

Civils Prelims 2022 (Scheduled on 5.6.2022)  
Model Questions (for GS Paper )  
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For Study purpose

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1)Consider the following with reference to 'Energy for Sustainable Growth' .

1)'Energy for Sustainable Growth' not only resonates with the Indian tradition but is a pathway to achieve future needs and aspirations. Prime Minister of India said that sustainable growth is possible only through sustainable energy sources.

2)The Prime Minister reiterated his commitment made at Glasgow to reach Net Zero by 2070.

3)He also mentioned his vision of LIFE pertaining to an environmentally sustainable lifestyle.

4)India is providing leadership in the global collaborations like International Solar Alliance. He also talked of target of achieving 500 gigawatt non-fossil energy capacity and achieving 50 per cent of installed energy capacity through non-fossil energy by 2030.

5)"Whatever targets India has set for itself, I do not see them as a challenges but as opportunity. India is moving with this vision in last few years and the same has been taken forward at policy level in this year's budget", he said. This budget has announced 19.5 thousand crore for high-efficiency solar module manufacturing which will help in making India a global hub for manufacturing and R&D of solar modules and related products.

6)Referring to recently announced National Hydrogen Mission, the Prime Minister said India can become hub of green hydrogen given its inherent advantage in the form of abundant renewable energy power. He asked for private sector efforts in the area.

7)Shri Modi also pointed towards challenge of energy storage which has received significant attention in the budget. "Provisions have also been made in this year's budget regarding battery swapping policy and inter-operability standards. These will reduce the problems faced in the use of electric vehicles in India," he said.

8)The Prime Minister emphasized that along with energy production, energy saving is equally important for sustainability. "You should work on how to make more Energy Efficient A/C, Efficient heaters, geysers, ovens in our country", he exhorted the participants.

Which of the statements given above is / are correct ?

- (a)1 and 2 only
- (b)4,5,6,7 2 only
- (c) 1, 2, ,3,4,5,6,7
- (d) 6 and 7

Ans: c

2)Consider the following with reference to LEB bulbs :

1)Stressing the need to prioritize energy efficient products, the Prime Minister gave the example of promotion of LED bulbs at large scale.

2)He said that first the government brought down the cost of LED bulbs by promoting production and then 37 crore LED bulbs were distributed under Ujala scheme.

3)This has led to saving of forty eight thousand million Kilo Watt Hour electricity and saving of about 20 thousand crore rupees in the electricity bills of poor and middle class families.

4)Furthermore, annual carbon emission saw a decline of 4 crore tonnes. Local bodies are saving 6 thousand crore rupees every year due to adoption of LED bulbs in street lights, he added.

Which of the statements given above is / are correct ?

(a)1 and 2 only

(b) 2 and only

(c) 1, 2, ,3,4

(d) None of these

Ans: c

3)Consider the following with reference to Coal Gasification :

1)Coal gasification is a clean alternative to coal, the Prime Minister noted. in this year's budget, for coal gasification, 4 pilot projects have been announced which will help in firming up technical and financial viability of these projects.

2)Similarly, the government is also continuously promoting ethanol blending. The Prime Minister told the gathering about the extra differential excise duty for unblended fuel.

3)Recalling recent inauguration of Gobardhan Plant in Indore, the Prime Minister said that private sector can establish 500 or 1000 such plants in the country over next two years.

4)The Prime Minister talked about the future upsurge in the energy demand in India and underlined the criticality of transition towards renewable energy.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2 only

(c) 1, 2, and 3,4

(d) None

Ans: c

4)Consider the following with reference to coal and coal gasification :

1)India has total reserve of 307 Billion Tonnes of thermal coal and about 80% of coal produced is used in thermal power plants.

2)Coal is a resource India is well endowed with and intends to use it for purposes other than energy generation in environmentally sustainable manner.

3)With global concerns on climate change and development of renewable energy, diversification of coal for its sustainable use has been identified as the future course for the country. Coal gasification is considered a cleaner option.

4)Gasification facilitates utilization of chemical properties of coal.

5)Syn Gas produced from coal can be used to produce Gaseous Fuels such as Hydrogen (Blue coupled with CCUS), Substitute Natural Gas (SNG or Methane), Di-Methyl Ether (DME), Liquid Fuels such as Methanol, Ethanol, Synthetic diesel and Chemical like Methanol derivatives, Olefins, Propylene, Mono-Ethylene Glycol (MEG), nitrogenous fertilizers including Ammonia,

DRI, Industrial Chemicals along with Power Generation. These products will help move towards self-sufficiency under *Atmanirbhar Bharat Abhiyaan*.

6) In line with the above objective, Ministry of Coal has taken initiatives for coal gasification and it has prepared National Mission document to achieve 100 MT coal gasification by the year 2030. Policy incentivizing coal gasification provides for rebate in revenue share in coal block auction and also linkage for the same.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2, and 3,4,5,6
- (d) None

Ans: c

5) Consider the following with reference to Sagar parikrama :

1) The voyage Sagar Parikrama as Phase –I programme shall started on 5th March 2022 from Mandvi and ended at Porbandar on 6th March 2022.

2) The entire distance will be covered from the coastline of Mandvi on the coast of the Arabian Sea in the Kutch district of Gujarat, situated at the estuary where the river Rukmavati meets the Gulf of Kutch.

3) The journey of "Sagar Parikrama" started with Gujarat State.

4) The Bardoli Satyagraha, in the state of Gujarat, India during the British Raj, was a major episode of civil disobedience and revolt in the Indian Independence Movement on 12 June 1928. The movement was eventually led by Sardar Vallabhbhai Patel, and its success gave rise to Patel becoming one of the main leaders of the independence movement, especially resolving farmers issues.

5) Gujarat has a coastal length of 1214 km, covering 16 coastal districts having huge diversity of marine based ecosystems and development opportunities.

6) Fisher folk, vendors and industries have a direct stake in the development of fisheries sector in economic value, especially exports.

7) The journey of *Sagar Parikrama* shall focus on sustainable balance between the utilization of marine fisheries resources for food security of nation and livelihoods of coastal fisher communities and protection of marine ecosystems.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1, 2, 3 only
- (c) 1, 2, and 3,4,5,6,7
- (d) 6 and 7

Ans: c

6) Consider the following with reference to Khawthilanguipui (Karnaphuli)-Tuichawng River:

1) Shri Sarbananda Sonowal reviewed the ongoing projects, including the important Kaladan Multi Modal Transport project in Mizoram with top officials from Inland Waterways Authority (IWAI), Transport Department, Public Works Department (PWD) of Mizoram to develop the inland water transport (IWT) in Aizwal

2) Plans are afoot to develop the inland water transport at Khawthilangtuipui (Karnaphuli)-Tuichawng River stretching upto 23 kms. The total cost of this project Rs 22.93 crore. The PSW Ministry has sanctioned a total of Rs 6.17 crore under Central Sector Scheme. The minister was also appraised about the Hydrographical Survey & Techno Economic Feasibility study conducted covering a stretch of 87.136 kms between River Tiawng at Khamrang village in Mizoram to Gharmura in Assam.

