

Registration No. _____

Paper Code B

COURSE CODE: CHE110
COURSE TITLE: ENVIRONMENTAL STUDIES

Time Allowed: 3 hrs

Max. Marks: 60

Read the following instructions carefully before attempting the question paper.

1. Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and ensure that both are the same.
2. This question paper contains 60 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.
3. All questions are compulsory.
4. Do not write or mark anything on the question paper except your registration no. on the designated space.
5. Submit the question paper and the rough sheet(s) along with the OMR sheet to the invigilator before leaving the examination hall.

Q. 1 As per the Noise Pollution (Regulation and Control) Rules, 2000, the night time limits of noise in residential area is:
A. 35 dB(A) Leq B. 45 dB(A) Leq C. 55 dB(A) Leq D. 75 dB(A) Leq L2 CO2

Q. 2 According to WHO, the maximum permissible level of fluorides in drinking water is
A. 0.05 mg/L B. 0.5 mg/L C. 1.0 mg/L D. 6.0 mg/L L2 CO2

Q. 3 The Catalytic converter used in motor vehicles converts
1) NOX to N₂ 2) Hydrocarbons to CO₂
3) CO to CO₂ 4) SO_x to Sulphur
A. only 1 is correct B. only 1 and 2 are correct C. 1, 2 and 3 are correct D. All are correct L2 CO2

Q. 4 High concentration of pollutants at ground level during winter season are due to:
A. Surface temperature inversion B. Frontal Inversion
C. Subsequent inversion D. Landscape Induced Inversion L2 CO2

Q. 5 In mass spectrometer, the ions are sorted out in which of the following ways?
A. By accelerating them through electric field
B. By accelerating them through magnetic field
C. By accelerating them through electric and magnetic field
D. By applying a high voltage L2 CO2

Q6. The "sick building syndrome" (SBS), the term used when an occupant experience acute health and comfort effects that appear to be linked to
A. prolonged and excessive working in the same building B. inadequate diet and exercise
C. poor air quality in indoor environment D. excessive use of air conditioners L2 CO1

Q7. Aerosols' contribution to global warming and climate change is
A. Positive as aerosols absorb the incoming solar radiation
B. Negative as aerosols scatter the incoming solar radiation
C. Negative as net aerosols' scattering exceeds the absorption
D. Positive as net aerosols' absorption exceeds the scattering L2 CO1

Q8. Which poisonous gas, which ultimately leaked and caused the Bhopal tragedy, was one of the ingredients of Sevin?
A. Methyl Isocyanide B. Methyl Isocyanate C. Hydrogen Cyanide D. Ethyl Isocyanate L2 CO1

Q9 Blue baby syndrome is due to the presence of
A. Excess sulfate in drinking water B. Excess chlorine in drinking water
C. Excess heavy metals in drinking water D. Excess nitrate in drinking water L2 CO1

Q.10 Which of the following is not the main component of photochemical smog?
A. NO₂ B. O₃ C. O₂ D. PAN L2 CO1

Q.11 Who among the following was associated with Bishnoi movement?
A. Gaura Devi B. Amrita Devi C. Govind Singh D. Shahanshah Singh L4 CO3

Q.12 The El-Nino Phenomenon occurs in _____?
A. Atlantic Ocean B. Pacific Ocean C. Indian Ocean D. Arctic Ocean L4 CO3

