

ANSWER KEY OF UPSC PRELIMS MOCK TEST 6

1. Consider the following statements regarding the PM- Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM):

1. Renewable power plants will be setup by individual farmers, cooperatives, panchayats, farmer producer organisations (FPO) on their barren or cultivable lands.
2. Individual farmers will be supported to install standalone solar pumps.

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

Correct Answer: C

Explanation:

Both statements are correct.

The PM KUSUM scheme aims to add solar and other renewable capacity of 25,750 MW by 2022.

The Scheme consists of three components:

Component A: 10,000 MW of Decentralized Ground Mounted Grid Connected Renewable Power Plants of individual plant size up to 2 MW.

-Renewable power plants of capacity 500 KW to 2 MW will be setup by individual farmers/cooperatives/panchayats /farmer producer organisations (FPO) on their barren or cultivable lands. The power generated will be purchased by the DISCOMs at Feed in tariffs determined by respective SERC.

Component B: Installation of 17.50 lakh standalone Solar Powered Agriculture Pumps of individual pump.

-Individual farmers will be supported to install standalone solar Agriculture pumps of capacity up to 7.5 HP.

Component C: Solarisation of 10 Lakh Grid-connected Agriculture Pumps of individual pump capacity up to 7.5 HP.

-Individual farmers will be supported to solarise pumps of capacity up to 7.5 HP.

For both Component-B and Component-C, central financial assistance (CFA) of 30% of the benchmark cost or the tender cost, whichever is lower, will be provided. The State Government will give a subsidy of 30%; and the remaining 40% will be provided by the farmer.

2. Which of the following country(s) has/have recently proposed a Supply Chain Resilience in Indo-Pacific initiative?

1. United States of America
2. Japan
3. Australia

Select the correct answer using the code given below:

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

Correct Answer: B

Explanation:

Australia-India-Japan Economic Ministers trilateral meeting proposed an initiative for Supply chain resilience in the Indo- Pacific.

The joint statement reads “In light of the COVID-19 crisis and the recent global-scale changes in the economic and technological landscape, the Ministers underscored the necessity and potential to enhance the resiliency of supply chains in the Indo-Pacific region.

Recognizing the pressing need for regional cooperation on supply chain resilience in the Indo-Pacific, the Ministers shared their intention to work toward the launch of a new initiative to achieve the objective through cooperation. They instructed their officials to promptly work out the details of the new initiative for its launch later this year. The Ministers noted the important role of business and academia in realizing the objective.”

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3. Consider the following statements regarding the *Mission Karmayogi*:

1. The mission emphasizes on 'on-site learning' to complement the 'off-site' learning of the civil servants.
2. It is to be delivered by setting up an Integrated Government Online Training (iGOT Karmayogi) Platform.
3. A Public Human Resources Council under the chairmanship of the Prime Minister to be set up.

Which of the statements given above is/are correct?

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

Correct Answer: D

Explanation:

All of the above statements are correct.

Union cabinet recently approved the Mission Karmayogi – National Programme for Civil Services Capacity Building (NPCSCB) with the following institutional framework:

-Prime Minister's Public Human Resources Council,

-Capacity Building Commission.

-Special Purpose Vehicle for owning and operating the digital assets and the technological platform for online training,

-Coordination Unit headed by the Cabinet Secretary.

The Programme will be delivered by setting up an Integrated Government Online Training-iGOT Karmayogi Platform. Some of the guiding principles of the Programme:

– Supporting Transition from 'Rules based' to 'Roles based' HR Management.

– To emphasize on 'on-site learning' to complement the 'off-site' learning,

– To calibrate all Civil Service positions to a Framework of Roles, Activities and Competencies (FRACs) approach.

It is also proposed to set up a Capacity Building Commission, with a view to ensure a uniform approach in managing and regulating the capacity building ecosystem on collaborative and co-sharing basis.

A Public Human Resources Council comprising of select Union Ministers, Chief Ministers, eminent public HR practitioners, thinkers, global thought leaders and Public Service functionaries under the Chairmanship of Prime Minister will serve as the apex body for providing strategic direction to the task of Civil Services Reform and capacity building.

4. The 'two plus two dialogue' has been in news recently, which of the following Minister(s) take part in the dialogue?

1. Minister of Defense
2. Minister of External Affairs
3. Minister of Commerce & Industry

Select the correct answer using the code given below:

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

Correct Answer: A

Explanation:

A 'two plus two dialogue' is a term, adopted in foreign parleys, used for installation of a dialogue mechanism between two countries' defence and external affairs ministries.

Government of India's Ministers of Defense and External Affairs have in past held the 'two plus two dialogue' with Japan and United States. Secretary level 2+2 dialog have been held with Australia.

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5. Consider the following statements regarding the POSHAN Abhiyaan:

1. It aims at improving nutritional outcomes for children, pregnant women and lactating mothers.
2. Ministry of Women and Child Development is the nodal Ministry for POSHAN Abhiyaan.

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

Correct Answer: C

Explanation:

Both statements are correct.

The Prime Minister's Overarching Scheme for Holistic Nutrition or POSHAN Abhiyaan or National Nutrition Mission, is Government of India's flagship programme to improve nutritional outcomes for children, pregnant women and lactating mothers.

For implementation of POSHAN Abhiyaan the four-point strategy/pillars of the mission are:

- Inter-sectoral convergence for better service delivery
- Use of technology (ICT) for real time growth monitoring and tracking of women and children
- Intensified health and nutrition services for the first 1000 days
- Jan Andolan

The Ministry of Women and Child Development is the nodal Ministry for POSHAN Abhiyaan. The programme through the targets strives to reduce the level of stunting, under-nutrition, anemia and low birth weight babies. It will create synergy, ensure better monitoring, issue alerts for timely

action, and encourage States/UTs to perform, guide and supervise the line Ministries and States/UTs to achieve the targeted goals.