3) A detailed report to develop IWT at River Chhintuipui was submitted. It has now been decided to conduct Detail Hydrographic Survey and Techno Economic Feasibility Survey on this river from Tupui D to Lomasu stretching upto 138.26 kms. The cost of this survey is budgeted at Rs 82.30 lakhs.

Which of the statements given above is / are correct ?

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

Ans: c

7) Consider the following :

1) Reiterating India's commitment to climate action and energy transition, Prime Minister urged discussion on key budget announcements like Rs 19500 crore allocation for PLI for high efficiency PV solar modules, Green Hydrogen Mission, Coal Gasification, Battery storage and clean cooking among others.

2) The industry leaders gave several concrete suggestions which included support for indigenous manufacturing for solar modules which may be extended to the entire value chain, including subcomponents and materials. This would enable growth of ancillary industry, including in MSME sector. Regarding Green Hydrogen, the industry welcomed the recent announcement of banking provisions and ISTS waiver for Green Hydrogen.

3) It was suggested that to further optimize the cost of Green Hydrogen production, a mechanism for Inter-State banking of RE may be considered.

4) For Green Hydrogen, it was suggested that Government may consider incentivising both domestic manufacturing of electrolyzers through a PLI mechanism and Green hydrogen end use. Industry leaders suggested that Solar cooking through both electric and thermal routes may be promoted. Startups have developed hybrid stoves that can work both on gas and solar power, these may also be explored. Rooftop solar promotion efforts may be intensified, given its huge potential. Carbon pricing mechanism would be beneficial for emerging technologies. Government may also consider incentivising Carbon capture and utilization.

5) Circular Economy principles were also discussed which are being considered in MNRE's committee on the subject. MNRE would be taking time bound action for implementation of the budget announcements.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2, and 3,4,5
- (d) None

Ans: c

8) Consider the following with reference to ARIES ?

1) Aryabhata Research Institute of Observational Sciences (ARIES) is one of the leading research institutes which specializes in observational Astronomy & Astrophysics, Solar Physics and Atmospheric Sciences.

2) The main research interests of Astronomy & Astrophysics division are in solar, planetary, stellar, galactic and extra-galactic astronomy including stellar variabilities, X-ray binaries, star clusters, nearby galaxies, quasars, and inherently transient events like supernovae and highly energetic gamma ray bursts. ARIES hosts three existing optical telescopes 3.6m DOT (India's largest), 1.3m DFOT and 1.04m ST and the upcoming 4m ILMT along with a 206.5 MHz ST Radar.

Which of the statements given above is / are correct ?

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

Ans: b

9) Consider the following Mula – Mutha River Projects:

1) PM laid the foundation stone of rejuvenation and pollution abatement of Mula-Mutha River projects.

2) Rejuvenation will be done in 9 Km stretch of the river at a project cost of more than Rs. 1080 crores.

3) It will involve works such as river edge protection, interceptor sewage network, public amenities, boating activity etc.

4) Mula-Mutha River pollution abatement project will be implemented on the concept of "One City One Operator" at a cost of over Rs 1470 crore. A total of 11 sewage treatment plants will be constructed under the project, with a combined capacity of around 400 MLD.

5) Prime Minister also launched 140 e-buses and e-bus depot constructed at Baner.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2, and 3,4,5
- (d) None

Ans: c

10) Consider the following with reference to National Waterway -1 (River Ganga ) and NW-2

1) Union Minister of Ports, Shipping & Waterways and AYUSH, Shri Sarbananda Sonowal received the maiden voyage of food-grains from Patna to Pandu via Bangladesh in Guwahati

2)The vessel started its sail from Patna on National Waterway-1 (river Ganga) and passed through Bhagalpur, Manihari, Sahibganj, Farakka, Tribeni, Kolkata, Haldia, Hemnagar; Indo Bangladesh Protocol (IBP) route through Khulna, Narayanganj, Sirajganj, Chilmari and National Waterway-2 through Dhubri, and Jogighopa covering a distance of 2,350 km.

2)The dignitaries welcomed this wonderful beginning that has the potential to revolutionise cargo movement. Another vessel MV Ram Prasad Bismil with two barges Kalpana Chawla and APJ Abdul Kalam started voyage from Haldia on 17<sup>th</sup> Feb 22 and is on the way to Pandu. The vessel is carrying 1800MT Tata steel and already reached Bangladesh Border at Dhubri. The ODC (over Dimensional cargo, 252 MT) of Numaligarh Bio-refinery reached Silghat on 15<sup>th</sup> February from Haldia through IWT via IBP route. Another ODC (250MT) consignment is also on the way to Silghat.

3)The IWAI is also planning to run a regular scheduled service on these routes. The protocol on Inland water transit and Trade (PIWTT) between India & Bangladesh will be optimally beneficial when we can unlock the value from the cargo trade in the region. To improve the navigability, two stretches of IBP routes, i.e., Sirajganj-Daikhowa and Ashuganj-Zakiganj are also being developed at a cost of Rs. 305.84 crore on an 80:20 share basis (80% being borne by India and 20% by Bangladesh).

4)The development of these stretches is expected to provide seamless navigation to NER via the IBP route. The contracts for dredging on the two stretches for providing and maintaining requisite depth for a period of seven years (from 2019 to 2026) are underway. Once the IBP Route no. 5 & 6 from Maia near Farakka in India to Aricha in Bangladesh, the IWT distance connecting NW1 to NW2 (North Eastern Region) will further reduced by nearly 1000 km, which will reduce time and cost to a great extent.

Which of the statements given above is / are correct ?

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

Ans: c

11)Consider the following with reference to Wadia Institute of Himalayan Geology (WIHG) :

1)WIHG has been a dedicated research institute on Himalayan Geosciences for understanding geodynamic evolution of the mighty Himalaya; scientific explanation of geo-hazards caused by earthquakes, landslides, avalanches, flash floods, etc. with a view to provide an assessment, management and mitigation; and exploration of Geo-resources such as geothermal, minerals, ore bodies, hydrocarbons, springs, riverine system, etc. that can be exploited in a scientific manner for socioeconomic development. He said that the institute is actively involved in studying glacial dynamics and the climate-tectonic interaction in the present climate change scenario.

2)WIHG has been monitoring several glaciers in Uttarakhand, Union Territory of J&K, Ladakh and Sikkim, and has envisaged a plan for long-term monitoring of glaciers and lakes on continual mode by establishing a network of meteorological, hydrological, seismological stations, online transmission of data through VSAT/GSM, automatic analysis/modelling, and integration of data through AI/ML algorithms 24X7, setting up standard operating procedure (SOP), issuing alert to stakeholders, sensitization to locals for responding at the time of consequences for effective execution of an early warning system is the need of the hours.

Which of the statements given above is / are correct ?

