INSTRUCTIONS TO CANDIDATES

1. Immediately after the commencement of the Examination, you should check that this Booklet does not have any unprinted or torn or missing pages or items, etc. If any of the above defects is found, get it replaced by a Complete Question Booklet of the available series.

2. Write clearly the Question Booklet Version Code A, B, C, D or E, in the appropriate space provided for the purpose, in the OMR Answer Sheet.

3. Enter the name of the Subject, Reg. No., Question Booklet version code and affix Signature on the OMR sheet. As the answer sheets are designed to suit the Optical Mark Reader (OMR) system, special care should be taken to fill those items accurately.

4. This Question Booklet contains 70 questions carrying equal marks. All questions must be attempted. Each question contains four answers, among them one correct answer should be selected and shade the corresponding option in the OMR sheet.

5. All the answers should be marked only on the OMR sheet provided and only with a black or blue ink ball point pen. If more than one circle is shaded / wrongly shaded / half shaded for a given question no marks will be awarded.

6. Questions are in both English and Kannada. If any confusion arises in the Kannada version, please refer to the English version of the questions.

7. Immediately after the final bell indicating the closure of the examination, stop making any further markings in the OMR Answer Sheet. Be seated till the OMR Answer Sheet is collected. After handing over the OMR Answer Sheet to the Invigilator you may leave the examination hall.
Answer all the questions. Each question carries one mark.

1. The following is a micronutrient for plant growth
   a) Nitrogen    b) Zinc    c) Potassium    d) Phosphate
   a) 1    b) 2    c) 3    d) 4

2. Vitamin D is rich in
   a) Chicken    b) Milk    c) Egg    d) Cod liver oil
   a) A    b) B    c) C    d) D

3. Best method of managing biodegradable waste
   a) Composting    b) Deep well injection    c) Sanitary landfill    d) Incineration
   a) 1    b) 2    c) 3    d) 4

4. Congenital diseases are
   a) Acquired during life time    b) Spreads from person to person
   c) Diseases present at birth    d) Deficiency of nutrients
   a) 1    b) 2    c) 3    d) 4

5. The disease affecting the respiratory tract
   a) Rabies    b) Influenza    c) Polio    d) Viral Arthritis
   a) 1    b) 2    c) 3    d) 4

6. Biomedical waste should not be stored beyond
   a) 48 hrs.    b) 96 hrs.    c) 72 hrs.    d) 24 hrs.
   a) 1    b) 2    c) 3    d) 4

SPACE FOR ROUGH WORK
7. Bone is affected by
   a) Chlorine b) Iodine c) Fluorine d) Bromine

8. The following is a non-renewable energy
   a) Solar b) Wind c) Fossil fuel d) Tidal waves

9. Pulse Polio Immunization Programme was launched in India in
   a) 1980 b) 1995 c) 1975 d) 1990

10. International Day of Yoga was celebrated on
    a) June 21st b) June 5th c) May 22nd d) December 1st

11. The Buddhist king practiced Ayurveda even in 226 B.C. was by
    a) King Ashoka b) Krishna Devaraya c) Mahaveera d) Chandragupta Mourya

12. Which is the natural habitat of the Indian Lions ?
    a) Sunderban b) Gir forest c) Nagarhole d) Kanha National Park
13. The ecofriendly fuel is  
   a) Petrol  
   b) CNG  
   c) LPG  
   d) Kerosene

14. Normal body temperature of an adult is about  
   a) 99.2° F  
   b) 94.6° F  
   c) 96.8° F  
   d) 98.6° F

15. Unani medicine approach first started in  
   a) India  
   b) Greece  
   c) Germany  
   d) USA

16. “Rain forests of oceans” refers to  
   a) Minerals  
   b) Coral reefs  
   c) Whales  
   d) Sediments

17. Ozone depletion was first observed in  
   a) Arctic region  
   b) Southern hemisphere  
   c) Northern hemisphere  
   d) Antartic region

18. Lack of sufficient oxygen in the bottom sediments of riverbeds is known as  
   a) Hypoxia  
   b) Hyperxia  
   c) Biomagnification  
   d) Precipitation
19. The technology used for the generation of energy from waste is
   a) Mineralization  b) Sedimentation
   c) Segregation  d) Biomethanization