The 3rd Rashtriya Poshan Maah is being celebrated during the month of September 2020.

6. Which of the following is/are diagnostic test(s) for the COVID-19 disease?

1. Standard Q COVID-19 Ag detection
2. Saliva Direct
3. RT-PCR test

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

All of the above are diagnostic tests for COVID-19.

Standard Q COVID-19 Ag detection kit is a rapid chromatographic immunoassay for qualitative detection of specific antigens to SARS-CoV-2 has been developed by SD Biosensor, a South Korea based company.

SalivaDirect is a real-time reverse transcription polymerase chain reaction (rRT-PCR) test intended for the qualitative detection of nucleic acid from SARS-CoV-2 in saliva collected without preservatives in a sterile container from individuals suspected of COVID-19 by their healthcare provider.

The COVID-19 RT-PCR test is a real-time reverse transcription polymerase chain reaction (rRT-PCR) test for the qualitative detection of nucleic acid from SARS-CoV-2 in upper and lower respiratory specimens (such as nasopharyngeal or oropharyngeal swabs, sputum, lower respiratory tract aspirates, bronchoalveolar lavage, and nasopharyngeal wash/aspirate) collected from individuals suspected of COVID 19.

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7. Consider the following statements regarding the Start-Up Village Entrepreneurship Programme (SVEP):

1. It is a sub-scheme under the Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM).
2. It promotes individual and group enterprises majorly in manufacturing, trading and service sectors.

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

Correct Answer: C

Explanation:

Statement 1 is correct. Start-Up Village Entrepreneurship Programme (SVEP) is implemented by Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM), Ministry of Rural Development, as a sub-scheme since 2016.

Activities under SVEP are designed to promote rural enterprises, one of the key areas is to develop pool of community resource persons – enterprise promotion (CRP-EP) who are local and support entrepreneurs setting-up rural enterprises.

Another key area is to promote the block resource center (BRC) in SVEP blocks, to monitor and manage the community resource persons, appraise SVEP loan application and acts as the repository of enterprise related information in the concern block.

Statement 2 is correct. SVEP promotes both individual and group enterprises, set-up and promote enterprises majorly on manufacturing, trading and service sectors. The program invested largely on building the capacities of the entrepreneurs to run the businesses profitably based on the local demand and eco-system.

8. Consider the following statements regarding the ‘Levels and Trends in Child Mortality: Report 2020’ from UNICEF:

1. Nigeria and India alone account for almost a third of all under-five deaths in 2019.
2. The under-five mortality rate saw more than fifty per cent reduction from 1990 to 2019.

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

Correct Answer: C

Explanation:

Both statements are correct.

The recent ‘Levels and Trends in Child Mortality: Report 2020’ from UNICEF and partners in the UN Inter-Agency Group for Child Mortality Estimation (UN IGME), shows the full scope of child mortality rates across the world – from newborns to adolescents, including for the first time this year, estimates for youth aged 15–24 years – as well as the progress made toward meeting the SDG targets by 2030.

The under-five mortality rate was reduced from 93 deaths per 1,000 live births in 1990 to 38 deaths in 2019—a 59 per cent reduction (see Table 1). One in every 11 children died before reaching their fifth birthday in 1990. By 2019, that number was reduced to 1 in 27.

Nearly half (49 per cent) of all under-five deaths in 2019 occurred in just five countries: Nigeria, India, Pakistan, the Democratic Republic of the Congo and Ethiopia. Nigeria and India alone account for almost a third.

The under-five mortality rate (deaths per 1,000 live births) in India declined to 34 in 2019 from 126 in 1990.

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9. Which of the following statement correctly defines a 'Status of forces agreement' (SOFA)?

- (a) Agreement to maintain status quo at border region between two nations
- (b) A regional agreement to maintain nuclear-weapon-free zone
- (c) Agreement of mutual defense in case of external aggression
- (d) Agreement between a host country and a foreign nation for stationing military forces

Correct Answer: D

Explanation:

A status of forces agreement (SOFA) is an agreement between a host country and a foreign nation stationing military forces in that country. It establishes the rights and privileges of foreign personnel present in a host country in support of the larger security arrangement.

United States military has the largest foreign presence and therefore accounts for most SOFAs, the United Kingdom, France, Australia, Germany, Italy, Russia, Spain, and many other nations also station military forces abroad and negotiate SOFAs with their host countries.

The US has decided to withdraw more than a third of its troops from Iraq.

10. Consider the following statements regarding the Jigyasa programme:

- 1. It is a student-scientist connect programme focusing on research laboratory-based learning.
- 2. It is being implemented by the Council of Scientific and Industrial Research (CSIR).

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

Correct Answer: C

Explanation:

Both statements are correct.

JIGYASA is a student-scientist connect programme of Council of Scientific and Industrial Research (CSIR) in collaboration with Kendriya Vidyalaya Sangathans (KVS). Its objective is to extend the classroom leaning and focusing on a well-planned research laboratory-based learning.

Student Residential Programmes, scientists as teachers and teachers as scientists, lab specific activities/Onsite Experiments, visits of scientists to Schools/Outreach Programmes, science and maths Clubs, projects of National Children's Science Congress and tinkering laboratories are some of the activities included under the programme.

11. Which of the following is/are correctly matched?

- 1. RECOVERY trial – Coalition for Epidemic Preparedness Innovations
- 2. Solidarity trial – World Health Organization
- 3. COVAX – Gavi, the Vaccine Alliance

Select the correct answer using the code given below:

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

Correct Answer: B

Explanation:

Option 1 is incorrect. Randomised Evaluation of COVID-19 Therapy (RECOVERY Trial) is supported by a grant to the University of Oxford from United Kingdom Research and Innovation/National Institute for Health Research (NIHR).

