

# MIZORAM PUBLIC SERVICE COMMISSION

## TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO ASSISTANT ENGINEER (CIVIL) CONTRACT BASIS UNDER TRADE AND COMMERCE DEPARTMENT, JULY 2016.

### GENERAL STUDIES

Time Allowed : 3 hours

Full Marks : 100

*All questions carry equal marks of 1 each.*

*Attempt all questions.*

1. The world Health Organization (WHO) named which country as the first country in the world to eliminate the transmission of HIV and syphilis from mother to child?  
(a) Argentina (b) Peru  
(c) Mexico (d) Cuba
2. Which of the following companies teamed up with NASA to develop software called OnSight, a new technology that will enable scientists to work virtually on Mars?  
(a) Apple (b) Google  
(c) Microsoft (d) IBM
3. Which of the following banks has been selected by the Pension Fund Regulatory and Development Authority (PFRDA) as the trustee bank of the National Pension System?  
(a) HDFC Bank (b) Axis Bank  
(c) ICICI Bank (d) State Bank of India
4. A Programme which aims to improve the socio-economic standards of the minority community is  
(a) Multi Sectoral Development Programme (b) Twenty point programme for Minorities  
(c) Both (a) and (b) (d) Neither (a) nor (b)
5. According to the latest Socio-Economic and Caste Census 2011, which state has the highest number of households headed by women?  
(a) Mizoram (b) Sikkim  
(c) Kerala (d) Karnataka
6. Who among the following has recently warned that the global economy may be slipping into a 1930s-like depression?  
(a) Janet Yellen (b) Mario Draghi  
(c) Jim Yong Kim (d) Raghuram Rajan
7. The theme of the 2015 International Day against Drug Abuse and Illicit Trafficking is "Let's Develop – Our lives – Our Communities – Our Identities – Without Drugs". The observance day is on  
(a) 11<sup>th</sup> July. (b) 26<sup>th</sup> June.  
(c) 15<sup>th</sup> July. (d) None of these

8. Nestle India, The manufacturer of Maggi noodles, is the Indian arm of the global food giant Nestle. The headquarters of Nestle is located in
- (a) Switzerland (b) Denmark  
(c) U. S. (d) The Netherlands

9. Employing Workers Index was released by
- (a) World Bank  
(b) International Labour Organization  
(c) Organisation for Economic Cooperation and Development  
(d) UNIDO

10. Which of the following is/are the major objective of planning in India?

1. Controlling economic inequality
2. Self-reliance
3. Credit control
4. Poverty alleviation

Select the correct answer using the codes given below:

- (a) 2 only (b) 2, 3 and 4 only  
(c) 1, 2 and 4 only (d) 2 and 3 only

11. Consider the following statements about 12<sup>th</sup> Five Year Plan's goals:

1. Clean all the critically polluted rivers by 2020.
2. Setup an autonomous body named National Environment Assessment and Monitoring Authority for E14, Coastal Zone regulations and Marine Fisheries regulations.

Which of the above statements is/are *correct*?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

12. Which of the following industries are presently subject to the compulsory licensing?

1. Aerospace
2. Tobacco, Cigarette
3. Alcoholic drinks
4. Drugs and Pharmaceuticals
5. Gun powder, Industrial explosives

Select the correct answer using the codes given below:

- (a) 1, 2 and 3 only (b) 2, 3, 4 and 5 only  
(c) 1, 4 and 5 only (d) 1, 2, 3, 4 and 5

13. Which of the following is/are correct about Rajiv Gandhi Scheme for Empowerment of adolescent girls?

1. It covers girls in the age group of 11 – 18 years.
2. Non-nutritional services like health check-up, health education, counselling on family welfare are not provided under this scheme.

Select the correct answer using the codes given below:

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

14. What are the main features of elderly population (60 years and above) in India as per 2011 census?
1. Majority of the elderly population are in rural areas.
  2. There is a decrease in the number of elderly people.
  3. Majority of them are below poverty line.

Which of the above statements is/are *correct*?