- (a) 1 only

- (b) 1 and 2 only
  - (c) 2 only
  - (d) None
- Ans: b

12) Consider the following with reference to      landslides in Himalayas and geothermal fields :

1) Dr. Singh said that the intensity and frequency of landslides have been increased recently due to excessive rainfall, which have been felt by both the Uttarakhand and Himachal Pradesh Himalaya.

2) To meet the requirement, WIHG has prepared the landslides susceptibility maps in regional scale for both the states, and in local scale for the Nainital and Mussoorie towns, and Bhagirathi, Goriganga and Kali rivers valley, which can be used for the city developers, planners, local administrators to avoid the consequences.

3) The WIHG has mapped 40 geothermal springs each in the Uttarakhand and Himachal Pradesh Himalaya, and has been trying to generate 5 MegaWatt of electricity at initial stage by a binary power plant at Tapovan. If successful, this will be expanded to all geothermal fields for space heating and conversion into electrical energy without any carbon footprint.

Which of the statements given above is / are correct ?

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

Ans: c

13) Consider the following with reference to      Ukraine ?

1) Ukraine is the second-largest European country, after Russia.

2) Lying between latitudes 44° and 53° N, and longitudes 22° and 41° E., it is mostly in the East European Plain.

3) Ukraine covers an area of 603,628 square kilometres (233,062 sq mi), with a coastline of 2,782 kilometres (1,729 mi)

4) The landscape of Ukraine consists mostly of fertile plains (or steppes) and plateaus, crossed by rivers such as the Dnieper (*Dnipro*), Seversky Donets, Dniester and the Southern Bug as they flow south into the Black Sea and the smaller Sea of Azov. To the southwest, the delta of the Danube forms the border with Romania.

5) Ukraine's various regions have diverse geographic features ranging from the highlands to the lowlands. The country's only mountains are the Carpathian Mountains in the west, of which the highest is Hoverla at 2,061 metres (6,762 ft), and the Crimean Mountains, in the extreme south along the coast

6) Ukraine also has a number of highland regions such as the Volyn-Podillia Upland (in the west) and the Near-Dnipro Upland (on the right bank of Dnieper). To the east there are the south-western spurs of the Central Russian Upland over which runs the border with the

Russian Federation. Near the Sea of Azov can be found the Donets Ridge and the Near Azov Upland. The snow melt from the mountains feeds the rivers and their waterfalls.

7) Significant natural resources in Ukraine include iron ore, coal, manganese, natural gas, oil, salt, sulphur, graphite, titanium, magnesium, kaolin, nickel, mercury, timber and an abundance of arable land.

8) Ukraine has many environmental issues. Some regions lack adequate supplies of potable water. Air and water pollution affects the country, as well as deforestation, and radiation contamination in the northeast stemming from the 1986 accident at the Chernobyl Nuclear Power Plant.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2, and 3,4,5,6,7,8
- (d) None

Ans: c

14) Consider the following with reference to Pollution and Discussions in meetings (CAQM) :

1) The theme of the first session of Day-2 was "Abating Vehicular and Industrial Pollution in NCR". Discussions revolved around shift to cleaner fuels like PNG in the industries and transport sector; the road map for PNG network, infrastructure and supply in the entire NCR; E-mobility as a potential solution for addressing vehicular pollution; ways to reduce emissions from the vehicles in the transport sector; and regulation of emission from large scale use of DG sets.

2) The next session centred around sustainable agricultural stubble management, prevention and control of crop residue burning along with strategies, methodologies and schemes for both in-situ and ex-situ management of crop.

3) The last session of Day-2 of "Dialogue towards Clean Air" comprised of ingenious discussions on Greening and Plantation Measures for Abatement of Air Pollution, including the urban forestry initiatives by MoEFCC like the Nagar Van Scheme, etc. The Government of Haryana also presented their account of greening initiatives to curb air pollution in the State.

4) Whether it is about vehicular pollution, industrial emissions, stubble burning, roadside dust generation, solid waste management, vehicular pollution, use of DG sets, etc. the Commission for Air Quality Management in NCR & Adjoining Areas (CAQM) is taking up every issue with utmost concern and it has pulled out all the stops to issue necessary Directions and Advisories to tackle it effectively.

Which of the statements given above is / are correct ?

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

Ans: c

15) Consider the following with reference to National Supercomputing Mission (NSM) & Param Ganga :

1) The National Supercomputing Mission (NSM) which is being steered jointly by Ministry of Electronics & Information Technology (MeiTY) and the Department of Science and Technology



(DST) and implemented by Centre for Development of Advanced Computing (C-DAC) and Indian Institute of Science (IISc), Bangalore, has progressed significantly.

2)The four major pillars of the NSM, namely, Infrastructure, Applications, R&D, HRD, have been functioning efficiently to realize the goal of developing indigenous supercomputing eco system of the nation.

3)C-DAC has been entrusted the responsibility to design, development, deployment and commissioning of the supercomputing systems under the build approach of Mission.

4)The Mission plans to build and deploy 24 facilities with cumulative compute power of more than 64 Petaflops.

5)Till now C-DAC has deployed 11 systems at IISc, IITs, IISER Pune, JNCASR, NABI-Mohali and C-DAC under NSM Phase-1 and Phase-2 with a cumulative compute power of more than 20 Petaflop

6)Under the build approach, C-DAC is building an indigenous supercomputing ecosystem in a phased manner, which is leading to indigenously designed and manufactured supercomputers. It has designed and developed a compute server "Rudra" and high-speed interconnect "Trinetra" which are the major sub-assemblies required for supercomputers.

7)Some of the large-scale applications which are being developed under NSM include the following.

- NSM Platform for Genomics and Drug Discovery.
- Urban Modelling: Science Based Decision Support Framework to Address Urban Environment Issues (Meteorology, Hydrology, Air Quality).
- Flood Early Warning and Prediction System for River Basins of India.
- HPC Software Suite for Seismic Imaging to aid Oil and Gas Exploration.
- MPPLAB: Telecom Network Optimization.

8)As part of its tireless journey of success, NSM has now deployed "PARAM Ganga", a supercomputer at IIT Roorkee, with a supercomputing capacity of 1.66 Petaflops. The system is designed and commissioned by C-DAC under Phase 2 of the build approach of the NSM.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2,3,4,5
- (c) 1, 2, and 3,4,5,6,7,8
- (d) 6 and 7

Ans: c

16) Consider the following about NEAT :

1)National Educational Alliance for Technology (NEAT) is an initiative to provide the use of best-developed technological solutions in the education sector to enhance the employability of the youth on a single platform for learners' convenience.

2)These solutions use Artificial Intelligence for a personalized and customized learning experience for better learning outcomes and skill development in the niche areas.

3)AICTE, MoE is acting as the facilitator in the process while ensuring that the solutions are freely available to a large number of socially and economically backward students.

4) NEAT has 58 Education Technology Companies with 100 products that help to develop employable skills, capacity building, and bridge learning gaps.