RECOVERY Trial is currently testing some of these suggested treatments:

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-Low-dose Dexamethasone (now only recruiting children)

-Azithromycin (a commonly used antibiotic)

-Tocilizumab (an anti-inflammatory treatment given by injection)

-Convalescent plasma (collected from donors who have recovered from COVID-19 and contains antibodies against the SARS-CoV-2 virus).

Option 2 is correct. Solidarity is an international clinical trial to help find an effective treatment for COVID-19, launched by the World Health Organization and partners.

The treatment options are: Remdesivir and Lopinavir/Ritonavir with Interferon beta-1a. On 4 July 2020, WHO accepted the recommendation from the Solidarity Trial's International Steering Committee to discontinue the trial's hydroxychloroquine and lopinavir/ritonavir arm.

Option 3 is correct. COVAX is co-led by Gavi, the Coalition for Epidemic Preparedness Innovations (CEPI) and WHO. Its aim is to accelerate the development and manufacture of COVID-19 vaccines, and to guarantee fair and equitable access for every country in the world.

COVAX is the vaccines pillar of the Access to COVID-19 Tools (ACT) Accelerator.

12. Consider the following statements regarding the Aatmanirbhar Bharat ARISE-ANIC Initiative:

1. It has been launched by the Atal Innovation Mission.
2. The programme will support applied research-based innovations by providing funding support for speedy development of the product.

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

Correct Answer: C

Explanation:

Both statements are correct.

Atal Innovation Mission (AIM), NITI Aayog, recently launched the Aatmanirbhar Bharat ARISE-Atal New India Challenges, to spur applied research and innovation in Indian MSMEs and startups.

The programme will be driven by Indian Space Research Organization (ISRO), four ministries—Ministry of Defence; Ministry of Food Processing Industries; Ministry of Health and Family Welfare; and Ministry of Housing and Urban Affairs—and associated industries to facilitate innovative solutions to sectoral problems.

The ARISE-ANIC programme will support deserving applied research-based innovations by providing funding support of up to Rs 50 lakh for speedy development of the proposed technology solution and/or product.

13. What is the mandate of the recently constituted Rajiv Mehrishi committee?

- (a) Economic impact of interest waivers under COVID-19 related loan moratorium
- (b) Assess the adequate size of capital reserves that the RBI should hold
- (c) Financial parameters for restructuring of loans impacted by the COVID-19 pandemic
- (d) Constitution of the Public Debt Management Agency

Correct Answer: A

Explanation:

The government has recently set up an expert committee headed by former comptroller and auditor general (CAG) Rajiv Mehrishi to assess the impact of “waiving of interest and waiving of interest on interest on the Covid-19-related moratorium” on the economy and financial stability.

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The Reserve Bank of India (RBI) had in March this year allowed banks to offer a three-month moratorium on principal and interest payments beginning March 1 to provide relief to borrowers hit by the Covid-19 pandemic. This was later extended by another three months to August 31.

14. Consider the following statements regarding the Phosphine gas:

1. It is a colorless flammable gas.
2. It is an artificially produced gas and does not occur naturally.

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

Correct Answer: A

Explanation:

Statement 1 is correct. Phosphine is a colorless, flammable, and explosive gas at ambient temperature.

Statement 2 is incorrect. It is a natural gaseous carrier of phosphorus in its biogeochemical cycles, has been found ubiquitously present in the environment. Small amounts occur naturally from the breakdown of organic matter.

Recent discovery of phosphine on Venus has sparked debate on presence of life outside Earth. On rocky planets such as Venus and Earth, phosphine can only be made by life—whether human or microbe.

Phosphine is manufactured as an agricultural fumigant, is used in the semiconductor industry, and is a byproduct of meth labs.

But phosphine is also made naturally by some species of anaerobic bacteria—organisms that live in the oxygen-starved environments of landfills, marshlands, and even animal guts.

15. The ‘Global Initiative to reduce Land Degradation and Coral Reef’ program has

been launched under which of the following group/organization?

- (a) Group of Twenty (G-20)
- (b) United Nations Environment Program
- (c) World Wide Fund for Nature
- (d) International Union for Conservation of Nature

Correct Answer: A

Explanation:

The Environment Ministerial Meeting (EMM) of the G20 countries took place recently through video conferencing under the Presidency of Kingdom of Saudi Arabia.

The Global Initiative to reduce Land Degradation and Coral Reef program under the G20 aims to strengthen the implementation of existing frameworks to prevent, halt, and reverse land degradation within G20 member states and globally, taking into account possible implications on the achievement of other SDGs and adhering to the principle of doing no harm.

The Global Coral Reef R&D Accelerator Platform is an innovative action-oriented initiative aimed at creating a global research and development (R&D) program to advance research, innovation and capacity building in all facets of coral reef conservation, restoration, and adaptation, and strengthen ongoing efforts and commitments made to enhance coral reefs conservation and their further degradation.

16. Which of the following is/are the Nationally Determined Contributions (NDC) of India under the Paris Agreement?

1. To reduce the emissions intensity of GDP by 33 to 35 percent by 2030 below 2005 levels.
2. To increase the share of non-fossil-based energy resources to 40 percent of installed electric power capacity by 2030.
3. To create an additional carbon sink of 2.5–3 billion tonnes of CO₂ equivalent through additional forest and tree cover by 2030.

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Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

All of the above are India's Nationally Determined Contributions (NDC) under Paris Agreement.

India's national climate action plans, known in UN parlance as nationally determined contributions (NDCs), under the Paris Agreement set three major goals—

-To reduce the emissions intensity of GDP by 33%–35% by 2030 below 2005 levels.

-To increase the share of non-fossil-based energy resources to 40% of installed electric power capacity by 2030, with help of transfer of technology and low-cost international finance including from Green Climate Fund (GCF).

-To create an additional (cumulative) carbon sink of 2.5–3 GtCO₂e through additional forest and tree cover by 2030.

