

- 1 D  
**Ex.** Agricultural soils release harmful gases like methane and nitrous oxide. These emissions are due to the natural biochemical process in the nitrogen cycle. Further application of nitrogen based fertilisers adds to the process of conversion of nitrogen to nitrous oxide. The main sources of ammonia in the environment include decaying organic matter and excreta of humans and animals (cattles).  
 The poultry industry is responsible for the excretion of reactive nitrogen compounds in the environment.
- 2 A  
**Ex.** The Indira Gandhi Government started the process of nationalisation of coal mines in the year 1971. The nationalisation was complete in the year of 1973, with the enactment of Coal Mines (Nationalisation) Act, 1973.  
 This Act was repealed by the Narendra Modi Government in 2018, which allowed the private firms to enter commercial mining industry. Now coal allocation is done on the basis of bidding process. India imports coal to meet its domestic energy demands and it has not yet become self-sufficient in production of coal.
- 3 D  
**Ex.**
- 4 D  
**Ex.** Methane hydrate, hydromethane, methane ice or fire ice is a solid compound containing large amounts of methane or natural gas. It occurs in Arctic Tundra region and seafloor. In addition, deep fresh water lakes may also host gas hydrates. The methane hydrates are sensitive to warming and warming of the atmosphere releases a large amount of the deposits of methane hydrate. Methane is a potent greenhouse gas which converts into CO<sub>2</sub> and water in the presence of oxygen. Thus, it can trigger global warming when it gets released from deposits.
- 5 B  
**Ex.**
- 6 D  
**Ex.** A digital signature is an electronic method of signing an electronic document. It ensures that the original content is unchanged. It identifies the certifying authority issuing it. It is also used to serve as a proof of identity of an individual to access information on internet. It is a process that guarantees that the contents of a message have not been altered in transit. Once a digital signature has been placed the document can not be altered any more.
- 7 D  
**Ex.** The reason for occurrence of multi-drug resistance in microbial pathogen in India are : taking incorrect doses of antibiotics to cure disease, use of antibiotics in livestock farming and multiple chronic diseases in some people. This occurs due to evolution of strain of pathogen which are multi-drug resistant.
- 8 A  
**Ex.**
- 9 A  
**Ex.** Sand is a minor mineral as defined under Mines and Minerals Development and Regulation Act, 1957 (MMDR Act). This act empowers State Government to make rules for regulating the grant of mineral concessions in respect of minor minerals. Also, it empowers State Government to frame rules to prevent illegal mining, transportation and storage of minerals.
- 10 B  
**Ex.** Currency crisis refers to decline in value of a country's currency. The decline in value creates instabilities in exchange rates.  
 The foreign exchange earnings and remittances arrest downfall of currency and will bring foreign currency. This will contribute in reducing the risk of a currency crisis. Increasing the government expenditure will not reduce the risk of currency crisis.
- 11 A  
**Ex.**
- 12 C  
**Ex.**
- 13 D  
**Ex.**
- 14 D  
**Ex.**
- 15 C  
**Ex.**
- 16 C  
**Ex.**
- 17 D  
**Ex.**
- 18 D  
**Ex.**
- 19 A  
**Ex.**
- 20 C  
**Ex.**
- 21 A  
**Ex.** Indian Railways undertook the Radio-frequency identification (RFID) project which aims for automatic identification & data collection of rolling stock with focus on improving the safety and reliability. Two works for the RFID project have been sanctioned by the Railway board worth Rs.112.96 Crores where coaches and wagons are to be RFID-tagged. It has features of Real time visibility of railway wagons through the National Rail Network(NRN) with the help of RFID technology.
- 22 D  
**Ex.** NagobaJatara is a festival which is prominently celebrated in Keslapur village, Indervelly Mandal, Adilabad district of Telangana. It is also the 2nd biggest tribal carnival and is celebrated by Mesaram clan of Gond tribes for nearly a month.





62 C  
 Ex.  
 63 C  
 Ex.  
 64 C  
 Ex.  
 65 C  
 Ex.  
 66 D  
 Ex.  
 67 B  
 Ex.  
 68 B  
 Ex.  
 69 C  
 Ex.  
 70 C  
 Ex.  
 71 A  
 Ex.  
 72 A  
 Ex. \* While Mutiny of 1859 by the European troops took place during Viceroy Lord Canning.  
 \* With the Queen's Proclamation of 1858, India's administration was handed over to the British Crown. But the transfer of power meant that the Soldiers of the three Presidency Armies would now require making over their allegiance to the Queen (British Crown) and the Royal Army. This led to resentment among the European troops as while serving the East India Company (EIC), they used to receive 'batta' (Extra allowance) to cover the various expenditures relating to the operations outside their home territories but after shifting their allegiance to British Army, they did not get any extra payment. Also the officers of British Army were senior in age to those of the same rank in the EIC unit.  
 73 C  
 Ex.  
 74 A  
 Ex.  
 75 D  
 Ex.  
 76 D  
 Ex.  
 77 C  
 Ex.  
 78 A  
 Ex.  
 79 A  
 Ex.  
 80 D  
 Ex.  
 81 A  
 Ex.  
 82 B  
 Ex.  
 83 B  
 Ex.

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84 C  
 Ex.  
 85 D  
 Ex.  
 86 A  
 Ex.  
 87 D  
 Ex.  
 88 C  
 Ex.  
 89 C  
 Ex.  
 90 C  
 Ex.  
 91 A  
 Ex.  
 92 D  
 Ex.  
 93 D  
 Ex.  
 94 B  
 Ex.  
 95 C  
 Ex.  
 96 C  
 Ex.  
 97 C  
 Ex.  
 98 B  
 Ex.  
 99 A  
 Ex.  
 100 C  
 Ex.