Which of the statements given above is / are correct ?

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

Ans: c

17) Consider the following :

1) Scheme on Green Energy Corridor (GEC) Phase-II for Intra-State Transmission System (InSTS) for addition of approximately 10,750 circuit kilometres (ckm) of transmission lines and approx. 27,500 Mega Volt-Amperes (MVA) transformation capacity of substations.

2) The scheme will facilitate grid integration and power evacuation of approximately 20 GW of Renewable Energy (RE) power projects in seven States namely, Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh.

Which of the statements given above is / are correct ?

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

Ans: c

18) Consider the following :

1) We are hopeful that the cargo ships will start sailing over Brahmaputra towards the later part of 2022. The dredging work at critical junctures of the river has already been initiated by the ministry.

2) The Bangladesh government, with support from Government of India, is also working on the Jamuna river to make the 2000 kms long waterway from Sadiya to Haldia via Bangladesh a smooth passage.

3) Sharing the vision of Prime Minister's vision of Gati Shakti, the minister said that the northeastern region will play a critical role in resuscitate the economic prosperity of India.

4) In order to provide a springboard for the region to act as a catalyst in India's economic rebound, there have been efforts to build waterways of the region & connect it to major ports in the Bay of Bengal. This will not only unlock the economic potential of the region but allow the landlocked region a direct access to the international trading routes.

5) The minister said that the government is working tirelessly to connect Mizoram, Tripura and Assam to strategic ports in Myanmar (Sittwe port) and Bangladesh (Mongola & Chittongong ports).

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2,3
- (c) 1, 2, and 3,4,5
- (d) None of these

Ans: c

19) Consider the following :

The two main objectives of Azadi Ka Amrit Mahotsav are

1) to try to revive the immortal saga of the unsung martyrs who made supreme sacrifice for the country's freedom and

2) to connect with the development of the country by awakening the spirit of patriotism in the new generation

Which of the statements given above is / are correct ?

(a) 1 only

(b) 2

(c) Both 1 and 2

(d) None of these

Ans: c

20) Consider the following about Mangoes :

1) The Agricultural and Processed Food Products Export Development Authority (APEDA) said that this would also provide an opportunity for the export of other delicious varieties of mangoes from North and East India such as *Langra*, *Chausa*, *Dushehri*, *Fazli*, etc from Uttar Pradesh, Bihar and West Bengal.

2) traditional mango production belts such as Maharashtra, Uttar Pradesh and Andhra Pradesh and Telangana.

Which of the statements given above is / are correct ?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) None of these

Ans: c

21)

1) "Gati Shakti – The revolutionary Multi-Modal Connectivity for Integrated & Seamless Supply Chain"

2)

Which of the statements given above is / are correct ?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) None of these

Ans: c

22) India State of Forest Report 2021' prepared by the Forest Survey of India (FSI) which has been mandated to assess the forest and tree resources of the country.

Which of the following is correct ?

1)The total forest and tree cover of the country is 80.9 million hectare which is 24.62 percent of the geographical area of the country. As compared to the assessment of 2019, there is an increase of 2,261 sq km in the total forest and tree cover of the country. Out of this, the increase in the forest cover has been observed as 1,540 sq km and that in tree cover is 721 sq km.

2)Increase in forest cover has been observed in open forest followed by very dense forest. Top three states showing increase in forest cover are Andhra Pradesh (647 sq km) followed by Telangana (632 sq km) and Odisha (537 sq km).

2)Area-wise Madhya Pradesh has the largest forest cover in the country followed by Arunachal Pradesh, Chhattisgarh, Odisha and Maharashtra. In terms of forest cover as percentage of total geographical area, the top five States are Mizoram (84.53%), Arunachal Pradesh (79.33%), Meghalaya (76.00%), Manipur (74.34%) and Nagaland (73.90%).

3)17 states/UT's have above 33 percent of the geographical area under forest cover. Out of these states and UT's, five states/UTs namely Lakshadweep, Mizoram, Andaman & Nicobar Islands, Arunachal Pradesh and Meghalaya have more than 75 percent forest cover while 12 states/UTs namely Manipur, Nagaland, Tripura, Goa, Kerala, Sikkim, Uttarakhand, Chhattisgarh, Dadra & Nagar Haveli and Daman & Diu, Assam, Odisha, have forest cover between 33 percent to 75 percent.

4)Total mangrove cover in the country is 4,992 sq km. An increase of 17 sq Km in mangrove cover has been observed as compared to the previous assessment of 2019. Top three states showing mangrove cover increase are Odisha (8 sq km) followed by Maharashtra (4 sq km) and Karnataka (3 sq km).

5)Total carbon stock in country's forest is estimated to be 7,204 million tonnes and there an increase of 79.4 million tonnes in the carbon stock of country as compared to the last assessment of 2019. The annual increase in the carbon stock is 39.7 million tonnes.

Which of the statements given above is / are correct ?

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

23)Consider the following :

1)Major earthquake events in last 30,000 years resulted in spectacular changes in landscape of the Katrol Hill Fault in the Kachchh region in Gujarat, a study conducted on sediment samples revealed. These surprising geological facts about the seismic history of the fault in the recent geological past necessitate a revised seismic hazard assessment and mitigation strategies in Kachchh Basin, owing to its close proximity to industrial corridor and major settlements, including Bhuj city.

2)Earthquakes are one of the natural hazards that geologists are still grappling with its complex nature. The complexity is attributed to its widespread occurrence through space and time. Seismicity in Kachchh region is highly complex as it is characterized by multiple seismic sources in the form of several East-West trending fault lines, which release continuously accumulating tectonic stresses at intervals producing earthquakes.

3)Real-time monitoring of earthquakes since the occurrence of devastating 2001 Bhuj earthquake indicate that most of the faults in the region, viz., Kachchh Mainland Fault (KMF), South Wagad Fault (SWF), Gedi Fault (GF), and Island Belt Fault (IBF) are seismically active.

4)However, seismic activity along other faults like the Katrol Hill Fault (KHF) is not apparent, thus making the task of seismic hazard estimation and mitigation in the region a scientifically complex process.

Which of the statements given above is / are correct ?

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

Ans: b

24) Consider the following about exports :

1)India's overall exports (Merchandise and Services combined) in December 2021 are estimated to be USD 57.87 Billion, exhibiting a positive growth of 25.05 per cent over the same period last year and a positive growth of 23.35 per cent over December 2019. Overall imports in December 2021 are estimated to be USD 72.35 Billion, exhibiting a positive growth of 33.86 per cent over the same period last year and a positive growth of 40.30 per cent over December 2019

2)India's overall exports (Merchandise and Services combined) in April-December 2021 are estimated to be USD 479.07 Billion, exhibiting a positive growth of 36.31 per cent over the same period last year and a positive growth of 20.25 per cent over April-December 2019. Overall imports in April-December 2021 are estimated to be USD 547.12 Billion, exhibiting a positive growth of 57.33 per cent over the same period last year and a positive growth of 18.57 per cent over April-December 2019.