17. Consider the following statements regarding the Blue Flag certification:

1. It is an eco-label awarded to beaches, marinas, and sustainable boating tourism operators.
2. The certification is accorded by UN Environment Program under Ramsar Convention.

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

Correct Answer: A

Explanation:

Statement 1 is correct. The iconic Blue Flag is one of the world's most recognized voluntary eco-labels awarded to beaches, marinas, and sustainable boating tourism operators.

In order to qualify for this prestigious award, a series of stringent environmental, educational, safety-related and access-related criteria must be met and maintained.

It has 33 stringent criteria in four major heads—environmental education and information, bathing water quality, environment management and conservation and safety and services in the beaches.

Statement 2 is incorrect. Blue Flag programme is operated under the auspices of the Foundation for Environmental Education and is headquartered in Copenhagen, Denmark.

Eight beaches of the country have been recommended for the coveted 'Blue Flag' international eco-label: Shivrajpur in Gujarat, Ghoghla in Daman and Diu, Kasarkod and Padubidri in Karnataka, Kappad in Kerala, Rushikonda in Andhra Pradesh, Golden in Odisha and Radhanagar in Andaman and Nicobar Islands.

18. Consider the following statements regarding the Doing Business Report:

1. It is a World Bank Group flagship publication measuring the regulations that enhance and constrain business activity.
2. It covers enforcing contracts and resolving insolvency, areas of business regulation in countries.

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

Correct Answer: C

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Correct Answer: C

Explanation:

Statement 1 is correct. Doing Business is a World Bank Group flagship publication, it is a series of annual studies measuring the regulations that enhance business activity and those that constrain it. Doing Business presents quantitative indicators on business regulations and the protection of property rights that can be compared across 190 economies—from Afghanistan to Zimbabwe—and over time.

Statement 2 is correct. Doing Business covers 12 areas of business regulation. Ten of these areas—starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting minority investors, paying taxes, trading across borders, enforcing contracts, and resolving insolvency.

Doing Business also measures regulation on employing workers and contracting with the government, which are not included in the ease of doing business score and ranking.

The World Bank has paused the publication of its 'Doing Business' report because of statistical irregularities.

19. Consider the following statements regarding the Farmers' Produce Trade and Commerce (Promotion and Facilitation) Bill, 2020:

1. It allows intra-state and inter-state trade of farmers' produce outside premises of market yards formed under the state APMC Acts.
2. It prohibits state governments from levying market fee on farmers for trade of farmers' produce conducted in specific areas.

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

Explanation:

Statement 1 is correct. The Farmers' Produce Trade and Commerce (Promotion and Facilitation) Bill, 2020 allows intra-state and inter-state trade of farmers' produce outside: (i) the physical premises of market yards run by market committees formed under the state APMC Acts and (ii) other markets notified under the state APMC Acts.

Such trade can be conducted in an 'outside trade area', i.e., any place of production, collection, and aggregation of farmers' produce including: (i) farm gates, (ii) factory premises, (iii) warehouses, (iv) silos, and (v) cold storages.

It also permits the electronic trading of scheduled farmers' produce (agricultural produce regulated under any state APMC Act) in the specified trade area.

Statement 2 is correct. The bill prohibits state governments from levying any market fee, cess or levy on farmers, traders, and electronic trading platforms for trade of farmers' produce conducted in an 'outside trade area'.

20. Which of the following is/are determinants of Minimum Support Price (MSP)?

1. Demand and supply
2. Inter-crop price parity
3. Cost of production

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

All of the above are determinants of MSP. It is based on the recommendations of the Commission for Agricultural Costs and Prices (CACP).

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The idea behind MSP is to give guaranteed prices and assured market to the farmers and save them from the price fluctuations. It insulates farmers from the unwarranted fluctuation in prices caused by the variation in supply (largely influenced by the monsoon), lack of market integration, information asymmetry and other elements of market imperfection plaguing the agricultural markets.

In formulating the recommendations in respect of the level of minimum support prices and other non-price measures, the Commission takes into account Cost of production, Changes in input prices, Input-output price parity, Trends in market prices, Demand and supply, Inter-crop price parity etc.

21. Which of the following country(s) recently signed the Abraham Accords?

1. Jordan
2. Israel
3. Bahrain

Select the correct answer using the code given below:

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

Correct Answer: B

Explanation:

Through the recently signed Abraham Accords, Israel and two Arab Gulf states, the United Arab Emirates and Bahrain, have formally and publicly established diplomatic relations.

The U.A.E. and Bahrain are the third and fourth Arab countries to open diplomatic relations with Israel; Egypt and Jordan were the first two.

The UAE and Bahrain do not have any territorial dispute with Israel, nor have they ever been at war with it.

22. Consider the following statements regarding the New START Treaty:

1. It is a verifiable U.S.-Russian nuclear arms control treaty.
2. It limits the deployed and non-deployed intercontinental ballistic missiles (ICBMs) and submarine-launched ballistic missiles (SLBMs).

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

Correct Answer: A

Explanation:

Statement 1 is correct. The New Strategic Arms Reduction Treaty (New START) was signed April 8, 2010, in Prague by the United States and Russia. New START replaced the 1991 START I treaty, which expired December 2009, and superseded the 2002 Strategic Offensive Reductions Treaty (SORT), which terminated when New START entered into force.

New START is the first verifiable U.S.-Russian nuclear arms control treaty to take effect since START I in 1994.

Statement 2 is incorrect. New START limits went into effect in 2018. It capped accountable deployed strategic nuclear warheads and bombs at 1,550, down approximately 30 percent from the 2,200 limit set by SORT and down 74 percent from the START-accountable limit of 6,000.

Deployed intercontinental ballistic missiles (ICBMs), submarine-launched ballistic missiles (SLBMs), and heavy bombers assigned to nuclear missions are limited to 700.

