1. Arrange the following major floods in ascending (year wise) order:  
   (i) 1931 China Floods  
   (ii) 2004 Bangladesh Floods  
   (iii) 2014 Kashmir Floods  
   (iv) 2017 Hurricane Harvey Floods  
   Select the correct answer using the codes given below:  
   (A) (i)-(ii)-(iii)-(iv)  
   (B) (ii)-(i)-(iii)-(iv)  
   (C) (i)-(iv)-(ii)-(iii)  
   (D) (ii)-(iii)-(i)-(iv)

Answer 71. (A) (i)-(ii)-(iii)-(iv)

Explanation:

* The 1931 China floods occurred earliest, known as one of the deadliest floods in history.
* The Bangladesh floods took place in 2004, significantly impacting the region.
* Kashmir experienced devastating floods in 2014.
* Hurricane Harvey led to catastrophic floods in 2017, making this the most recent.

1. Arrange the following Tiger Reserves of Assam in the order they were declared:  
   (i) Manas Tiger Reserve  
   (ii) Nameri Tiger Reserve  
   (iii) Kaziranga Tiger Reserve  
   (iv) Orang Tiger Reserve  
   (A) (i)–(iii)–(iv)–(ii)  
   (B) (ii)–(i)–(iii)–(iv)  
   (C) (i)–(ii)–(iii)–(iv)  
   (D) (iv)–(iii)–(i)–(ii)

Answer 72. (A) (i)–(iii)–(iv)–(ii)

Explanation:

* Manas was declared India’s first Tiger Reserve in 1973.
* Kaziranga followed as a Tiger Reserve in 1978.
* Orang Tiger Reserve was declared in 1999.
* Nameri became a Tiger Reserve later in 1999 but after Orang.

1. Match List-I with List-II:  
   List-I                              List-II  
   a. Anadromous fish                        1. Migrate from sea to freshwater for spawning  
   b. Detritivore                         2. Feeds on dead organic matter  
   c. Savanna                                       3. Grassland with scattered trees  
   d. Cambium                        4. Plant tissue for secondary growth  
   Select the correct answer using the codes given below.  
   (A) abcd 1234  
   (B) abcd 3412  
   (C) abcd 4321  
   (D) abcd 2143

Answer 73. (A) abcd 1234

Explanation:

* Anadromous fish migrate from the sea up rivers to freshwater to spawn.
* Detritivores consume dead organic material.
* Savannas are grasslands characterized by scattered trees.
* Cambium is a layer of plant tissue responsible for secondary growth in stems and roots.

1. Under the Assam SAPCC, which adaptation measure in the water resources sector has been recommended?  
   (A) Construction of mega dams for flood control across the Brahmaputra  
   (B) River interlinking of Brahmaputra with Barak  
   (C) Integrated flood management, embankment strengthening, wetland restoration  
   (D) Rainfall diversion schemes from Shillong plateau to Lower Assam

Answer 74. (C) Integrated flood management, embankment strengthening, wetland restoration

Explanation:

* The Assam State Action Plan on Climate Change (SAPCC) focuses on environmentally sound flood management techniques rather than large dam constructions.
* It emphasizes embankment strengthening, restoration of wetlands to buffer floods, and integrated spatial planning to adapt to climate variability.
* Options involving mega dams or river interlinking are not SAPCC recommendations.

1. The process used to treat groundwater by pumping oxygen or air into wells to stimulate native bacteria is called  
   (A) biosparging  
   (B) bioventing  
   (C) bioaugmentation  
   (D) phytoremediation

Answer 75. (A) biosparging

Explanation:

* Biosparging involves injecting air or oxygen below the groundwater table to enhance the aerobic biodegradation of pollutants by native microorganisms.
* Bioventing refers to aerobic treatment of unsaturated soil zones, bioaugmentation means adding specific microbes, and phytoremediation uses plants to clean contaminants.

1. A greenhouse gas with a high radiative efficiency but a short atmospheric lifetime generally has:  
   (A) Low GWP  
   (B) High GWP  
   (C) No effect on GWP  
   (D) GWP the same as CO2

Answer 76. (B) High GWP

Explanation:

* Global Warming Potential (GWP) measures relative warming effect over a specific time horizon.
* A gas with high radiative efficiency tightly absorbs infrared radiation, contributing strongly to warming, leading to high GWP even if its atmospheric lifetime is short.

1. A soil profile from a grassland ecosystem is more likely to have a well-developed:  
   (A) O horizon due to leaf litter  
   (B) A horizon rich in humus  
   (C) B horizon with iron accumulation  
   (D) C horizon dominant

Answer 77. (B) A horizon rich in humus

Explanation:

* Grassland soils typically accumulate thick, nutrient-rich topsoil (A horizon) with humus from grass root decomposition.
* The O horizon (organic layer) is minimal due to sparse leaf litter compared with forests.
* Iron accumulation is more characteristic of forest soils; C horizon refers to weathered parent material.

1. The Bhure Lal Committee Report pertains to:  
   (A) Western Ghats biodiversity management  
   (B) Tribal welfare and forest rights  
   (C) Pollution control in Indian rivers  
   (D) Wetland protection and restoration

Answer 78. (B) Tribal welfare and forest rights

Explanation:

* The Bhure Lal Committee was constituted to examine issues related to tribal rights and the implementation of the Forest Rights Act (Scheduled Tribes and Other Traditional Forest Dwellers Act).
* Its recommendations focused on improving recognition of tribal forest rights and welfare.

1. The institution responsible for monitoring the foreign exchange reserves position of India is:  
   (A) Ministry of Finance  
   (B) Reserve Bank of India  
   (C) Securities and Exchange Board of India  
   (D) Ministry of External Affairs

Answer 79. (B) Reserve Bank of India

Explanation:

* The Reserve Bank of India manages India’s foreign exchange reserves by buying and selling foreign currencies and monitoring external sector stability.
* Other institutions do not manage reserves.

1. In the MPI framework, maternal health and nutrition indicators fall under which dimension?  
   (A) Standard of Living  
   (B) Health  
   (C) Education  
   (D) Economic Status

Answer 80. (B) Health

Explanation:

* The Multidimensional Poverty Index (MPI) includes maternal health and nutrition parameters under the health dimension, reflecting deprivation related to wellbeing and child survival.
* Standard of living deals with assets and housing quality, education with schooling, and economic status is broader income-related context.