Which of the statements given above is / are correct ?

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

Ans: c

25) Consider the following about 'Go Electric Campaign :

1)As part of the endeavor of Government of India for E-Mobility transition, Ministry of Power along with Ministry of Road Transport and Highways, Ministry of Heavy Industries and NITI Aayog has launched a nationwide "Go Electric" Campaign.

2)This Campaign is to educate the general public on the benefits of e-mobility, inform the potential EV owners about the Government incentives for EV adoption, generate curiosity and transform the same into demand, discredit misinformation against Electric Vehicles and bring together multiple stakeholders under single platform.

Which of the statements given above is / are correct ?

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

Ans: c

26)Consider the following about Purple Revotion :

1)"Purple Revolution" is Jammu & Kashmir's contribution to "Start-ups India", an initiative that was launched by Prime Minister Narendra Modi in 2016 and today we are observing the first National Start-up Day.

2)Briefing about the Aroma Mission launched by the Union Ministry of Science & Technology through the Council of Scientific & Industrial Research (CSIR), which has led to the well-known "Purple Revolution" in India , the Minister informed that the CSIR had, to begin with introduced high-value essential oil bearing lavender crop through its Jammu based laboratory, Indian Institute of Integrative Medicines (IIIM) for cultivation in districts Doda, Kishtwar, Rajouri and later also in the other districts including Ramban, Pulwama, etc.

3)In a brief span of time, aroma/lavender cultivation has become a popular option in farming for agricultural Start-up, he said.

Which of the statements given above is / are correct ?

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

Ans: c

27) Consider the following about Deep Ocean Mission :

1)Government had approved the Deep Ocean Mission (DOM) in June, 2021 to be implemented by the Ministry of Earth Sciences at a total budget of Rs. 4077 Crore for 5 years. DOM is a multi-ministerial, multi-disciplinary programme with emphasis on development of deep-sea technology

2)Deep sea technology includes development of manned Submersible rated for 6000 metre water depth along with technologies for deep sea mining, exploration of deep-sea

mineral resources and marine biodiversity, acquisition of a research vessel for ocean exploration, deep sea observations, and capacity building in Marine Biology

Which of the statements given above is / are correct ?

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

Ans: c

28) Consider the following about CCUS:

1) Under a strict climatic regime, we can realize the identification and adoption of a right balance of portfolio of emission curtailment technologies. Carbon Capture, Utilization, and Storage (CCUS) is among one such key pathways to reduce emissions while continuing to develop sustainably at an unprecedented pace.

2) CCUS clearly aligns with five of the seventeen Sustainable Development Goals (SDGs), namely, climate action; clean energy; industry, innovation, and infrastructure; responsible consumption and production; and partnerships to achieve the goals," he said at the first workshop on thematic of Carbon Capture.

Which of the statements given above is / are correct ?

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

Ans: c

29) Consider the following of Export of Engineering Goods :

1) Exports of Engineering Goods jumped to USD 81.8 Billion during April-December 2021 (Provisional) as compared to USD 52.9 Billion during same period in the previous year (2020), registering a stupendous growth of 54%. Engineering Goods sector constitutes the largest, more than 27%, share of India's total exports basket during the period.

2) India's top five export destinations for the Engineering Goods sector in April-November 2021 (as per latest available data, share per cent mentioned in bracket) are: USA (14.7%), China (5.8%), UAE (5.1%), Italy (4%) & Germany (3.4%).

3) The Engineering Goods sector comprises of metal products, industrial machinery and equipment, automobiles and its components, transport equipment, bicycles, medical devices and renewable equipment.

Which of the statements given above is / are correct ?

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

Ans: c

30) Consider the following about ISRO :

1) In 2022, ISRO also has the distinction of launching GSAT-21, the first fully funded satellite of NSIL (New Space India Limited) and will be owned as well as operated by NSIL. This Communication Satellite will meet the DTH (Direct to Home) application needs.

2) The status of Gaganyaan programme and said that there had been a delay in timeline because of the COVID and other constraints but now things have again fallen back on the track and all the systems needed for the first unmanned mission are getting realised. Following the first unmanned mission, the second unmanned mission "Vyommitra" will carry Robot and this will then be followed by the Human Mission.

3) The Minister was also informed that the Indian Astronauts have successfully undergone Generic Space Flight Training in Russia. A dedicated ad-hoc astronaut training centre has also been established at Bengaluru for Gaganyaan specific training.

4) The preparations for the Human Mission, said the ISRO Chief, involve in-flight demonstration of Crew Escape System functioning in lower atmosphere (less than 10 Kms). The exercise recovery of the crew module after impacting in Sea is also being worked out.

Which of the statements given above is / are correct ?

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

Ans: c

31) Consider the following about PMG Portal :

1) PMG portal of Invest India is a unique institutional mechanism to facilitate resolution of bottlenecks in infrastructure projects with investments upward of ₹ 500 crores and do milestone-based project monitoring of the same.

2) Presently, PMG is monitoring 1,351 under implementation projects with total anticipated investment of approximately INR 48.94 lakh crore. Projects of infrastructure ministries such as Road, Transport and Highways; Railways; Petroleum and Natural Gas; New and Renewable Energy; Power; etc are listed on the portal.

3) The PMG mechanism allows project proponents to raise issues with concerned government agencies which are causing hindrances in implementation of projects.

Which of the statements given above is / are correct ?

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

Ans: c

32) Consider the following about India's exports of Gems and Jewellery :

India's exports of Gems and Jewellery shot up by a whopping 71% during the first three quarters of the current Financial Year, April-December 2021(Provisional) over the same



period previous year. The sector clocked USD 28.9 Billion exports as compared to USD 16.9 Billion during same period in the year 2020. Compared to the same period before the Covid pandemic struck, the Gems and Jewellery sector registered a growth of 3% over USD 28.0 Billion achieved in April-December 2019.

Centre has laid out four points to make India's Gems & Jewellery a pioneer industry in the world:

1. Focus on Design (creation of patented designs) in order to increase value add of our products and make our manufacturing more profitable.
2. Diversification of export products: Emphasis on products like pearls, silver, platinum, synthetic stones, artificial diamonds, fashion jewellery, non-gold jeweller, etc.
3. Collaboration with other nations for cost-effective methods to enhance production of fusion jewellery, and
4. Promote Lab-Grown Diamond: They are environment friendly & affordable and will contribute to India's export as well as generate employment.

Which of the statements given above is / are correct ?

- (a) 1 only
- (b) 1 and 2
- (c) 1, 2, and 3,4
- (d) 6 and 7

Ans: c

33) Consider the following :

- 1) Prime Minister Shri Narendra Modi hosted the first India-Central Asia Summit in virtual format on 27 January 2022,
- 2) It was attended by Presidents of the Republic of Kazakhstan, Kyrgyz Republic, Republic of Tajikistan, Turkmenistan and Republic of Uzbekistan.
- 3) This first India-Central Asia coincided with the 30<sup>th</sup> anniversary of establishment of diplomatic relations between India and Central Asian countries.