- Q. 44. The process that converts solid coal into liquid hydrocarbon fuel is called: L2 CO2
A. Liquefaction B. Carbonation C. Catalytic conversion D. Cracking
- Q. 45. India freshwater resources ranking is among the top ten water rich countries as India contribute L2 CO1
A. 9% of world's water resources B. 6% of world's water resources
C. 4% of world's water resources D. 2% of world's water resources
- Q. 46. The sequence of energy flow through a food chain is L2 CO2
A. primary consumers- producers- higher order consumers. B. producers- higher order consumers- primary consumers.
C. primary consumers- higher order consumers- producers. D. producers- primary consumers- higher order consumers.
- Q. 47. Ecotone is L2 CO2
A. zone of least density in a community B. zone of transition between two communities
C. zone of maximum diversity in a community D. zone of highest density in a community
- Q. 48. The term "detritivore" includes L2 CO2
A. decomposers B. primary consumers C. secondary consumers D. autotrophs
- Q. 49. Which type of succession is controlled by storms and fires? L2 CO2
A. Allogenic succession B. Retrogressive succession
C. Autogenic succession D. All of the above
- Q. 50. All of Earth's water, land, and atmosphere within which life exists is known as L2 CO2
A. population B. community C. biome D. biosphere
- Q. 51. Chemical structure of CFC-11 is L4 CO3
A. CCl3F B. CCl2F2 C. CClF3 D. CCl4
- Q. 52. The Public Liability Insurance Act was enacted in L4 CO3
A. 1974 B. 1986 C. 1991 D. 2000
- Q. 53. The theme 'Transforming Our World: 2030 Agenda' pertains to: L4 CO3
A. Protection of Ozone Layer B. Climate Change Action Plan
C. Sustainable Development Goals D. Millennium Development Goals
- Q. 54. The Committee which reviews the Environmental Impact Assessment and Environmental Management plan reports of a developmental project in Ministry of Environment and Forest is called L4 CO3
A. Project Assessment Committee B. Project Appraisal Committee
C. Project Evaluation Committee D. Project Estimate Committee
- Q. 55. National Green Tribunal was established in the year L4 CO3
A. 2009 B. 2011 C. 2001 D. 2010
- Q. 56. IAIA stands for L4 CO3
A. International Association of Impact Assessment B. Indian Association of Impact Assessment
C. International Assembly of Impact Assessment D. Indian Assembly of Impact Assessment
- Q. 57. Onsite audit is related to L4 CO3
A. Reviewing audit-checklists B. Records reviewing
C. Preparing answers D. Preparing questionnaires
- Q. 58. The Motor Vehicles Act 1938 was amended in which year? L4 CO3
A. 1972 B. 1980 C. 1988 D. 1986
- Q. 59. Under which Ministry National Disaster Management Authority comes? L2 CO1
A. Ministry of Environment B. Ministry of Foreign Affairs
C. Ministry of Pollution D. Ministry of Home Affairs
- Q. 60. Who heads the National Crisis Management Committee? L2 CO1
A. Prime Minister B. President C. Cabinet Secretary D. Ministry of Environment

--- End of Question Paper ---

- Q. 13. Apple Movement took place in:
A. Rajasthan B. Maharashtra C. Karnataka D. Jammu and Kashmir L4 CO3
- Q. 14. Which one of the following is not the outcome of man-wildlife conflict?
a) Damage to human property b) Increase in the forest area
c) Injury and loss of life of humans and wildlife d) Destruction of habitat L4 CO3
- Q. 15. The India Meteorological department forecasts cyclones with the help of:
A. Rohini satellite B. Aryabhata satellite C. INSAT satellite D. None of these L4 CO3
- Q. 16. Nema theory that is acclaimed as a satisfactory explanation about the cause of earthquakes?
A. Elastic theory B. Sedimentology theory C. Tension theory D. Elastic rebound theory L4 CO3
- Q. 17. Which of the following phenomenon is responsible for the formation of cyclones?
A. Coriolis effect B. Bernoulli's effect C. Photoelectric effect D. None of the above L4 CO3
- Q. 18. Which region of the earth has the most frequent earthquakes?
A. Atlantic region B. Indian region C. Pacific region D. Arctic region L4 CO3
- Q. 19. Which of the following is not part of geological disaster?
A. Volcanoes B. Sea Surge C. Tsunami D. Earthquake L4 CO3
- Q. 20. Which one among these is not an essential condition for emergence of Tropical Cyclones?
A. Prevalent landmass B. Large and continuous supply of warm and moist air that can release enormous latent heat.
C. Strong Coriolis force that can prevent filling of low pressure at the centre. D. Absence of strong vertical wind shears, which disturbs the vertical transport of latent heat. L4 CO3
- Q. 21. Which year the project Snow Leopard was launched in India?
A. 1982 B. 1972 C. 1970 D. 2009 L2 CO2
- Q. 22. Which group of states of India covers Nilgiri Biosphere reserve?
A. Kerala, Assam, Pradesh, Karnataka B. Tamil Nadu, Kerala and Andhra Pradesh L2 CO2
C. Tamil Nadu, Kerala and Karnataka D. Kerala, Andhra Pradesh and Karnataka
- Q. 23. Which one of the following is not a recognized IUCN Red List Category?
A. Extinct in the wild B. Critically endangered C. Rare species D. Least concern L2 CO2
- Q. 24. Corbett's brought from Nainital and were introduced recently in the National Park of which state of India?
A. Assam B. Madhya Pradesh C. Uttarakhand D. Maharashtra L2 CO2
- Q. 25. The Indian National Park in India is situated in.....
A. Uttarakhand B. Himachal Pradesh C. Andaman and Nicobar Islands D. Jammu and Kashmir L2 CO2
- Q. 26. The land slide of Japan was caused due to:
A. AV B. C4 C. P8 D. Cyswile L4 CO4
- Q. 27. Which of the following is secondary air pollutant?
A. Chlorine B. Carbon dioxide C. CO D. SO2 L4 CO4
- Q. 28. Under NAAQS, which one of the following is not in air pollutant criteria?
A. Benzene B. Asbestos C. VOCs D. Ni L4 CO4
- Q. 29. The main constituents of photochemical smog are:
A. SO₂ and CO B. SO₂ and Hydrocarbons L4 CO4
C. NO_x and CO D. NO_x, Hydrocarbons and Ozone
- Q. 30. Copenhagen Conference to climate change was held as a sequel to:
A. Montreal Protocol B. Kumar Convention C. Basel Convention D. Kyoto Protocol L4 CO4