20. Homeopathy originated in
   a) India  b) Greece  c) Germany  d) China

21. pH of acid rain is
   a) 6.6  b) 5.8  c) 6.7  d) 7

22. Vrikshasana is good for
   a) Strengthens legs and hips  b) Blood circulation
   c) Urinary disorders  d) Nervous disorders

23. Which of these treatment involves trickling filters, activated sludge?
   a) Primary  b) Secondary  c) Tertiary  d) Quarternary

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SPACE FOR ROUGH WORK
24. Leukaemia is a cancer of
   a) Skin  b) Bone  c) Muscle  d) RBC
   "ಬುಹುಜುಹುವು ಬಳಸುವ ವಿಧಾನ ಕಂಡುಬಂತಿರುವ"
   a) ಸಿನಿ  b) ಬ್ಯಾನ್  c) ಮಸೂವಿ  d) ರಬ್ಸಿ

25. Expanded form of VPD
   a) Vaccine Preventable Disease  b) Vaccine Preventable Disable  
   c) Vaccination Preventable Disease  d) None of these
   VPDಗೆ ಮಾತ್ಯರುತೆ
   a) Vaccine Preventable Disease  b) Vaccine Preventable Disable  
   c) Vaccination Preventable Disease  d) ವೈಕೇಟ್ ಪ್ರೆವೆನ್ಟೇಬಲ್ ಡಿಸೀಸೀ

26. Soaps and detergents are the source of organic pollutants like
   a) Glycerol  b) Organochlorines  
   c) Sulphonated hydrocarbons  d) Polyphosphates
   ಸೋಪುಗಳು ಮತ್ತು ಡೆಟರಜಂಟ್ಸ್ ಹಾಗೂ ಜೊತೆಗೆ ಅಂಶಹೊಂದಿರುವ ಅಂಗಮಾಲುಗಳike
   a) ಗ್ಲೀಕಾರೋಲ್  b) ಓರ್ಜಾನೋಚ್ಲೊರೈನ್ಸ್  
   c) ಸುಲ್ಪಾನಾಡ್ ಹ್ಯುಡ್ರೋಕಾರೊಂಡ್ಸ್  d) ಪೊಲಿಪ್ರೋಫಾಟ್ಸ್

27. Commonest cause of stroke is due to cerebral
   a) Thrombosis  b) Hemorrhage  
   c) Embolism  d) Infarction
   ಸ್ಟ್ರೋಕ್ ಹುದಬಹದ್ದರ ವಿಧಾನಗಳು ಕಂಡುಬಂತಿರುವ
   a) ಠ್ರೋಮ್ಬೊಸಿಸ್  b) ಹೆಮೊರ್ಧ್ರೇಸ್  
   c) ಆಮುಂಡಿಸ್  d) ಇಂಫಾರ್ಕ್ಚಿಸ್

28. BMI means measurement of
   a) Obesity  b) Bone density  
   c) Oxygen levels  d) Serum levels
   BMI ಹೊರ್ಮ್ಟ್ನು ಇತರುವ ಎಣ್ಣಿಕಿ
   a) ಉದ್ರ್ಯಪಾಕಸ್  b) ಬ್ಯಾನ್ ಡಿನಿಸಿ  
   c) ಡೆಕ್ಮೋರ್ಧ್ರೇಸ್  d) ಸರ್ಮಾರ್ಡ್ ಸರ್ಮಾರ್ಡ್

SPACE FOR ROUGH WORK
29. Article 47 deals with:
   a) Right to Information
   b) Right to Merciful Death
   c) Right to Education
   d) Rising the Nutritional Level and Quality of Life

30. Suspension of airborne particles that contain living organisms is called:
   a) Droplet
   b) Mixture
   c) Bioaerosol
   d) Biopesticide

31. 17D vaccine is recommended for active immunization against:
   a) Diphtheria
   b) Herpes
   c) Sandy fly fever
   d) Yellow fever

32. According to Sushrut Shastra, Karma should be in empty stomach for the diseases:
   a) Udar roga
   b) Mukh roga
   c) Bhandar roga
   d) All the above

33. National Environmental Tribunal Act was proposed in:
   a) 1991
   b) 1995
   c) 1997
   d) 1999

34. Deficiency in vitamins and minerals leads to:
   a) Obesity
   b) Malnutrition
   c) Thyroidism
   d) TB
35. The first UN conference on environment was held in
   a) Montreal   b) Rio de Janeiro   c) Stockholm   d) Johansberg

