C) Froze   (D) Ice accumulation

7. What is albedo? — 1 2 2 1
   (A) The ratio of incident ray and reflected rays
   (B) The ratio of incident and refracted rays
   (C) The ratio of incident and diffracted rays
   (D) The ratio of incident and transmitted rays

8. Heat waves are occurring in the following region due to climate change   1 2 2 1
   (A) Tropical   (B) Temperature
   (C) North pole   (D) South pole

9. How much earth tilt variation happening in Milankovitch chart?   1 2 2 2
   (A) 23.5° - 22.5°   (B) 22.5° - 24.5°
   (C) 24.5° - 27.5°   (D) 21.5° - 24.5°

10. Which of the following is responsible for coral bleaching?   1 2 2 2
    (A) Sea level rise   (B) Ice melting
    (C) Increase salinity   (D) Ocean acidification

11. The tourism sector depends heavily on   1 2 3 1
    (A) Agriculture   (B) Culture and heritage
    (C) Forest   (D) Modern development

12. In thermometer, unlike water mercury   1 2 3 1
    (A) Freezes at 39°C   (B) Boils at 357°C
    (C) Freezes at 357°C   (D) Boils at 39°C

13. Which one of the following has high albedo?   1 2 3 1
    (A) Water   (B) Vegetation
    (C) Ice   (D) Soil

14. Climate change mitigation involves   1 2 3 2
    (A) Increase emission   (B) Increase greenhouse gas level
    (C) Decrease greenhouse gas level (D) Stabilize greenhouse gas level

15. The value of pH 8.1 is for   1 1 3 1
    (A) Distilled water   (B) Sea water
    (C) Acid rain   (D) Liquid rain

16. Which of the following is not considered to be a source of renewable energy?   1 2 4 1
    (A) Hydro power   (B) Wind
    (C) Natural gas   (D) Soil

17. Any action taken to completely remove (or) reduce the long term threats and risks to human life and properties from climate change is?   1 2 4 1
    (A) Weather adaptation   (B) Climate adaptation
    (C) Actual (or) expected climate stimuli   (D) Climate change mitigation

18. Carbon sequestration is known as   1 2 4 1
    (A) Carbon storage   (B) Carbon release
    (C) Carbon floats   (D) Carbon detoriation

19. In India feedstock for biodiesel is   1 2 4 1
    (A) Jatropha   (B) Palm oil
    (C) Rapeseed oil   (D) Canola

20. Intergovernmental panel on climate change, the first assessment report (FAR) of the (IPCC) was completed in?   1 2 4 1
    (A) 1998   (B) 1999
    (C) 1990   (D) 1994

21. The term "Annexure I countries" in the Kyoto protocol refers to _____.   1 2 4 1
    (A) Developing countries   (B) Initial signatories to the protocol
    (C) Transition economies   (D) Industrial and developed countries

22. The declaration reached at the 16th conference of the parties in the UN frame work convention on the climate change (UNFCCC) in December 2010 is called the   1 1 5 1
    (A) Kyoto protocol   (B) Treaty on nuclear disarmament
    (C) Cancun agreement   (D) Rio declaration

23. In which European city did 196 nations agree on a land mark global plan to curb climate?   1 2 5 1
    (A) Vienna   (B) Paris
    (C) Rome   (D) Athens

24. IREDA has been awarded _____ (category I) status in 2015 by ministry of new and renewable energy   1 2 5 1
    (A) Global energy   (B) Best renewable energy
    (C) Mini Ratna   (D) Minim Bharat

25. LEED means   1 1 5 1
    (A) A Leadership in Ecological and Environmental Design   (B) Leadership in Energy and Environmental Design
    (C) Leadership in Efficiency and Environmental Design   (D) Leadership in Efficiency and Economical Design

PART – B (5 × 10 = 50 Marks)
Answer ALL Questions

Marks   BL   CO   PO

26. a. Explain briefly about the layers of atmosphere with neat sketch.   10 2 1 1

(OR)

   b. Explain briefly about atmospheric humidity and rainfall with neat sketch.   10 2 1 1

27. a. Explain about human induced climate change with neat sketch.   10 2 2 1

(OR)

   b. Explain briefly about the climate system classification with neat sketch.   10 2 2 1

28. a. Explain briefly about ice probes and sediment cover with a neat sketch.   10 3 3 1

(OR)