- (a) 1 only (b) 1 and 2 only  
(c) 2 and 3 only (d) All of these
15. The RBI has estimated the current account deficit at 1.5 per cent in FY 16. The estimation is based on
- (a) sharp decrease in oil demand in the country
  - (b) sharp fall in oil prices
  - (c) sharp fall in international demand for gold imports
  - (d) sharp rise in IT exports

16. World Population Day is observed every year on

- (a) 11<sup>th</sup> July. (b) 15<sup>th</sup> July.  
(c) 18<sup>th</sup> July. (d) 26<sup>th</sup> June.

17. “Build Back Better” principle is used in planning of which one of the following?

- (a) Planning and Development (b) Urban Drainage System  
(c) Slum Clearance (d) Disaster Management

18. Which of the following Five Year Plan (FYP) gave emphasis to agriculture sector?

1. 1<sup>st</sup> FYP 2. 2<sup>nd</sup> FYP  
3. 3<sup>rd</sup> FYP 4. 4<sup>th</sup> FYP

Select the correct answer using the codes given below:

- (a) 1 and 2 only (b) 2 and 3 only  
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4
19. Iron and Steel industries are primarily located near coal mining areas to avoid more transportation cost on its manufacture. But which one of the Iron and Steel Industry in India is located near iron ore regions instead of coal mines?
- (a) Bhilai Iron and Steel Plant (b) Bokaro Steel Plant  
(c) Durgapur Iron and Steel Plant (HSL) (d) Bhadravathi Steel Plant (VSL)

20. With the increase in altitude the atmospheric pressure

- (a) increases (b) decreases  
(c) first increases then decreases (d) remains the same

21. Which among the following gases does not contribute to green house effect?

- (a) Methane (b) Carbon dioxide  
(c) Water vapour (d) Nitrogen dioxide

22. The Indian sub-continent is not originally originated in the Northern Hemisphere. It was a part of

- (a) Laurasia (b) Gondwana  
(c) Pangea (d) Antarctica

23. Which of the following isotherm divides India into tropical and sub-tropical regions?  
(a) 15 deg winter isotherm (b) 15 deg summer isotherm  
(c) 21 deg winter isotherm (d) 21 deg summer isotherm
24. Even during very low winter temperature, Delhi experiences dense fog but very rarely experiences snowfall. This is due to  
(a) less availability of moisture (b) air mass doesn't reach its saturation  
(c) Delhi is located on plain (d) all of these
25. Which of the following has minimum energy consumption?  
(a) Cathode ray tube (b) Plasma TV  
(c) LED TV (d) LCD TV
26. The ratio of distance travelled by two bodies A and B starting from rest moving along a straight line is  $x : 1$ . Then the ratio of their displacements is  
(a)  $1 : 1$  (b)  $1 : x$   
(c)  $x : 1$  (d)  $x^2 : 1$
27. During thunder and lightning, we often see the light first and the sound is heard only after few seconds. Which could be the correct explanation for this?  
(a) Thunder is always produced after lightning  
(b) Sound travels slower than light in air  
(c) Light can travel in vacuum while sound cannot  
(d) Light travels faster than sound in water
28. When a light is moving from air to water which of the following phenomenon can occur?  
1. Reflection 2. Refraction  
3. Total internal reflection  
Which of the statements given above is/are correct?  
(a) 1 and 2 only (b) 2 and 3 only  
(c) 2 only (d) All of these
29. Two glass prisms are placed side by side, one placed upright and the other one inverted. A white light is allowed to pass through both prisms. The light coming out of the second prism will be  
(a) White light  
(b) VIBGYOR with violet light at the top  
(c) VIBGYOR with red light at the top  
(d) Two sets of VIBGYOR with one over the other
30. If wind blows in a direction opposite to the sound propagation, then the velocity of the sound  
(a) increases (b) decreases  
(c) remains constant (d) cannot be determined
31. A body travelling with a speed of more than the velocity of sound in air is said to travel with  
(a) supersonic speed (b) hypersonic speed  
(c) ultrasonic speed (d) infrasonic speed
32. A dynamo works on the principle of  
(a) Magnetic effect of current (b) Electromagnetic induction  
(c) Photo electric effect (d) Electromagnetic theory

