



UNIVERSITY OF THE PUNJAB

Seventh Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Air Pollution its Impacts and Control
Course Code: BOT-401 Part-I (Compulsory)

MAX. TIME: 15 Min.
MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

- (i) A deep blanket of gases and suspended liquids and solids that entirely envelop the earth is called:
(a) Troposphere (b) Atmosphere (c) Stratosphere (d) Mesosphere
- (ii) Which of the following is a greenhouse gas?
(a) Nitrogen (b) Methane (c) Argon (d) Oxygen
- (iii) Ozone is formed in the upper atmosphere by a photochemical reaction of oxygen with
(a) Ultra-violet radiation (b) Infra-red radiation (c) Visible light (d) All of the above
- (iv) The first Nuclear Test in Pakistan was carried out on
(a) 18-May 1988 (b) 28-May 1998 (c) 8-May 1998 (d) 28-May 2001
- (v) The function of automobile catalytic converter is to control emissions of
(a) CO₂ & H (b) CO & H (c) CO₂ & CO (d) CO & NO₂
- (vi) CFCs are responsible for
(a) Auroras (b) Depletion of Stratospheric Ozone (c) Creating Smog (d) Acid Rain
- (vii) The law that regulates Air Pollution is known as
(a) Air Quality Control Act (b) Atmospheric Pollution Law
(b) Clean Air Act (d) None of a, b or c
- (viii) The phenomenon of Acid Rain is
(a) Global (b) Local (c) Regional (d) National
- (ix) Radiation that can travel only a few centimeters in the air is
(a) Beta Particles (b) Alpha Particles (c) Gamma Rays (d) Corpuscular radiation
- (x) Amount of energy present in residual nuclear radiations after atomic explosion is
(a) 8% (b) 10% (c) 12% (d) 15%



UNIVERSITY OF THE PUNJAB

Seventh Semester – 2019

Examination: B.S. 4 Years Program

Roll No.

PAPER: Air Pollution its Impacts and Control

Course Code: BOT-401 Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short notes of 6 to 8 lines on the following.

(5x4=20)

- (i) Types and characteristics of Radiations
- (ii) Sources and impacts of Lead pollution in urban atmosphere
- (iii) Impact of Air Pollution on Inert materials
- (iv) Radio sensitivity of different organisms
- (v) Tabulate Ambient Air Quality standards for Air Pollutants

Q 3. What is Stratospheric Ozone and its functions? Give an account of its production and destruction. 10

What are impacts of Stratospheric Ozone depletion?

Q 4. (a) Give an account of effects of radiations at ecosystem level. 5

(b) How air pollution can be controlled at source? 5

Q 5. (a) Give an account of impacts of Global warming and climate change 6

(b) Critically discuss various international Air Quality Programmes 4