36. The presence of E.Coli in water indicates contamination by
   a) Hydrocarbon   b) Phosphorus   c) Human waste   d) Mercury

37. Public health ethics is
   a) Population centered   b) Patient centered   c) Subject centered   d) None of the above

38. Pests and vectors in agricultural crops increases due to the
   a) Increase of temperature   b) Increase of humidity   c) Both a) and b)   d) Decrease of temperature and humidity
39. Dobson Unit (DU) is used to measure the
   a) Atmospheric carbon dioxide       b) Atmospheric nitrogen
   c) Atmospheric ozone               d) Atmospheric methane

40. London smog was originated due to the presence of
   a) Oxides of nitrogen              b) Oxides of sulphur
   c) Oxides of carbon               d) Phosphorus pentoxide

41. The chemical constituents commonly used to adulterate turmeric is
   a) Lead chromate                   b) Copper sulphate
   c) Cadmium chloride               d) Mercuric chloride

42. Night blindness is due to the deficiency of
   a) Vitamin A                      b) Vitamin B
   c) Vitamin C                      d) Vitamin D

43. The World Ozone Day is celebrated on
   a) March 21st                      b) April 22nd
   c) June 5th                       d) September 16th

   a) ಮೇ 21                              b) ಜುಲೈ 22
   c) ಜನವರಿ 5                       d) ಸೆಪ್ಟೆಂಬರ್ 16
44. National Tuberculosis Research Institute is located at
   a) Ahmedabad  b) Bengaluru  c) Jaipur  d) Hyderabad
   ನಿಗ್ರಹಾಣೆ ಪ್ರಶಸ್ತಿ ಸಮಗ್ರ ಪ್ರದತ್ತಿ ಸಂಸ್ಥೆಯ ಸ್ಥಳವನ್ನು ಕಂಡು ಬಿಡಿಸಿ,
   a) ಅಹೆಮಾಧಾಬ  b) ಬೆಂಗಳೂರು  c) ಜಾಪುರ  d) ಹೈದರಾಬಾದ

45. Which of the following is not an example of green house gases ?
   a) Carbon dioxide  b) CFC's  c) Oxygen  d) Methane
   ಇದರ್ಲ್ಲೇ ಎದುರಿಸಿದ ಕೆಲವು ನೀರಾಗಿಯ ಸಂಶೋಧಿಸಿಕೆಗಳು ಹೊಂದುಗಳಿಗೆ ಸ್ಥಳವಿಜ್ಜಣ ನಿರ್ದೇಶನಗಳೊಂದು ?
   a) ಕಾರ್ಬನ್ ಡಿಕೊಡೀಟೆ  b) CFCಗಳು  c) ಐಕ್ಯಾನ್ಸ್  d) ಮೆಥೆನ್

46. The layer of atmosphere which protects the earth from UV radiations
   a) Troposphere  b) Ionosphere  c) Stratosphere  d) Lithosphere
   ವಿಮಾನ ಪತ್ತೆ ಪ್ರತಿಪಾದಕಾತ್ಯ ಭೂಮಿಯ ಉಪಯುಕ್ತ ಕನಕೋಪಾತ್ಯವಾಗಿ
   a) ತ್ರಪೋಸ್ಪರ್ಷೆ  b) ಇನೋಸ್ಪರ್ಷೆ  c) ಸ್ಟ್ರಾಟೋಸ್ಪರ್ಷೆ  d) ಲೀಥೋಸ್ಪರ್ಷೆ

47. Human Development Index is a composite of
   a) Life Expectancy  b) Literacy and Education  c) Income  d) All the above
   ಮೂಲತಂತ್ರ ವಿಸ್ತೀರ್ಣ ತೊಳೆ ಅಂಚೆಗಳು
   a) ಜನಾಭಿವ್ಯಕ್ತಿ  b) ಲಿಟರ್ಸ್‌ಟಿ ಮತ್ತು ಇನ್ನು ವಿಜ್ಞಾನ
   c) ವರ್ಗಾಧಿಕಾರ  d) ಆವೃತ್ತಿ ಸಹಿತ