- 33.** A dielectric is
- (a) a bad conductor of electricity
  - (b) also called a resistor
  - (c) also called a capacitor
  - (d) an electric device leaving two magnetic poles
- 34.** Which among the following is a bad conductor of electricity?
- (a) Silver
  - (b) Copper
  - (c) Aluminium
  - (d) Phosphorus
- 35.** Which of the following statements is/are true about electric current?
1. The drift speed of electrons inside a conductor is almost equal to the speed of light in vacuum.
  2. The motion of electrons in the conductor is similar to flow of charges in empty space.
- Which of the statements given above is/are *correct*?
- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
- 36.** When equal quantities of oil, water and mercury are poured into a beaker, the order in which the liquids arrange themselves from bottom to top is
- (a) mercury, water, oil
  - (b) water, mercury, oil
  - (c) water, oil, mercury
  - (d) mercury, oil, water
- 37.** Which of the following Phenomena are associated with surface tension?
1. Floating of leaf on the surface of water.
  2. Insect walking on the water.
  3. Movement of water inside a straw.
- Which of the statements given above is/are *correct*?
- (a) 1 and 2 only
  - (b) 2 only
  - (c) 2 and 3 only
  - (d) 1, 2 and 3
- 38.** The State Legislature consists of
- (a) The Legislative Assembly
  - (b) The Legislative Assembly and the Legislative Council
  - (c) The Governor and one or two Houses of the Legislature, i.e., Legislative Assembly and Legislative Councils as the case may be
  - (d) None of these
- 39.** The primary function of the Finance Commission in India is to
- (a) Distribute revenue between the Centre and the States
  - (b) Prepare the Annual Budget
  - (c) Advise the Presidents on financial matters
  - (d) Allocate funds to various ministries of the Union and the State Governments
- 40.** Which of the following is correct about the Chief Election Commissioner?
- He holds the office till he attains the age of
- (a) 62 years
  - (b) 65 years
  - (c) 62 years of age or completes 3 years of service, whichever is earlier
  - (d) 65 years of age or completes 5 years of service, whichever is earlier

41. How many languages have been recognised by the Constitution of India?  
(a) Twenty-two (b) Seventeen  
(c) Sixteen (d) Fifteen
42. How many members of the Lok Sabha are elected by the States?  
(a) Nearly 540 (b) Nearly 535  
(c) Nearly 530 (d) Nearly 528
43. The Judges of the Supreme Court of India are appointed by  
(a) The President (b) The Vice-President  
(c) The Prime Minister (d) The Home Minister
44. To elect the President of India which one of the following election procedures is used?  
(a) System of proportional representation by means of a single transferable vote  
(b) Proportional representation through list system  
(c) Collective voting system  
(d) Secondary voting system
45. President Pranab Mukherjee has become the first Indian head of state to visit Belarus. Who among the following is his Belarussian counterpart?  
(a) Alexander Lukashenko (b) Raimondas Vejonis  
(c) Dalia Grybauskaitė (d) Petro Poroshenko
46. Which of the following are collectively called the council of ministers?  
1. Cabinet ministers  
2. Minister of state  
3. Minister of state, independent charge  
4. Deputy Minister  
5. Parliamentary secretaries
- Which of the statements given above is/are correct?  
(a) 1, 2, 4 and 5 only (b) 1, 3, 4 and 5 only  
(c) 1, 2, 3 and 4 only (d) 1, 2, 3, 4 and 5 only
47. If any party has not obtained the required number of seats second to the majority party (that is 10% of the seats) in the Lok Sabha then by who/which of the following mode the leader of opposition will be selected?  
(a) Leader of the pre-poll coalition  
(b) Person from the second largest single party irrespective of the numbers  
(c) It is the prerogative of the Speaker to appoint a Leader of Opposition  
(d) Leader of opposition will be chosen by the Prime Minister
48. Consider the following statements:  
1. Same person can be appointed as Governor for two or more states.  
2. If a person is appointed as the Governor for more than one state, the salary of the person is determined by the Rajya Sabha.

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

49. Consider the following statements:

1. Scheduled Castes and the Scheduled Tribes are weaker sections according to the Constitution.
2. The Constitution has not defined who the weaker sections of the society are.
3. The Constitution mandates the government to promote the educational and economic interest of the weaker sections of the society.

