- 1. Acid rain is caused by an increase in the atmospheric concentration of:
  - a. Ozone and dust
- b. SO<sub>2</sub> and NO<sub>2</sub>
- c. SO<sub>3</sub> and CO
- d. CO<sub>2</sub> and CO
- 2. As it travels through the food chain the concentration of DDT:
  - a. Increases
- b. Remains constant
- c. Decreases
- d. Fluctuates randomly
- 3. Which radical from chlorofluorocarbon gets released in the atmosphere and causes ozone depletion
  - a. Flourine
- b. Chlorine
- c. Carbon
- d. Both (a) and (b)
- 4. The word Ecology was first used by:

  - a. Charles Elton b. Ernst Haeckel
  - c. A.G. Tanslev
- d. F.E. Clements
- 5. Which of the following is not a factor influencing intra-specific relationship:
  - a. Reproduction
  - b. Competition for food
  - c. Social life and communal relationship
  - d. Antagonism
- 6. Any feature of an organism or its part which enable it to exist under conditions of its habitat is known as:
  - a. Adaptive variation
- b. Adjustment
- c. Acclimatization
- d. Adaptation
- 7. Parasitism and predation both are interspecific relationships, but they differ from each other in:
  - a. The involvement of two different species
  - b. One species is always benefitted
  - c. One species is always inhibited
  - d. The host is not directly killed in one of them
- 8. The following is the correct grazing food chain
  - a. Grass grasshopper Frog Snake -
  - b. Grass Frog Grasshopper snake -Hawk
  - c. Grass Grasshopper Frog hawk -
  - d, Grass grasshopper snake Frog hawk

- 9. In any ecosystem, the number of individuals in a species remains more or less constant over a period of time. This constancy of numbers is maintained by:
  - a. Parasites
- b. Predators

- c. Man
- d. Available food
- 10. At present the most significant cause of dwindling biodiversity is:
  - a. Habitat destruction
  - b. Global Warming
  - c. Biological Magnification
  - d. Ozone depletion
- 11. When in a population, the birth and death rates exactly balance each other, it is called:
  - a. Exponential growth phase
  - b. Initial Growth Phase
  - c. Acceleration phase
  - d. Plateau phase
- 12. Significant wetlands of India have been declared as:
  - a. Simpson's sites
- b. Naperian sites
- c. Ramsar Sites
- d. Shannon sites
- 13. A species growing well in a limited zone only is known as:
  - a. Endangered
- b. Extinct
- c. Endemic
- d. Sporadic
- 14. When was Project Tiger launched:
  - a. 1973
- b. 1974
- c. 1975
- d. 1976
- 15. Which of the following agency published the Red Data Book:
  - a. IUCN
- b. NEERI
- c. NWAP
- d. CITES
- 16. Which layer of atmosphere is also known as Ozonosphere:
  - a. Troposphere
- b. Stratosphere
- c. Mesosphere
- d. Exosphere
- 17. Which of the following is not a criteria air pollutant:
  - a. Particulates
- b. Nitrogen Oxides
- c. Hydrogen Sulphide d.Sulphur dioxide
- 18. The noise threshold limit value (TLV) is:
  - a. 90dB for 8 hrs
- b. 95dB for 4 hrs
- c. 100dB for 2 hrs
- d. All are correct

- 19. A fertile soil is likely to have a pH value of:
  - a. 3-4

b. 8-9

c. 6-7

- d. 10-11
- 20. In India, the temperature evergreen vegetation is found in:
  - a. Western Himalaya above 3500m
  - b. Eastern and Western Himalayas less than 3500m
  - c. Rajasthan and Punjab
  - d. Eastern Ghats and Assam
- 21. Cultivation in drought conditions causes
  - a. Permanent soil erosion
  - b. Deforestration
  - c. Infiltration
  - d. Salination
- 22. Which gas produced in open dumps from decomposition of biodegradable waste:
  - a. Ethane

b. Methane

c. Propane

- d. Ethene
- 23. Jatropa gained popularity in the last decade as a
  - a. Biogas plant
- b.Biopetrol plant
- c. Biofertilizer plant d.Biodiesel plant
- 24. Which of the following nutrient replenish the soil after growing leguminous plants:
  - a. Nitrogen
- b. Oxygen
- c. Phosphorus
- d. Potassium
- 25. Which type of farming involves ploughing, seeding, cultivating and harvesting at right angels to the direction of the slope, rather than down it:
  - a. Strip Farming
  - b. Terracing
  - c. Contour farming
  - d. Conservation tillage
- 26. The long term problem/s associated with use of chemical pesticides is/are:
  - a. Non-target toxicity
  - b. Secondary pest outbreaks
  - c. Increased resistance of pests
  - d. All of these