Deployed and non-deployed ICBM launchers, SLBM launchers, and bombers are limited to 800.

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New START does not limit the number of non-deployed ICBMs and SLBMs, but it does monitor them.

The treaty's duration is ten years from entry into force (Feb. 2021) unless it is superseded by a subsequent agreement and can be extended for an additional five years, until 2026.

23. Which of the following is/are correctly matched?

1. INS Vikrant – Indigenous Aircraft Carrier (IAC-I)
2. Rafale – Twin-engine multirole fighter aircraft
3. Astra – Beyond visual range air-to-air missile

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

India's first Indigenous Aircraft Carrier (IAC-I) INS Vikrant is under construction at Kochi Shipyard and is soon expected to undergo sea trials. Since 2017, after INS Viraat was decommissioned, India has been operating a single carrier — INS Vikramaditya.

The Dassault Rafale is a twin-jet combat aircraft capable of carrying out a wide range of short and long-range missions, including ground and sea attacks, designed and built by Dassault Aviation.

Astra is an all-weather beyond-visual-range air-to-air missile developed by the Defence Research and Development Organisation.

24. Defence Research and Development Organization (DRDO) recently conducted the flight test of ABHYAS, what is it?

- (a) High-speed Expendable Aerial Target
- (b) Anti-Tank Guided Missile
- (c) Multi barrel rocket launcher
- (d) Beyond visual range air-to-air missile

Correct Answer: A

Explanation:

The Defence Research and Development Organisation (DRDO) recently successful flight test of ABHYAS – High-speed Expendable Aerial Target from the Interim Test Range, Balasore in Odisha.

Abhyas is designed and developed by Aeronautical Development Establishment of DRDO.

The air vehicle is launched using twin underslung booster. It is powered by a small gas turbine engine and has MEMS (Microelectromechanical Systems) based Inertial Navigation System for navigation along with the Flight Control Computer for guidance and control.

25. Consider the following statements regarding the PM SVANidhi scheme:

1. This is a Central Sector Scheme to facilitate street vendors to access affordable working capital loan.
2. Credit can be availed from the Scheduled Commercial Banks as well as Regional Rural Banks.

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

Correct Answer: C

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Explanation:

Statement 1 is correct. The PM Street Vendor's AtmaNirbhar Nidhi (PM SVANidhi) is a Central Sector Scheme of Ministry of Housing and Urban Affairs to facilitate street vendors to access affordable working capital loan for resuming their livelihoods activities, after easing of lockdown.

Statement 2 is correct. The credit is being provided by Scheduled Commercial Banks, Regional Rural Banks, Small Finance Banks, Cooperative Banks, Non-Banking Financial Companies, Micro-Finance Institutions and SHG Banks.

Salient features of the Scheme:

- Initial working capital of up to `10,000/-
- Interest subsidy on timely/ early repayment at 7%
- Monthly cash-back incentive on digital transactions
- Higher loan eligibility on timely repayment of the first loan

26. The Indo-Pacific Division of the Ministry of External Affairs deals with which of the following matters?

1. East Asia Summit
2. Indian Ocean Rim Association (IORA)
3. Asia-Europe Meeting (ASEM)

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

Given the increasing salience of the Indo-Pacific concept in global discourse, the Ministry of External Affairs established a new Division for the Indo-Pacific in April 2019.

Indo-Pacific Division deals with matters relating to the Indo-Pacific, India-ASEAN relations, East Asia Summit, Indian Ocean Rim Association (IORA), Asia-Europe Meeting (ASEM), Mekong-Ganga Cooperation (MGC) and Ayeyawady-Chao Phraya-Mekong Economic Cooperation Strategy (ACMECS).

Asia Europe Meeting (ASEM) is the biggest inter-governmental process between Asia and Europe. It currently has 53 Partners – 51 countries and 2 regional organisations (ASEAN and European Union).

27. Consider the following statements regarding the Rights of Good Samaritans in India:

1. No police officer shall compel a Good Samaritan to disclose his/her name.
2. Every public and private hospital shall publish a charter stating the rights of Good Samaritans.

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

Correct Answer: C

Explanation:

The Ministry of Road Transport and Highways has published the rules stating the rights of Good Samaritans:

- They shall be treated respectfully without any discrimination on the grounds of religion, nationality, caste or sex.
- No police officer or any other person shall compel a Good Samaritan to disclose his/her name, identity, address or any such other personal details. However, he may voluntarily choose to disclose the same.
- Every public and private hospital shall publish a charter in Hindi, English and vernacular language, at the entrance or other conspicuous location, and on their website, stating the rights of Good

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Samaritans under the Act and the rules made thereunder.

– If a person has voluntarily agreed to become a witness in the case in which he has acted as a Good Samaritan, he shall be examined in accordance with the provisions of this rule, for which detailed guidelines and process has been mentioned in the rules.

28. What is the purpose of recently inaugurated VAIBHAV Summit?

- (a) Showcase India's natural biodiversity
- (b) Leveraging the expertise and knowledge of global Indian researchers
- (c) Promoting niche tourism in India
- (d) Promoting responsible Artificial Intelligence for social empowerment

Correct Answer: B

Explanation:

The Vaishvik Bhartiya Vaigyanik (VAIBHAV) Summit is a global virtual summit of overseas and resident Indian Researchers and Academicians.

It is a collaborative initiative by S&T and Academic Organizations of India to enable deliberations on thought process, practices and R&D culture with a problem-solving approach for well-defined objectives.

The VAIBHAV initiative aims to bring out the comprehensive roadmap to leverage the expertise and knowledge of global Indian researcher for solving emerging challenges. By bringing the Indian Overseas and Resident academicians/scientists together a structure of association will be evolved.

The summit will reflect on the collaboration and cooperation instruments with academia and scientists in India and abroad. The goal is to create an ecosystem of Knowledge and Innovation in the country through global outreach.