Which of the statements given above is/are *correct*?

- (a) 1 only (b) 1 and 3 only  
(c) 1 and 2 only (d) 1, 2 and 3

50. Who among the following was not a member of the Congress Socialist Party, although he encouraged and blessed its formation?

- (a) Achyuta Patwardhan (b) Jayaprakash Narayanan  
(c) Acharya Narendra Dev (d) Jawaharlal Nehru

51. The Chairman or members of a Public Service Commission is removed by

- (a) the President on the resolution of the Parliament  
(b) the President on the Report of the Supreme Court  
(c) the Governor on the recommendation of the State Legislature  
(d) the President on the recommendation of the Council of Ministers

52. Currently, India is in an anomalous situation of being largely self-sufficient with large stocks of food grains on the one hand and registering high food inflation on the other. The situation is largely due to:

- (a) productivity in food grains is far below global standards.  
(b) the incidence of higher temperatures and higher rainfall variability with lower mean rainfall is increasing over the years.  
(c) government is becoming the single largest buyer of food grains.  
(d) soil degradation due to declining fertilizer-use efficiency.

53. India's journey to prosperity is primarily in increasing productivity. In the last 20 years, many major initiatives have induced productivity growth. What are they?

1. Tax policy reforms
2. Floating of exchange rate
3. Establishment of equity market
4. Shrinking of license raj

Select the correct answer using the codes given below:

- (a) 1 and 2 (b) 1 and 3  
(c) 1, 2 and 3 (d) 1, 2, 3 and 4

54. Which of the following becomes a part of the Consolidated Fund of India?

1. Capitation Tax
2. Taxes on railway fares and freight charges
3. Taxes on sale and purchase of newspapers and advertisements therein

Which of the above statements is/are *correct*?

- (a) 1 and 2 only (b) 2 and 3 only  
(c) 3 only (d) None of these

**55.** Consider the following comparison between deflation and disinflation.

1. While deflation is negative inflation, disinflation is negative inflation growth.
2. While deflation increases the real value of money, disinflation has no impact on the value of money.

Select the correct answer using the codes given below:

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

**56.** Consider the following statements:

1. Primary deficit cannot be higher than Fiscal deficit.
2. Primary deficit is obtained by deducting interest rates from Revenue deficit.
3. Fiscal deficit cannot be lower than budget deficit.

Which of the above statements is/are *not* correct?

- (a) 1 and 2 only (b) 1 and 3 only  
(c) 2 only (d) 3 only

**57.** Which of the following are true about National Investment Fund?

1. All the disinvested money (by centre) is channelised to this fund.
2. It is kept as a part of Consolidated Fund of India.
3. While 75% of the fund is spent as profitable capital investments in PSUs, the remaining 25% is used to finance social sector schemes.

Select the correct answer using the codes given below:

- (a) 1 only (b) 2 and 3 only  
(c) 1, 2 and 3 only (d) None of these

**58.** Which of the following are components of “revenue expenditure”?

1. Interest payments on banks
2. Salaries and pensions of government employees
3. Subsidies
4. Grants to foreign countries
5. Loans in Indian states

Select the correct answer using the codes given below:

- (a) 1, 2 and 3 only (b) 2, 3 and 5 only  
(c) 1, 4 and 5 only (d) 1, 2, 3, and 4 only

**59.** Which of the following is non-tax revenue of Central government?

- (a) Currency, Coinage and Mint (b) Interest receipts  
(c) Dividends earned (d) All of these

**60.** A “closed economy” is an economy in which

- (a) The money supply is fully controlled (b) Deficit financing takes place  
(c) Only exports take place (d) Neither exports nor imports take place

**61.** GDP (Gross Domestic product) means

1. Value of goods and service produced only by nationals within a country.
2. Value of goods and service produced barring foreigners within a given country.

