**Paper Code - 6101**

# M.Sc. Semester-III Botany (New Course)

## July-September-2021

## BOTEC-301 Plant Physiology

**કુલ સમય :– : ૩૦ મીનીટ  કુલ પ્રશ્નો : ૨૫  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. Which of the following is a greenhouse gas?
   (A) $CH_4$ (B) $CO_2$ (C) Water vapor (D) All of the above
6. According to the Sustainable Development , the biggest threat towards development is:
   (A) Climate change (B) Pollution (C) Population growth (D) Melting polar ice caps
7. Which of the following particles is called the particulate pollutants?
   (A) Ozone (B) Radon (C) Fly ash (D) Ethylene
8. Which of the following agents is responsible for turning the TajMahal yellow?
   (A) Sulphur (B) Chlorine (C) Sulphur dioxide (D) Nitrogen dioxide
9. 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
10. 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
11. 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
12. Ozone depletion in the stratosphere will cause
    (A) Increased incidence of skin cancer (B) Forest fires
    (C) Global warming (D) None of these
13. 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
14. Green house effect is caused by
    (A) Green plants (B) Infra red rays (C) UV-rays (D) X-rays
15. Ozone hole refers to
    (A) Reduction of thickness in ozone layer in troposphere
    (B) Reduction of thickness in ozone layer in stratosphere
    (C) Hole in ozone layer in stratosphere
    (D) Increased concentration of ozone

16. Air pollution effect is usually found on
    (A) Root (B) Stem (C) Flowers (D) Leaves
17. Greenhouse effect is related to
    (A) Global warming (B) Terrace garden (C) Kitchen garden (D) Increased growth of algae
18. The UV rays in atmosphere are checked by
    (A) $O_3$ (B) $O_2$ (C) $H_2$ (D) $CL_2$
19. The $CO_2$ content in the atmospheric air is approximately
    (A) 0.034% (B) 0.34% (C) 3.34% (D) 6.5%
20. Which important green house gas other than methane is being produced from agricultural fields?
    (A) Arsine (B) $SO_2$ (C) Ammonia (D) Nitrous oxide
21. Which is not a greenhouse gas?
    (A) $CO_2$ (B) $CH_4$ (C) $N_2O$ (D) $SO_2$
22. 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
23. Which air pollutant can cause allergic disease?
    (A) Suspended particles (B) Nitrogen oxide (C) Hydrocarbons (D) Hydrogen fluorides
24. What is the biggest threat to global environment?
    (A) Increase in amount of $O_2$ (B) Increase in amount of $CO_2$
    (C) Decrease in amount of $O_2$ (D) Decrease in amount of $CO_2$
25. What is related to the reflection of infrared rays towards the earth?
    (A) Excessive amount of Ozone (B) Excessive amount of Oxygen
    (C) Excessive amount of Carbon monoxide (D) Excessive amount of carbon dioxide