Which of the statements given above is / are correct ?

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

Ans: c

34) Consider the following about Summer/Zaid Season in agriculture sector :

1) An interaction session was also organized with Agriculture Production Commissioners and Principal Secretaries of all the States in four groups to share the achievements, challenges and strategies to be adopted in respective states for increasing area coverage, production and productivity during summer/Zaid season in agriculture sector.

2) The objective of *Zaid* conference is to review and assess the crop performance during the preceding crop seasons and fix crop-wise targets for summer season in consultation with State Governments. The Minister assured full support to ensure supply of critical inputs and facilitate adoption of innovative technologies with a view to enhance production and

productivity of the crops. The priority of government is to increase production of oilseeds and pulses where large imports are required.

3)The Government has taken new initiatives through various programmes for cultivation of summer crops such as pulses, coarse cereals, nutri-cereals, and oilseeds. Though more than half of cultivated area in summer season is under pulses, oilseeds and nutri-cereals, the farmers with irrigation source are growing rice and vegetables during the summer season.

4)He highlighted that area under cultivation of zaid crops including rice has increased progressively 2.7 times from 29.71 lakh hectares in 2017-18 to 80.46 lakh hectares in 2020-21.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3,4

(d) None of these

Ans: c

35) Consider the following about India's exports of Electronic Goods :

1)India's exports of Electronic Goods touched USD 1.67 Billion last month, registering a growth of 33.99% over \$1.25 Bn logged in December 2020. During April-December 2021, the Sector Exports registered a growth of 49% to USD 11.0 Billion (Provisional) over USD 7.4 Billion during same period in the year 2020. As compared to April-December 2019 (USD 8.8 Billion) and April-December 2014 (USD 4.8 Billion), exports of Electronic Goods registered a growth of 26% and 131% respectively.

2)Top 5 export destinations in April-November 2021 (latest available, share% in bracket) are: U S A (18%), UAE (16.6%), China (7.6%), Netherland (4.5%) & Germany (4.2%).

3)Mobile Phones constitute a major chunk of India's Electronics Goods sector exports. The sector includes IT Hardware (laptops, tablets), Consumer electronics (TV and audio), Industrial electronics, Auto electronics, Electronic components, LED Lighting, Strategic electronics, PCBA, Wearables and hearables, and Telecom equipment.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3

(d) None of these

Ans: c

36) Consider the following about 'Panchamrit':

1)Reiterating India's commitments to the ambitious targets announced by Prime Minister Shri Narendra Modi in the form of five nectar elements "Panchamrit" including the ambitious target of 500 GW of non-fossil energy at the COP 26 summit held in Glasgow in November 2021, Minister for Environment, Forest and Climate Change, Shri Bhupender, Yadav stated that India has embarked upon one of the most ambitious energy transition programmes in the world.

2)At COP26, Prime Minister Shri Narendra Modi presented an ambitious agenda for India's contribution to the global efforts to combat climate change.

3)PM's vision of 5 Panchamrit or nectar elements involves installation of 500 GW non fossil energy capacity by 2030, reduction in emissions intensity of GDP by 45% over 2005 levels, 50% electric installed capacity coming from non-fossil sources by 2030, 1 billion tonnes reduction in carbon emissions till 2030 and India to become net-zero by 2070.

4)The call of Prime Minister at COP26 to the world community to embrace the mantra of LIFE- Lifestyle for Environment, for the mass movement on sustainable lifestyles for combating climate change will help the global community to accelerate climate actions and to bridge the gaps in global climate resilient transition.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3,4

(d) None of these

Ans: c

37) Consider the following about Swachh Bharat Mission – Urban 2.0 :

1)Swachh Bharat Mission-Urban 2.0, launched on 1<sup>st</sup> October 2021, aims to achieve the vision of 'Garbage Free Cities' over the next five years through remediation of legacy dumpsites, construction and demolition waste and plastic waste management.

2)Additionally, sustainable sanitation through faecal sludge and used water management will be a key focus under SBM-U 2.0.

Which of the statements given above is / are correct ?

(a)1 only

(b)2 only

(c) Both 1 and 2

(d) None of these

Ans: c

38)Consider the following :

1)Phytorid Plant: In Dhorka village of Gurugram district, a Phytorid Plant which is fed by drain water and having a capacity of 75 kld was constructed in 2019. It was designed for hydraulic loading of 0.8 m<sup>3</sup>/d/m<sup>2</sup> and organic loading of 3.4 g of BOD<sub>5</sub>/m<sup>2</sup>/h. The parameters of the treated water collected at the outlet are as per discharge norms.

2)Phytorid is a subsurface mixed flow constructed wetland system.

3)The phytorid system is a stand-alone sewage treatment system, based on natural treatment methods which have distinct advantages over conventional treatment plants. The technology is recommended for decentralized plants with varying capacities.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3

(d) None of these

Ans: c

39) Consider the following about Exports of Marine Products :

1)Exports of Marine Products registered a growth of 35% to USD 6.1 Billion during April-December 2021 (Provisional) as compared to USD 4.5 Billion during same period in the year 2020. As compared to April-December 2019 (USD 5.5 Billion) and April-December 2014 (USD 4.4 Billion), exports of Marine Products registered a growth of 12% and 38% respectively.

2)Top 5 export destinations in April-November 2021 (latest available, share% in bracket) are: USA (44.5%), China (15.3%), Japan (6.2%), Vietnam (4%) & Thailand (3%).

3)Frozen shrimps constitute the major share in India's Marine Products exports items with 74% share in value terms (USD); Frozen Fish (7%), Others (6%) and Frozen Squid (5%) constitute the other major items in the Marine Products exports basket in FY2020-21.

4)Others category included primarily Surimi and Surimi analogue (imitation) products.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3,4

(d) None of these

Ans: c

40) Consider the following about PMMSY :

1)The Prime Minister Shri Narendra Modi launched the Pradhan Mantri Matsya Sampada Yojana (PMMSY) in May 2020 with an array of 100 diverse activities.

2)With a budget of Rs. 20,050 crore, it is by far the largest investment to bring about Blue Revolution through sustainable and responsible development of fisheries sector in India.

3)PMMSY, being implemented over a period of 5 years from FY 2020-21 to FY 2024-25 in all States/Union Territories, has set a target of Rs. 1,00,000 crore fisheries export, additional 70 lakh tonnes fish production, and generation of 55 lakh employment in the years to come.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3

(d) None of these

Ans: c

41) Consider the following about exports of RTE,RTC,RTS :

1)The export of products under Ready to Eat (RTE), Ready to Cook (RTC) and Ready to Serve (RTS) segment have registered an CAGR of 10.4 per cent from 2011-12 to 2020-21.