Select the correct answer using the codes given below:

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2



62. Which of the statements given below is/are *incorrect*?

- (a)  $NDP = GDP - \text{depreciation}$
- (b)  $GNP = GDP + \text{Net income from abroad}$
- (c)  $NNP = GNP + \text{depreciation}$
- (d)  $\text{Per capita income of the Nation} = NNP / \text{Total population}$

63. Which of the following represents disposable income?

- (a) Personal income added with direct tax
- (b) Personal income minus direct tax
- (c) Personal income added with service tax
- (d) Personal income minus indirect tax

64. Which of the following is/are methods for calculating National income?

- 1. Product/Output Method
- 2. Income Method
- 3. Expenditure Method
- 4. Value Added Method

Select the correct answer using the codes given below:

- (a) 1, 2 and 3 only
- (b) 1 and 2 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

65. The Government of India launched Smart Cities Mission. Which of the following contribute basis for selection of cities at stage I competition?

- 1. Existing service levels
- 2. Institutional systems and capacities
- 3. Self-financing
- 4. Past track-record

Select the correct answer using the codes given below:

- (a) 1, 2, 3, 4
- (b) 1, 2, 4
- (c) 2, 4
- (d) 1, 3, 4

66. The term “Public Private Partnership” (PPP) traditionally implies engaging with the private sector for provisioning of public services and infrastructure such as roads, air-ports, ports, health. Consider the following statements:

- 1. PPPs are more about a “capital asset management policy” rather than a “service procurement policy”.
- 2. PPP finance does not appear as large expenditure in the budget.

Which of the above statements is/are *incorrect*?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

67. Consider the following statements about the Terafil water filter developed by the CSIR

- 1. They are designed to use solar energy to provide safe drinking water to coastal areas.
- 2. TERAFIL filter is made by mixing black clay (silt clay) and aluminium dioxide.
- 3. CSIR is planning to add Nano-silver particles in these filters, so they can remove virus and bacteria from the drinking water.

Which of the statements given above is/are *correct*?

- (a) 1 and 3 only
- (b) 2 only
- (c) 3 only
- (d) All of these

68. Which of the following is/are components of National urban Livelihood mission?

1. Social Mobilization and institution development through self-help groups.
2. Self-employment programme.
3. Support to urban street Vendors.
4. Creation of slum free India.

Select the correct answer using the codes given below:

- (a) 1 and 2 only (b) 1, 2 and 3 only  
(c) 2, 3 and 4 only (d) 1, 2, 3 and 4

69. Which of the following are the components of Bharat Nirman?

1. Irrigation
2. Roads
3. Sanitation
4. Education
5. Health
6. Telecommunication

Select the correct answer using the codes given below:

- (a) 1, 2 and 3 only (b) 4, 5 and 6 only  
(c) 1, 2 and 6 only (d) 3, 4 and 5 only

70. Which of the following pollutants are emitted during the combustion of coal?

1. Mercury
2. Lead
3. Uranium

Select the correct answer using the codes given below:

- (a) 1 only (b) 1 and 2 only  
(c) 1, 2 and 3 (d) None of these

71. Where is the proposed Kajra Thermal Power Plant located?

- (a) Bihar (b) UP  
(c) Chhattisgarh (d) Jharkhand

72. Which of the following regions produces the largest amount of cotton in India?

- (a) Gangetic plain and Delta (b) Punjab and Haryana plains  
(c) Western and Southern plateau of India (d) North west and Northern plains

73. The Integral Coach Factory is the only coach manufacturer in the world to have manufactured 50,000 coaches. The factory is in

- (a) Kharagpur (b) Chittaranjan  
(c) Kapurthala (d) Chennai

74. Igneous rocks are responsible for which of the following land forms?

1. Mesa and Butte
2. Tors
3. Dendritic pattern of drainage
4. Cuesta

Select the correct answer using the codes given below

- (a) 1, 2 and 3 only (b) 1, 2 and 4 only  
(c) 1, 3 and 4 only (d) 2, 3 and 4 only

**75.** An Earth quake is

1. release of stored energy only at focus
2. sudden vibration on earth surface only
3. produced along plate boundaries only

Select the correct answer using the codes given below:

- (a) 1 only (b) 1 and 2 only  
(c) All of these (d) None of these

**76.** Which of the following is/are the cause (s) for earthquakes happening around a reservoir region?

1. Storing water in its full capacity for a long period.
2. Sudden release of water to make it empty.
3. Increasing the height of reservoir beyond the elasticity of underlying rocks.