- Q. 31. A company conducted an environmental risk assessment to evaluate the possible impacts of releasing various levels of pollutants from a chemical plant. An environmental risk assessment should focus on:
A. Beneficial aspects of the products produced by the plant
B. The regulatory requirements related to the human health effects as a result of exposure to the pollutant
C. The quantification of hazards to the local environment from pollutants released L2 CO1
D. A detailed outline of the management process to reduce the health effects related to exposure to the pollutants
- Q. 32. Under the EIA notification of 14th September, 2006, preparation of EIA is not required for the projects falling in the:
A. Category 'A' projects B. Category 'B' projects C. Category 'B1' projects D. Category 'B2' projects L2 CO1
- Q. 33. Match the List-I and List-II, identify the correct answer from the code given below:
List-I: Soil (Series)
(i) ISO 14021 (ii) Principles and procedures
(iii) ISO 14022 (iv) Self declaration of environmental claims
(v) ISO 14023 (vi) Symbols
(vii) ISO 14024 (viii) Testing and verification methods
Code:
A. (i) (ii) (iii) (iv) B. (ii) (iii) (v) (vi)
C. (iii) (iv) (v) (vi) D. (vi) (vii) (viii) (i) L2 CO1
- Q. 34. Which of the following solid wastes describes the term 'Municipal Solid Waste'?
(a) Toxic (b) Hazardous (c) Non-toxic (d) Non-hazardous L2 CO1
- Q. 35. The Paris Agreement is a legally binding international treaty on climate change, it has emphasized to control the global warming well below
A. 1.5 degree Celsius B. 2.5 degree Celsius C. 2 degree Celsius D. 1 degree Celsius L2 CO1
- Q. 36. How many biopores are there in the world as per Conservation International?
A. 25 B. 34 C. 36 D. 38 L4 CO3
- Q. 37. Which one is the highest contributor to the natural greenhouse effect?
A. Carbon dioxide (CO₂) B. Methane (CH₄) L4 CO3
C. Chlorofluorocarbons (CFCs) D. Water vapour (H₂O)
- Q. 38. What powers the Earth's internal heat engine?
A. radioactivity B. Solar energy C. Volcanoes D. Ocean tides L4 CO3
- Q. 39. The word Tsunami is derived from two Japanese words
A. sea-bigger, main- flow B. sea-bigger main-flow L4 CO3
C. sea-bigger main- store D. none of the above
- Q. 40. What is called for any interaction between humans and wildlife that result in negative impacts on cultural life or on the environment?
a) Human-wildlife interactions b) Human-wildlife services L4 CO1
c) Human-wildlife conflict d) Human-wildlife conflict
- Q. 41. Cation exchange capacity is measured at soil pH by displacing cations with a solution of
A. calcium chloride B. magnesium chloride C. potassium chloride D. magnesium carbonate L2 CO1
- Q. 42. Which of the following is not an example of non-renewable energy source?
A. Gasoline B. Solar energy C. Black diesel D. Biodiesel L2 CO2
- Q. 43. A fuel cell, in order to produce electricity, burns
A. Helium B. Nitrogen C. Hydrogen D. Argon L2 CO1