Paper Code – 5102

M.Sc. Semester-III (Botany) (Old Course)
July-September-2021
EBO-502

કુલ સમય :– ૩૦ મીનીટ **કુલ પ્રશ્નો : ૩૫** **વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૧૮**

નોંધ : વિદ્યાર્થીએ માત્ર ૧૮ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૧૮ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1. Which of the following is NOT a major component of the atmosphere?
   (A) Nitrogen (B) Oxygen (C) Ozone (D) Argon
2. Carbon dioxide and water vapor are both _____, acting to warm the atmosphere.
   (A) Highly variable (B) Greenhouse gases (C) Major components (D) Minor components
3. Why does the atmosphere help sustain and protect life on the earth's surface?
   (A) The ozone layer shields us from harmful UV radiation (B) Greenhouse gases warm the air near the surface by 30^{o} C
   (C) Oxygen is the major component of the atmosphere (D) All of above
4. The order of the layer of the atmosphere from the earth surface (moving away from the surface) is
   (A) Troposphere - Stratosphere - Mesosphere – Thermosphere
   (B) Mesosphere – Stratosphere – Troposphere – Thermosphere
   (C) Stratosphere – Troposphere – Mesosphere – Thermosphere
   (D) Mesosphere – Troposphere –Stroposphere – Thermosphere
5. According to the Sustainable Development , the biggest threat towards development is:
   (A) Climate change (B) Pollution (C) Population growth (D) Melting polar ice caps
6. Which activities are the largest contributors of greenhouse gases?
   (A) Deforestation (B) Electricity generation (C) Transportation (D) Landfills
7. Who was the first scientist to coin the term SMOG and to describe the layers of SMOG?
   (A) Nikola tesla (B) Stephen hawking (C) Dr. Henry Antonie (D) Nicolauscopernius
8. Which of the following particles is called the particulate pollutants?
   (A) Ozone (B) Radon (C) Fly ash (D) Ethylene
9. Which of the following agents is responsible for turning the TajMahal yellow?
   (A) Sulphur (B) Chlorine (C) Sulphur dioxide (D) Nitrogen dioxide
10. Which of the following statements is true about SMOG?
    (A) It is derived from fog (B) It is derived from water vapor (C) It is derived from smoke (D) Both A and C
11. Smoke, fumes, ash, dust, nitric oxide and sulphur dioxide are the main sources of?
    (A) Primary pollutants (B) Secondary pollutants (C) Bio-degradable pollutants (D) None of the above
12. Main cause of ozone holes and its depletion is
    (A) Propellants (B) Foam blowing agents (C) Halocarbon refrigerants (D) All of the above
13. Ozone can be destroyed by the following free radical?
    (A) Chlorine radical (B) Hydroxyl radical (C) Nitric oxide radical (D) All of the above
14. What are two acids formed when gases react with the tiny droplets of water in clouds?
    (A) Sulphuric acid and nitric acid (B) Hydrochloric acid and nitric acid
    (C) Sulfurous acid and actelylic acid (D) Sulphuric acid and hydrochloric acid
15. Which of the following is the best way to reduce acid rain in soil?
    (A) By adding sulphur to the soil (B) By adding nitrogen to the soil
    (C) By adding oxygen to the soil (D) By adding limestone to the soil
16. Ozone depletion in the stratosphere will cause
    (A) Increased incidence of skin cancer (B) Forest fires (C) Global warming (D) None of these
17. Photochemical smog formed in congested metropolitan cities mainly consist of
    (A) Oxides of nitrogen (B) Suspended particulate matter
    (C) Carbon dioxide and carbon monoxide (D) Oxides of sulphur
18. Green house effect is caused by
    (A) Green plants (B) Infra red rays (C) UV-rays (D) X-rays
19. Ozone umbrella is affected by
    (A) CFM (B) CO_2 (C) Methane (D) PHN
20. Greenhouse refers to
    (A) Ozone hole moon light (B) Global warming caused by increasing CO_2
    (C) Increased chloflurocarbons (D) Plants grown in green house

21. The world environment day is on
(A) 7^{th}, August (B) 5^{th}, June (C) 10^{th}, April (D) 28^{th}, February
22. Result of ozone hole is
(A) Greenhouse effect (B) global warming (C) Acid rain (D) Increased UV radiations
23. Air pollution effect is usually found on
(A) Root (B) Stem (C) Flowers (D) Leaves
24. Carbon monoxide is major pollutant of
(A) Water (B) Air (C) Noise (D) Soil
25. Photochemical smog always contains
PAN and O_3 (B) CH_4 and O_3 (C) CO and O_3 (D) PAN and CH_4
26. Greenhouse effect is related to
(A) Global warming (B) Terrace garden (C) Kitchen garden (D) Increased growth of algae
27. The UV rays in atmosphere are checked by
(A) O_3 (B) O_2 (C) H_2 (D) CL_2
28. The CO_2 content in the atmospheric air is approximately
(A) 0.034% (B) 0.34% (C) 3.34% (D) 6.5%
29. Formation of ozone hole is maximum over
(A) Antarctica (B) Africa (C) Europe (D) India
30. Which important green house gas other than methane is being produced from agricultural fields?
(A) Arsine (B) SO_2 (C) Ammonia (D) Nitrous oxide
31. Which is not a greenhouse gas?
(A) CO_2 (B) CH_4 (C) N_2O (D) SO_2
32. Major aerosol pollutant present in jet plane emission is
(A) SO_2 (B) CO (C) CFCs (D) CCl_4
33. Burning of fossil fuels is the main cause of
(A) Nitrogen oxide pollution (B) Nitric oxide pollution
(C) Sulphur dioxide pollution (D) Nitrous oxide pollution
34. Which air pollutant degrades RBCs?
(A) Aresenic substance (B) Hydrogen fluorides (C) Hydrogen cyanides (D) Chlorine compounds
35. How are UV rays harmful to living organism?
(A) Inuced mutation in genetic material (B) Damage immune system
(C) Destroy the planktons in water (D) All of the above