- 27. Which of the following statements is not true about Green Revolution:
  - a. In the 1960's the World Trade
    Organisation began a massive program
    to increase world food production
  - b. The immediate short term gains of Green revolution were impressive
  - The Green revolution techniques were on the whole based on unsustainable agricultural practices
  - d. Both (b) and (C)
- 28. Bacillus polymyxa is a:
  - a. Free living, non-symbiotic nitrogen fixing bacteria
  - b. Green manure
  - c. Biological insecticide
  - d. Hormonal stimulant
- 29. In Gene banks organisms with desirable characters are stored in the form of:
  - a. Seeds
  - b. Vegetative dormant organs
  - c. Frozen eggs or sperms
  - d. All of these
- 30. With the application of (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> as a fertilizer, ammonium ions are selectively absorbed while sulphate ions are left behind, which make the soil:
  - a. Acidic
- b. Alkaline
- c. Neutral
- d. None of these
- 31. In which air pollution control equipment, particulate matter is removed by first being charged by electrons jumping from one high voltage to another and then migrating to the positively charged electrode:
  - a. Settling Chambers
  - b. Electro-static precipitators
  - c. Cyclones
- d. Wet collectors
- 32. The protocol on substances that deplete the ozone layer is known as the:
  - a. Kvoto
- b. Montreal
- c. UNFCCC
- d. CBD
- 33. On 22<sup>nd</sup> December 2016, which country launched a global CO<sub>2</sub> monitoring satellite called TanSat:
  - a. France
- b. China
- c. Iran
- d. India

- 34. Which of the following statements is true for k-strategist populations:
  - a. Maximize their probability of surviving to reproduce in future at the expense of current reproduction
  - b. Allocate most of their resources to reproduction with little energy for growth and reproduction
  - c. Are opportunists and reproduce rapidly under favourable conditions
  - d. Both (b) and (c)
- 35. The formula for exponential growth curve is:
  - a. dN/dt=rN
- b. dt/dN=rN
- c. dN/rN=dt
- d. rN/dN=dt
- 36. Obtaining the forest products by afforestation in open land, reserve areas, on the sides of railway tracts and along the road sides is called:
  - a. Complex forestry
- b. Agroforestry
- c. Social forestry
- d. Mixed forestry
- 37. In a system where the energy fixed by the organisms is balanced by the energy lost during metabolic activities, the P/R ratio will be:
  - a. >1
- b. <1
- $c_{-}=1$
- d = 0
- 38. Fisherman obtain their livelihood from the ocean and need a supply of fish so that they can continue to earn a living. Which category of environmental values does it pertain to:
  - a. Utilitarian
- b. Ecological
- c. Aesthetic
- d. Moral
- 39. Which of the following is a two dimensional method of EIA giving intensity as well as magnitude of the likely impacts:
  - a. Adhoc
- b. Checklist
- c. Matrices
- d. Delphi
- 40. The ox-drawn plough which is more advanced than traditional hoe, but comparatively less complex than a tractor is a/an:
  - a. Low-tech technology
  - b. Hi-tech technology
  - c. Intermediate technology
  - d. Appropriate technology

- 41. A solar cell is made up of:
  - a. Silicon
- b. Titanium
- c. Magnesium
- d. Teflon
- 42. Which of the following is a communicable disease:
  - a. Diabetes
- b. Diptheria
- c. Hypertension d. Kwashiorkor
- 43. Which of the following nutrient cycles lacks an atmospheric component:
  - a. Phosphorus b. Carbon
  - c. Oxygen
- d. Sulphur
- 44. Which of the following air pollution control device has maximum efficiency:
  - a. Electrostatic precipitator
  - b. Dynamic precipitator
  - c. Spray tower
  - d. Wet cyclonic scrubber
- 45. At what stage are non-biodegradable organic materials, heavy metals and minerals removed during sewage treatment process:
  - a. Primary
- b. Secondary
- c. Tertiary
- d. Both (a) and (b)
- 46. The Air (Prevention and Control of pollution) Act of 1981 was enacted by the parliament under which article of the constitution:
  - a. 253
- b. 252
- c. 252 (1)
- d. None of these
- 47. In which year did UN create the United Nations Environment Programme (UNEP):
  - a. 1983
- b. 1972
- c. 1994
- d. 2001
- 48. When is the World Ozone Day celebrated:
  - a. 5<sup>th</sup> June
- b. 21st March
- c. 16<sup>th</sup> September
- d. 8th October
- 49. Lotic system is associated with:
  - a. Rivers and Streams
  - b. Lakes and Ponds
  - c. Oceans
- d. Glaciers
- 50. Who wrote the famous book 'Silent Spring' highlighting the dangers of pesticide pollution:
  - a. M.K. Hill
- b. Rachael Carson
- c. D.L. Devis
- d. J.M. Melius