2)India exported more than \$ 2.14 billion worth of final food products in 2020-21.

3)Since final food products are time saving and readily available, the demand for food items under the categories of RTE, RTC and RTS has increased manifold in recent years.

Which of the statements given above is / are correct ?

(a)1 only

(b)1 and 2

(c) 1, 2, and 3

(d) None of these

Ans: c

42) Consider the following :

1) In this period of Amrit Mahotsav, special events related to great personalities of the country are also inspiring us. My government is celebrating the sacred occasions of the 400th Prakash Parv of Guru Tegh Bahadur Ji, the 150th birth anniversary of Sri Aurobindo, the 150th birth anniversary of V.O. Chidambaram Pillai and the 125th birth anniversary of Netaji Subhas Chandra Bose with grandeur.

2) From this year onwards, the government has started the Republic Day celebrations from January 23, the birth anniversary of Netaji.

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 2 only

(d) None of these

Ans: b

43) Consider the following :

1) The present government believes that remembering the past and learning from it are equally important for a secure future of the country.

2) Observance of 'Veer Bal Diwas' on 26th December in the memory of sacrifice of Sahibzadas and 'Vibhajan Vibhishika Smriti Diwas' on 14th August is a reflection of this thinking.

3) The government also decided to celebrate the birth anniversary of Bhagwan Birsa Munda on 15th November as 'Jan-jatiya Gaurav Diwas' as a tribute to him.

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3

(d) None of these

Ans: c

44) Consider the following about combined Index of Eight Core Industries :

1) The combined Index of Eight Core Industries stood at 141.3 in December 2021, which is an increase of 3.8 per cent (provisional) as compared to December 2020. The production of

Coal, Natural Gas, Refinery Products, Fertilizers, Cement and Electricity industries increased in December 2021 over the corresponding period of last year.

2) Index of Eight Core Industries (ICI) for the Month of December, 2021.

3) ICI measures combined and individual performance of production in selected eight core industries viz. Coal, Crude Oil, Natural Gas, Refinery Products, Fertilizers, Steel, Cement and Electricity.

4) The Eight Core Industries comprise 40.27 percent of the weight of items included in the Index of Industrial Production (IIP).

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3,4

(d) None of the above

Ans: c

45) The Eight Core Industries comprise 40.27 percent of the weight of items included in the Index of Industrial Production (IIP). Consider the following :

1) Coal – Coal production (weight: 10.33 per cent) increased by 5.2 per cent in December, 2021 over December, 2020. Its cumulative index increased by 10.6 per cent during April to December, 2021-22 over corresponding period of the previous year.

2) Crude Oil – Crude Oil production (weight: 8.98 per cent) declined by 1.8 per cent in December, 2021 over December, 2020. Its cumulative index declined by 2.6 per cent during April to December, 2021-22 over the corresponding period of previous year.

3) Natural Gas - Natural Gas production (weight: 6.88 per cent) increased by 19.5 per cent in December, 2021 over December, 2020. Its cumulative index increased by 22.4 per cent during April to December, 2021-22 over the corresponding period of previous year.

4) Petroleum Refinery Products – Petroleum Refinery production (weight: 28.04 per cent) increased by 5.9 per cent in December, 2021 over December, 2020. Its cumulative index increased by 10.0 per cent during April to December, 2021-22 over the corresponding period of previous year.

5) Fertilizers – Fertilizers production (weight: 2.63 per cent) increased by 3.5 per cent in December, 2021 over December, 2020. Its cumulative index decreased by 0.1 per cent during April to December, 2021-22 over the corresponding period of previous year.

6) Steel – Steel production (weight: 17.92 per cent) declined by 1.0 per cent in December, 2021 over December, 2020. Its cumulative index increased by 22.1 per cent during April to December, 2021-22 over the corresponding period of previous year.

7)Cement – Cement production (weight: 5.37 per cent) increased by 12.9 per cent in December, 2021 over December, 2020. Its cumulative index increased by 26.1 per cent during April to December, 2021-22 over the corresponding period of previous year.

8)Electricity – Electricity generation (weight: 19.85 per cent) increased by 2.5 per cent in December, 2021 over December, 2020. Its cumulative index increased by 9.4 per cent during April to December, 2021-22 over the corresponding period of previous year.

Which of the statements given above is / are correct ?

- (a)1 only
- (b)1 and 2
- (c) 1, 2, and 3,4,5,6,7,8
- (d) None of the above

Ans: c

46) Consider the following :

1)The President said that the government has integrated different ministries to work in a synergised manner under the Pradhan Mantri Gatishakti National Master Plan to accelerate infrastructure development.

2)Expressing confidence that the plan was going to usher in a new era of multi-modal transport in India, he said that in the future, the railways, highways and airways in India will no longer be separate and isolated infrastructures, but will be an integrated resource to the country.

Which of the statements given above is / are correct ?

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

Ans: b

47) Consider the following about the inflow of foreign money into India :

1)The inflow of 48 billion dollars in investment in the first seven months of the current financial year was a testimony to the belief the global investor community has in India's growth story.

2)Net capital flows were higher at US\$ 65.6 billion in the first half of 2021-22, on account of continued inflow of foreign investment, revival in net external commercial borrowings, higher banking capital and additional special drawing rights (SDR) allocation.

3)As of end-November 2021, India was the fourth largest forex reserves holder in the world after China, Japan and Switzerland.

Which of the statements given above is / are correct ?

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

Ans: c

48)

Consider the following about Hoysala Temples :

1)The Hoysala Temples of Belur, Halebid and Somnathapura in Karnataka have been finalised as India's nomination for consideration as World Heritage for the year 2022-2023.

2)The 'Sacred Ensembles of the Hoysala' are on UNESCO's Tentative list since 15th April, 2014 and represent one of the highest points of human creative genius and stand testimony to the rich historical and cultural heritage of our country.

3)The sacred ensembles of the Hoysalas, built in the 12th-13th centuries and represented here by the three components of Belur, Halebid and Somnathapura, attest to the creativity and skill of the Hoysala artists and architects who built these masterpieces of a kind never seen before or since.

4)The Hoysala architects used their profound knowledge of temple architecture in different parts of India to their advantage.

5)The Hoysala temples have a basic Dravidian morphology but show strong influences of the Bhumija mode widely used in Central India, the Nagara traditions of northern and western India, and the Karnataka Dravida modes favoured by the Kalyani Chalukyas.

6)Therefore, the Hoysala architects made considered and informed eclectic selections of features from other temple typologies which they further modified and then complemented with their own particular innovations. The result was the birth of a completely novel 'Hoysala Temple' form.

Which of the statements given above is / are correct ?

- (a)1 only
- (b)1 and 2
- (c) 1, 2, and 3,4,5,6
- (d) None of the above

Ans: c



49) The Union Minister for Finance & Corporate Affairs, Smt. Nirmala Sitharaman presented the Economic Survey 2021-22 in Parliament .