Select the correct answer using the codes given below:

- (a) 1 and 2 only (b) 3 only  
(c) 2 only (d) All of these

**77.** Consider the following statements:

1. Disaster is a dangerous condition or event that threatens or has the potential for causing injury to life or damage to property or the environment.
2. Vulnerability is a measure of the quantification of expected losses of a disaster before it occurs.

Which of the statements given above is/are *incorrect*?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

**78.** Which of the following is/are not a hazard?

1. An earthquake in a desert without any loss to socioeconomic and environmental values.
2. Stream flood which can be managed by the local community itself.

Which of the statements given above is/are *correct*?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

**79.** Which of the following is/are not meteorological hazard/s?

1. Avalanche
2. Floods
3. Forest fires

Select the correct answer using the codes given below:

- (a) 1 only (b) 2 and 3 only  
(c) None of the above (d) All of these

**80.** Which one of the following is the example of Dip slip fault?

- (a) Tear fault (b) Wrench fault  
(c) Hinge fault (d) Reverse fault

**81.** Which of the following waves are not associated with earth quake?

1. Reyleigh waves
2. Love waves
3. P and S waves

Select the correct answer using the codes given below:

- (a) 3 only (b) 1 and 2 only  
(c) All of these (d) None of these

82. Consider the following statements:

1. The speed variation between P and S waves helps to identify the depth of the earth quake focus.
2. Minimum three seismograph readings are required to identify the epicentre.

Which of the statements given above is/are *correct*?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

83. Consider the following statements:

1. Plate tectonics is a mechanism deals with only the movements of plates and resultant reaction.
2. The new crust formation can be explained by the concept of Sea Floor Spreading.

Select the *incorrect* statement/s using the codes given below:

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

84. Consider the following statements:

1. Disaster is a dangerous condition or event, that threat or has the potential for causing injury to life or damage to property or the environment.
2. Vulnerability is measure of the quantification of expected losses of a disaster before it occurs.

Which of the statements given above is/are *incorrect*?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

85. Identify the correct sequence of precipitation process.

1. Unsaturated air
2. Convection
3. Dew point
4. Condensation

Select the correct answer using the codes given below:

- (a) 1, 2, 3, 4 (b) 2, 1, 3, 4  
(c) 1, 2, 4, 3 (d) 2, 1, 4, 3

86. Evaporation is the process of conversion of

- (a) a liquid to its gaseous state below the boiling point of the substance  
(b) a liquid to its gaseous state at the boiling point of the substance  
(c) a solid to its liquid state at the melting point of the substance  
(d) a solid to its liquid state below the melting point of the substance

87. Identify the Group of NH which leads to the shortest distance between Kanyakumari and Delhi

- (a) NH 2 and NH 7 (b) NH 8 and NH 17  
(c) NH 2, NH 3 and NH 17 (d) NH 2, NH 3, NH 7 and NH 26

88. Which of the following union territory/territories of India is/are not served by National Highways?

1. Chandigarh
2. Puducherry
3. Andaman and Nicobar
4. Lakshadweep

Select the correct answer using the codes given below:

- (a) 3 and 4 (b) 1 and 2  
(c) 4 only (d) None of these

**89.** Which of the following rivers of India does not have National River Waterway?

- |                   |                  |
|-------------------|------------------|
| 1. River Brahmani | 2. River Barak   |
| 3. River Matai    | 4. River Krishna |

Select the correct answer using the codes given below:

- |                  |                   |
|------------------|-------------------|
| (a) 1 and 4 only | (b) 2 and 4 only  |
| (c) All of these | (d) None of these |

**90.** Which of the following statements is/are true about an ideal ecosystem?

1. Flow of energy in an ecosystem is cyclic.
2. An ecosystem is always a closed entity and do not interact with any external components.