48. Cumulative increase in the concentrations of a persistent substance along the food chain
   a) Biological diversity  b) Biological magnification  c) Biological depression  d) Bio remediation
   ಜೀವನದ ವೈವಿಧ್ಯ ವಿವಿದ್ಧತೆಯ ಹಾರು ಪರಸ್ತಿತ ವಿಕಾರದ ಬಳಕ್ಟಿ
   a) ಜೀವನದ ವೈವಿಧ್ಯ  b) ಜೀವನದ ವಿವಿದ್ಧತೆ  c) ಜೀವನದ ಪರಸ್ತಿತ  d) ಜೀವನದ ವಿಕಾರ

SPACE FOR ROUGH WORK
49. Thermal pollution may cause
   a) Increase of BOD level in water
   b) Increase of CO₂ in water
   c) Increase of COD level in water
   d) Decrease of dissolved oxygen in water

50. Black lung disease is an occupational hazard due to the mining of
   a) Iron ore mining
   b) Copper mining
   c) Coal mining
   d) Lead mining

51. The following chemical is used for artificial rainfall
   a) CuSO₄
   b) NaCl
   c) KI
   d) HgCl₂

52. The organism is an example of a photoautotroph
   a) Algae
   b) Fungi
   c) Viruses
   d) Protozoa

53. Typhoid is caused by
   a) Fungi
   b) Viruses
   c) Bacteria
   d) Algae
54. Algal blooms results in
   a) Global warming
   b) Eutrophication
   c) Salinization
   d) Biomagnification

55. Mumps is a disease of
   a) Parotid gland
   b) Submandibular gland
   c) Sublingual gland
   d) Submaxillary gland

56. Which of the following constitutes the typical modern municipal landfills?
   a) Ground water monitoring wells
   b) Permeable barriers
   c) Leachate treatment facilities
   d) Impermeable barriers

57. Chlorination of water leads to
   a) Disinfection
   b) Removal of turbidity
   c) Increase in oxygen
   d) Decrease in oxygen

58. The Forest (Conservation) Act was enacted in the year
   a) 1986
   b) 1974
   c) 1980
   d) 1972
59. Ashtanga yoga of Patanjali as per Swami Vivekananda is
   a) Bhaktiyoga  b) Raja yoga  c) Karma yoga  d) Jnana yoga
   Which one among the above mentioned yogs is mentioned in Patanjali’s 'Yoga Sutras'?
   a) Bhaktiyoga  b) Raja yoga  c) Karma yoga  d) Jnana yoga

60. Filtration is one of the primary functions of
   a) Lung  b) Heart  c) Kidney  d) Liver
   Which one of these organs is involved in the filtration process?
   a) Lung  b) Heart  c) Kidney  d) Liver

61. Which of the gases absorb high energy solar radiation and prevent from reaching earth?
   a) O₂  b) N₂  c) O₃  d) CO₂
   Which gas does not absorb high energy solar radiation?
   a) O₂  b) N₂  c) O₃  d) CO₂

62. First CNG vehicles were introduced in
   a) Mumbai  b) Chennai  c) New Delhi  d) Bengaluru
   Where were the first CNG vehicles introduced?
   a) Mumbai  b) Chennai  c) New Delhi  d) Bengaluru

63. Biomethanization is also known as
   a) Anaerobic digestion  b) Chemical digestion  c) Alternate fuel  d) Aerobic digestion
   What is another term for Biomethanization?
   a) Anaerobic digestion  b) Chemical digestion  c) Alternate fuel  d) Aerobic digestion

64. Which of the following does not have antioxidants?
   a) Flavonoids  b) Sugars  c) Vitamin C  d) β-Carotene
   Which of the following does not contain antioxidants?
   a) Flavonoids  b) Sugars  c) Vitamin C  d) β-Carotene
65. Chronic obstructive pulmonary diseases are caused due to
   a) Water pollution  b) Soil pollution  c) Marine pollution  d) Air pollution

66. Which of the following are considered as natural sinks of atmospheric CO₂?
   a) Rivers and lakes  b) Land masses  c) Volcanoes  d) Forests and oceans

67. Name the important vaccine used for Polio prevention
   a) DPT  b) Sabin’s  c) MMR  d) BCG

68. Whooping cough is medically known as
   a) Pertusis  b) Diphtheria  c) Influenza  d) Polio

69. Biocoenosis disease is spread in the workers of
   a) Mining workers  b) Machinery workers  c) Cotton textile workers  d) Medicine workers

70. Which of the following is a vector disease?
   a) Tetanus  b) Diabetes  c) Cancer  d) Dengue