29. Which of the following is/are defence exercise(s) between India and Bangladesh?

- 1. Exercise Bongosagar
- 2. Exercise Sampriti

Select the correct answer using the code given below:

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

Correct Answer: C

Explanation:

Option 1 is correct. The second edition of Indian Navy (IN) – Bangladesh Navy (BN) Bilateral Exercise Bongosagar is scheduled to commence in Northern Bay of Bengal on 03 October 2020. Exercise Bongosagar, whose first edition was held in 2019, is aimed at developing inter-operability and joint operational skills through conduct of a wide spectrum of maritime exercises and operations.

Option 2 is correct. SAMPRITI series of joint exercise is a very important military engagement between Armies of India and Bangladesh. The 9th edition of the joint Exercise SAMPRITI was held in February 2020.

30. The Global Biodiversity Outlook (GBO) is a flagship publication of which of the following convention/protocol?

- (a) Kyoto Protocol
- (b) Convention on Biological Diversity
- (c) United Nations Framework Convention on Climate Change
- (d) Montreal Protocol

Correct Answer: B

Explanation:

Global Biodiversity Outlook (GBO) is the flagship publication of the Convention on Biological Diversity (CBD).

It is a periodic report that summarizes the latest data on the status and trends of biodiversity and

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draws conclusions relevant to the further implementation of the Convention. GBO-5 released recently provides global summary of progress towards the Aichi Biodiversity Targets and is based on a range of indicators, research studies and assessments (in particular the IPBES Global Assessment on Biodiversity and Ecosystem Services), as well as the national reports provided by countries on their implementation of the CBD.

The fifth edition of Global Biodiversity Outlook (GBO-5) is the final report card on progress against the 20 global biodiversity targets agreed in 2010 with a 2020 deadline, and offers lessons learned and best practices for getting on track.

None of the 20 'Aichi Biodiversity Targets' agreed on by national governments through the United Nations Convention on Biological Diversity (CBD) have been fully met.

31. Consider the following statements regarding the Atal Tunnel:

1. The tunnel is to connect Manali to Lahaul-Spiti valley throughout the year.
2. The Railway Tunnel is built with ultra-modern specifications in the Pir Panjal range of Himalayas.

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

Correct Answer: A

Explanation:

Statement 1 is correct. The recently inaugurated 9.02 Km long Atal tunnel connects Manali to Lahaul-Spiti valley throughout the year. Earlier the valley was cut off for about 6 months each year owing to heavy snowfall. Statement 2 is incorrect. It is horse shoe shaped, single tube double lane highway tunnel (not railway). The Tunnel is built with ultra-modern specifications in the Pir Panjal range of Himalayas at an altitude of 3000 Mtrs (10,000 Feet) from the Mean Sea Level (MSL).

32. Consider the following statements regarding the Insolvency and Bankruptcy Code 2016:

1. The code applies to companies as well as individuals.
2. Insolvency Professionals administer the resolution process and manage the assets of the debtor.
3. The Insolvency and Bankruptcy Board of India is the regulator over Insolvency Professionals, Insolvency Professional Agencies and Information Utilities.

Which of the statements given above is/are correct?

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

Correct Answer: D

Explanation:

Statement 1 is correct. The Insolvency and Bankruptcy Code 2016 applies to companies and individuals. The proceedings of the resolution process are adjudicated by the National Companies Law Tribunal (NCLT), for companies; and the Debt Recovery Tribunal (DRT), for individuals.

Statement 2 is correct. Insolvency Professionals are a specialised cadre of licensed professionals. These professionals administer the resolution process, manage the assets of the debtor, and provide information for creditors to assist them in decision making.

Statement 3 is correct. The Insolvency and Bankruptcy Board of India was established under the Insolvency and Bankruptcy Code, 2016 (Code).

It has regulatory oversight over the Insolvency Professionals, Insolvency Professional Agencies, Insolvency Professional Entities and Information Utilities.

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33. The monetary policy of Reserve Bank of India targets which of the following Inflation Index?

- (a) Consumer Price Index (CPI) Rural
- (b) Consumer Price Index (CPI) Combined
- (c) Wholesale Price Index (WPI)
- (d) Consumer Food Price Index (CFPI)

Correct Answer: B

Explanation:

As per the RBI Act 1934 (amended 2016), the Central Government shall, in consultation with the Bank, determine the inflation target in terms of the Consumer Price Index, once in every five years. Accordingly, the Central Government has notified 4 per cent Consumer Price Index (CPI) inflation as the target for the period from August 5, 2016 to March 31, 2021 with the upper tolerance limit of 6 per cent and the lower tolerance limit of 2 per cent.

As per the Act, the CPI Combined published by the National Statistical Office (NSO), Ministry of Statistics and Programme Implementation is used as inflation targeting index.

34. Consider the following statements regarding the RAISE 2020 Summit:

1. It is being organized by the Ministry of Electronics and Information Technology and NITI Aayog.
2. The Summit aims to chart a course for using Artificial Intelligence for social transformation.

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

Correct Answer: C

Explanation:

Statement 1 is correct. The Ministry of Electronics and Information Technology and NITI Aayog are organizing the RAISE 2020- 'Responsible AI for

Social Empowerment 2020, a Mega Virtual Summit on Artificial Intelligence-AI from 5th to 9th of October.

Statement 2 is correct. RAISE 2020 is a global meeting of minds to exchange ideas and chart a course for using AI for social transformation, inclusion and empowerment in areas like Healthcare, Agriculture, Education and Smart Mobility, among other sectors.

35. Consider the following statements regarding the Supersonic Missile Assisted Release of Torpedo (SMART):

1. It is targeted to achieve Anti-Submarine Warfare (ASW) operations within the Torpedo range.
2. It has been developed by the Defence Research and Development Organization (DRDO).