Select the correct answer using the codes given below:

- |                  |                     |
|------------------|---------------------|
| (a) 1 only       | (b) 2 only          |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

**91.** Which of the following comes under macronutrients required for plants for their growth?

- |             |            |
|-------------|------------|
| 1. Nitrogen | 2. Sulphur |
| 3. Zinc     | 4. Boron   |
| 5. Calcium  |            |

Select the correct answer using the codes given below:

- |                     |                     |
|---------------------|---------------------|
| (a) 1 and 2 only    | (b) 1, 3 and 4 only |
| (c) 1, 2 and 3 only | (d) 1, 2 and 5 only |

**92.** Ozone purification is a method used for purifying drinking water. Which of the following statements are true of ozone purification?

1. Ozone is used as a disinfectant in water purification.
2. Ozone is unstable and releases one atom of oxygen that act as a strong oxidising agent that can kill almost all pathogens.
3. Ozone required is usually a very small amount and hence can be stored in a small tank in the purifier.

Which of the statements given above is/are *correct*?

- |                  |                  |
|------------------|------------------|
| (a) 1 only       | (b) 2 and 3 only |
| (c) 1 and 2 only | (d) All of these |

**93.** Nitrous oxide is an environmentally hazardous gas. Which of the following statements is true about nitrous oxide?

1. Nitrous oxide is both global warming and green ozone depleting gas.
2. Nitrous oxide is included in both Kyoto protocol and Montreal protocol.

Select the correct answer using the codes given below

- |                  |                     |
|------------------|---------------------|
| (a) 1 only       | (b) 2 only          |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

**94.** Which of the following statements are true about decomposition?

1. Decomposition is an oxygen requiring process and takes place only in aerobic conditions.
2. Decomposition leads to the release of carbon dioxide, water and nutrients.
3. Decomposition is carried out by bacteria and fungi.

Select the correct answer using the codes given below:

- |                  |                  |
|------------------|------------------|
| (a) 1 and 3 only | (b) 2 and 3 only |
| (c) 1 and 2 only | (d) All of these |

**95.** Use of bio-pesticides is encouraged by environmental activists. Which of the following statements regarding bio-pesticides are true?

1. Bio-pesticides are more toxic than conventional pesticides and hence small quantity of bio-pesticides kill the pest.
2. Plant Incorporated Protectants such as BT plants are included under bio-pesticides by US EPA.
3. Bio-pesticides are highly specific and kill only the targeted pest.

Which of the statements given above is/are *correct*?

- (a) 1 only (b) 2 and 3 only  
(c) 1 and 3 only (d) All of these

**96.** Which of the following is/are used as bio-fertilizer?

1. Bacteria
2. Blue green algae
3. Virus

Select the correct answer using the codes given below:

- (a) 1 only (b) 1 and 2 only  
(c) 1 and 3 only (d) 1, 2 and 3

**97.** Which of the following is/are considered as the major causes for land degradation?

1. Deforestation
2. Over grazing
3. Monocropping
4. Invasive species

Select the correct answer using the codes given below:

- (a) 1, 3 and 4 only (b) 2, 3 and 4 only  
(c) 1 and 2 only (d) 1, 2, 3 and 4

**98.** Which among the following diseases have been successfully eradicated from India through Immunization?

1. Polio
2. Smallpox
3. Chicken Pox
4. Leprosy

Select the correct answer using the codes given below:

- (a) 1 and 2 only (b) 1, 2 and 3 only  
(c) 1, 2, 3 and 4 (d) 1, 3 and 4 only

**99.** Consider the following:

1. Polio
2. Dengue
3. Malaria
4. Syphilis

Which of the above given disease (s) is/are not caused by virus?

- (a) 1 and 2 only (b) 2 and 3 only  
(c) 3 and 4 only (d) 2, 3 and 4 only

**100.** WHO has recently issued its first guidelines for hepatitis C treatment? Which of the following statements is/are true about Hepatitis C?

1. Hepatitis C is transmitted through unsafe injection practices and unscreened blood transfusion.
2. Vaccine for hepatitis C must be administered before the onset of the disease.
3. Hepatitis C cannot be transmitted sexually.

Which of the statements given above is/are *correct*?

- (a) 1 only (b) 1 and 2 only  
(c) 2 and 3 only (d) 1, 2 and 3