Consider the following :

1) Indian economy estimated to grow by 9.2 percent in real terms in 2021-22 (as per first advanced estimates) subsequent to a contraction of 7.3 percent in 2020-21.

2) GDP projected to grow by 8- 8.5 percent in real terms in 2022-23.

3) The year ahead poised for a pickup in private sector investment with the financial system in good position to provide support for economy's revival.

4) Projection comparable with World Bank and Asian Development Bank's latest forecasts of real GDP growth of 8.7 percent and 7.5 percent respectively for 2022-23.

5) As per IMF's latest World Economic Outlook projections, India's real GDP projected to grow at 9 percent in 2021-22 and 2022-23 and at 7.1 percent in 2023-2024, which would make India the fastest growing major economy in the world for all 3 years.

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3,4,5

(d) None of the above

Ans: c

50) ) The Union Minister for Finance & Corporate Affairs, Smt. Nirmala Sitharaman presented the Economic Survey 2021-22 in Parliament .

Consider the following:

1) Agriculture and allied sectors expected to grow by 3.9 percent; industry by 11.8 percent and services sector by 8.2 percent in 2021-22.

2) On demand side, consumption estimated to grow by 7.0 percent, Gross Fixed Capital Formation (GFCF) by 15 percent, exports by 16.5 percent and imports by 29.4 percent in 2021-22.

3) Macroeconomic stability indicators suggest that the Indian Economy is well placed to take on the challenges of 2022-23.

4) Combination of high foreign exchange reserves, sustained foreign direct investment, and rising export earnings will provide adequate buffer against possible global liquidity tapering in 2022-23.

5)Economic impact of "second wave" was much smaller than that during the full lockdown phase in 2020-21, though health impact was more severe.

6)Government of India's unique response comprised of safety-nets to cushion the impact on vulnerable sections of society and the business sector, significant increase in capital expenditure to spur growth and supply side reforms for a sustained long-term expansion.

7)Government's flexible and multi-layered response is partly based on an "Agile" framework that uses feedback-loops, and the use of eighty High Frequency Indicators (HFIs) in an environment of extreme uncertainty.

Which of the statements given above is / are correct ?

- (a)1 only
- (b)1 and 2
- (c) 1, 2, and 3,4,5,6,7
- (d) None of the above

Ans: c

51) Services Sector contributed over 50% to India's GDP, highlighted the Economic Survey 2021-22 which was tabled by the Union Minister for Finance and Corporate Affairs, Smt. Nirmala Sitharaman in Parliament . The Survey also noted that Services Sector registered a steady recovery during the first half of the current fiscal year. *"Overall, the Services Sector grew by 10.8% Year on Year (YoY) in first half (H1) 2021-22"*, stated the Survey.

Consider the following about Trade In Services :

- 1)IT-BPM (Information technology - Business Process Management) Sector
- 2)Startups and Patents
- 3)Tourism Sector
- 4)Ports, Shipping and Waterways Services
- 5)Space Sector

Which of the statements given above is / are correct ?

- (a)1 only
- (b)1 and 2
- (c) 1, 2, and 3,4,5
- (d) None of the above

Ans: c

52) Consider the following about Nominal GDP , Real GDP , PCI of India, and PFCE :

1) Nominal GDP or GDP at current prices for the year 2020-21 is estimated at Rs.198.01 lakh crore as against Rs.200.75 lakh crore for the year 2019-20, showing a contraction of 1.4 per cent during 2020-21 as compared to growth of 6.2 per cent during 2019-20.

2. Real GDP or GDP at constant (2011-12) prices for the years 2020-21 and 2019-20 stands at Rs.135.58 lakh crore and Rs.145.16 lakh crore, respectively, showing a contraction of 6.6 per cent during 2020-21 as compared to growth of 3.7 per cent during 2019-20.

3.Per Capita Income i.e. Per Capita Net National Income at current prices is estimated at Rs.1,32,115 and Rs.1,26,855 respectively for the years 2019-20 and 2020-21.

4.Per Capita PFCE at current prices for the years 2019-20 and 2020-21 is estimated at Rs.91,254 and Rs.88,775 respectively

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3,4

(d) None of the above

Ans: c

53) Consider the following :

1)GVA at basic prices (Production Approach) = Output at basic price - Intermediate Consumption

2)GVA at basic prices (Income Approach) = CE + OS/MI + CFC + Production taxes less Production subsidies<sup>(i)</sup>

3)GDP =  $\Sigma$  GVA at basic prices + Product taxes less Product subsidies<sup>(ii)</sup>

3)NDP/NNI = GDP/GNI - CFC

4)GNI = GDP + Net primary income from ROW (Receipts less payments)

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3,4

(d) None of the above

Ans: c

54)Consider the following :

1)Primary Incomes = CE + Property and Entrepreneurial Income

2)  $NNDI = NNI + \text{other current transfers}^{(iii)} \text{ from ROW, net (Receipts less payments)}$

3)  $GNDI = NNDI + CFC = GNI + \text{other current transfers}^{(iii)} \text{ from ROW, net (Receipts less payments)}$

4)  $\text{Gross Capital Formation}^{(iv)} \text{ (Financing Side)} = \text{Gross Savings} + \text{Net Capital Inflow from ROW}$

5)  $GCF \text{ (Expenditure Side)} = GFCF + CIS + \text{Valuables}$

6)  $\text{Gross Disposable Income of Govt.} = GFCE + \text{Gross Saving of General Government}$

7)  $\text{Gross Disposable Income (GDI) of Households} = GNDI - \text{GDI of Govt.} - \text{Gross Savings of All Corporations}$

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3,4,5,6,7

(d) None of the above

Ans: c

55) Consider the following :

*1) Production taxes or subsidies are paid or received with relation to production and are independent of the volume of actual production. Some examples are:*

*2) Production Taxes - Land Revenues, Stamps & Registration fees and Tax on profession*

*3) Production Subsidies - Subsidies to Railways, Subsidies to village and small industries.*

Which of the statements given above is / are correct ?

(a) 1 only

(b) 1 and 2

(c) 1, 2, and 3

(d) None of the above

Ans: c

56) Consider the following :

*1) Product taxes or subsidies are paid or received on per unit of product. Some examples are:*

*Product Taxes- Excise duties, Sales tax, Service Tax and Import, Export duties*

*Product Subsidies- Food, Petroleum and fertilizer subsidies.*

2) *Other Current Transfers* refers to current transfers other than the primary incomes.

3) *Gross Capital Formation (GCF)* at the current as well as the constant prices is estimated by two approaches: – (i) through flow of funds, derived as Gross Saving plus net capital flow from Rest of the World (RoW); and (ii) by the commodity flow approach, derived by the type of assets. The estimates of GCF through the flow of funds approach are treated as the firmer estimates. GCF by industry of use and by institutional sectors does not include 'valuables' and therefore, these estimates are lower than the estimates available from commodity flow approach.

Which of the statements given above is / are correct ?

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

Ans: c