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

Correct Answer: B

Explanation:

The Supersonic Missile Assisted Release of Torpedo (SMART) has been successfully flight tested recently from Wheeler Island off the coast of Odisha.

Statement 1 is incorrect. SMART is a missile assisted release of lightweight Anti-Submarine Torpedo System for Anti-Submarine Warfare (ASW) operations far beyond Torpedo range. This launch and demonstration is significant in establishing Anti-Submarine warfare capabilities. Statement 2 is correct. It has been developed by DRDO, a number of DRDO laboratories including DRDL, RCI Hyderabad, ADRDE Agra, NSTL Visakhapatnam have developed the technologies required for SMART.

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36. Consider the following statements regarding the Coalition for Epidemic Preparedness Innovations (CEPI):

1. It is part of the COVAX pillar of the Access to COVID-19 Tools (ACT) Accelerator.
2. It has launched a Global network of Laboratories for centralized assessment of COVID-19 Vaccines.

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

Correct Answer: C

Explanation:

Statement 1 is correct. COVAX is the vaccines pillar of the Access to COVID-19 Tools (ACT) Accelerator

The ACT Accelerator is a ground-breaking global collaboration to accelerate the development, production, and equitable access to COVID-19 tests, treatments, and vaccines.

COVAX is co-led by Gavi, the Coalition for Epidemic Preparedness Innovations (CEPI) and WHO. Its aim is to accelerate the development and manufacture of COVID-19 vaccines, and to guarantee fair and equitable access for every country in the world.

Statement 2 is correct. The international non-profit, Coalition for Epidemic Preparedness Innovations (CEPI) has launched a 'Global network of Laboratories for centralized assessment of COVID-19 Vaccines'.

The clinical sample testing laboratories selected for this collaborative vaccine network are: Nexelis (Canada) and Public Health England (PHE; UK), VisMederi Srl (Italy), Viroclinics-DDL (The Netherlands), icddr,b (formerly International Centre for Diarrhoeal Disease Research Bangladesh), and Translational Health Sciences and Technological Institute (THSTI, India).

37. The Nobel Prize in Chemistry 2020 has been awarded for which of the following research?

- (a) The development of lithium-ion batteries
- (b) The phage display of peptides and antibodies
- (c) The design and synthesis of molecular machines
- (d) The development of a method for genome editing

Correct Answer: D

Explanation:

The Nobel Prize in Chemistry 2020 has been awarded jointly to Emmanuelle Charpentier and Jennifer A. Doudna "for the development of a method for genome editing."

Emmanuelle Charpentier and Jennifer A. Doudna have discovered one of gene technology's sharpest tools: the CRISPR/Cas9 genetic scissors. Using these, researchers can change the DNA of animals, plants and microorganisms with extremely high precision.

The Nobel Prize in Chemistry 2019: John B. Goodenough, M. Stanley Whittingham and Akira Yoshino "for the development of lithium-ion batteries".

The Nobel Prize in Chemistry 2018: Frances H. Arnold "for the directed evolution of enzymes", George P. Smith and Sir Gregory P. Winter "for the phage display of peptides and antibodies".

The Nobel Prize in Chemistry 2017: Jacques Dubochet, Joachim Frank and Richard Henderson "for developing cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution".

The Nobel Prize in Chemistry 2016: Jean-Pierre Sauvage, Sir J. Fraser Stoddart and Bernard L. Feringa "for the design and synthesis of molecular machines".

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38. The Graded Response Action Plan (GRAP) relates to which of the following issue?

- (a) Doubling farmers' income by 2022
- (b) Control of air pollution in Delhi and National Capital Region (NCR)
- (c) Increasing solar power capacity to 100GW by 2022
- (d) Eliminating child labour practices

Correct Answer: B

Explanation:

In pursuant to the Supreme Court's order dated December 02, 2016 in the matter of M. C. Mehta vs. Union of India regarding air quality in National Capital Region of Delhi, a Graded Response Action Plan was prepared and notified for implementation under different Air Quality Index (AQI) categories namely, Moderate & Poor, Very Poor, and Severe as per National Air Quality Index.

Ministry of Environment, Forests & Climate Change had notified for implementation of Graded Response Action Plan through Environment Pollution (Prevention & Control) Authority in 2017.

The Environment Pollution (Prevention & Control) Authority (EPCA) has directed Delhi and neighboring States to implement air pollution control measures under "very poor" and "severe" category air quality of the Graded Response Action Plan (GRAP) from October 15, including a ban on the use of diesel generators, except for emergency activities.

39. Which of the following institution has published the Poverty and Shared Prosperity 2020 report?

- (a) World Bank
- (b) United Nations Development Programme
- (c) United Nations Educational, Scientific and Cultural Organization
- (d) Asian Development Bank

Correct Answer: A

Explanation:

The Poverty and Shared Prosperity biennial series published by the World Bank provides a global audience with the latest and most accurate estimates on trends in global poverty and shared prosperity.

Poverty and Shared Prosperity 2020: Reversals of Fortune report presents new estimates of COVID-19's impacts on global poverty and inequality.

Harnessing fresh data from frontline surveys and economic simulations, it shows that pandemic-related job losses and deprivation worldwide are hitting already-poor and vulnerable people hard, while also partly changing the profile of global poverty by creating millions of "new poor."

Global extreme poverty is expected to rise for the first time in 20 years because of the disruption caused by COVID-19. Around 9.1% to 9.4% of the world will be affected by extreme poverty in 2020.

40. Consider the following statements regarding the RUDRAM missile:

1. It is an Anti-Radiation Missile indigenously developed in India.
2. It can detect, classify and engage targets over a wide band of frequencies.

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

Correct Answer: C

Explanation:

Statement 1 is correct. The RUDRAM is first indigenous anti-radiation missile of the country being developed by Defence Research and Development Organisation (DRDO).

It is a new generation Anti-Radiation Missile and was successfully Flight tested recently onto a radiation target located on Wheeler Island off the coast of Odisha.

Statement 2 is correct. It has INS-GPS navigation with Passive Homing Head for the final attack. The RUDRAM hit the radiation target with pinpoint accuracy.

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The Passive Homing Head can detect, classify and engage targets over a wide band of frequencies as programmed.

41. Consider the following statements:

1. Vigyan Jyoti scheme encourages women scientists to pursue research in frontier areas of science and engineering, on problems of societal relevance.
2. KIRAN scheme aims to encourage girls in high school pursue Science, Technology, Engineering, and Mathematics (STEM) in higher education.

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

Correct Answer: D

Explanation:

Scheme objectives have been interchanged in the given statements.
Vigyan Jyoti Scheme is intended to create a level-playing field for the meritorious girls in high school to pursue Science, Technology, Engineering, and Mathematics (STEM) in their higher education. It also offers exposure for girl students from the rural background to help to plan their journey from school to a job of their choice in the field of science.
Knowledge Involvement in Research Advancement through Nurturing (KIRAN): women scientists are being encouraged to pursue research in frontier areas of science and engineering, on problems of societal relevance and to take up S&T-based internship followed by self-employment.

42. Which of the following is/are 'Global Commons'?

1. High Seas
2. Atmosphere
3. Antarctica

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

Global commons have been traditionally defined as those parts of the planet that fall outside national jurisdictions and to which all nations have access.

International law identifies four global commons, namely the High Seas, the Atmosphere, the Antarctica and the Outer Space. These resource domains are guided by the principle of the common heritage of mankind.

The international conventions and treaties to govern global commons include:

- United Nations Convention on the Law of the Sea (UNCLOS) of 1982 and instruments governed by the International Maritime Organization and UNEP's Regional Seas Conventions to govern the high seas;
- Antarctic Treaty System (ATS) ensuring the protection of the Antarctica fauna and flora;
- A multitude of international environmental treaties that administer and protect the atmosphere and deal with the air pollution and atmospheric depletion, like the UNFCCC and the Montreal Protocol on Substances that Deplete the Ozone Layer;
- The Treaty on Principles governing the Activities of States in the Exploration and Use of Outer Space.

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43. Consider the following statements regarding the Food Loss Index (FLI):

1. It examines the food loss along supply activities such as production, handling & storage, and processing.
2. It has been developed by the International Food Policy Research Institute (IFPRI).

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

Correct Answer: A

Explanation:

Sustainable Development Goal 12: Ensure sustainable consumption and production patterns. SDG Target 12.3 seeks to halve global food waste at retail and consumer levels, as well as to reduce food loss during production and supply. In order to measure food waste and losses, two indices have been proposed: Food Waste Index (FWI) and Food Loss Index (FLI).

Statement 1 is correct. The Food Loss Index examines the food loss along supply activities such as production, handling & storage, and processing. It focuses on food losses that occur from production up to (and not including) the retail level. It measures the changes in percentage losses for a basket of 10 main commodities by country in comparison with a base period.

Statement 2 is incorrect. To monitor SDG Target 12.3, Food and Agriculture Organization has created the Food Loss Index (FLI). The focus of the indicator is on percentages of food removed from the supply chain.

Further, the Food Waste Index is currently in development at UN Environment. The FWI will measure tons of wasted food per capita, considering a mixed stream of products from processing through to consumption.

44. What is 'Loya Jirga', that was in news recently?

- (a) A Tibetan ancient immunity booster herbal combination
- (b) A traditional consultative body of Afghanistan
- (c) A cultural exchange pact between Central Asian countries and India
- (d) An ancient Buddhist canonical text in Mongolian tradition

Correct Answer: B

Explanation:

A Loya Jirga, or "grand council" in Pashto, is a mass national gathering that brings together representatives from the various ethnic, religious, and tribal communities in Afghanistan.

Loya Jirga is a centuries-old institution that has been convened at times of national crisis or to settle national issues. Historically, it has been used to approve a new constitution, declare war, choose a new king, or to make sweeping social or political reforms.

It is considered the "highest expression" of the Afghan people, but its decisions are not legally binding and any verdict it hands out must be approved by the Afghan parliament and the President.

45. Which of the following is/are correctly matched?

1. J Satyanarayana Committee – National Digital Health Blueprint
2. Ranbir Singh Committee – Criminal Law Reform
3. Ishaat Hussain Committee – Social stock exchanges

Select the correct answer using the code give below:

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

Correct Answer: D

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Explanation:

Option 1 is correctly matched. The National Digital Health Blueprint was prepared by a Health Ministry panel headed by J. Satyanarayana with an objective to create a framework for the national health stack proposed in 2018 by the NITI Aayog.

Option 2 is correctly matched. Union Home Ministry constituted a high-level committee to introduce reforms in criminal laws under the chairmanship of Ranbir Singh, Vice-Chancellor, National Law University (NLU).

Option 3 is correctly matched. A panel was set up by SEBI in September 2019 under the Chairmanship of Ishaat Hussain to recommend on the norms for setting up Social Stock Exchange in India as declared by Finance Minister in 2019-20 Budget Speech.

46. Which of the following is/are correctly matched?

1. Etikoppaka toys – Andhra Pradesh
2. Kandhamal Haladi – Odisha
3. Channapatna toys – Bihar

Select the correct answer using the code given below:

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

Correct Answer: A

Explanation:

Option 1 is correctly matched. Etikoppaka toys (Etikoppaka Bommalu) are traditional toys made by artisans in Etikoppaka village located on banks of river Varaha in Visakhapatnam district of the Andhra Pradesh. This craft form is protected as a geographical indication (GI).

Option 2 is correctly matched. Kandhamal Haladi, a variety of turmeric indigenous to South Odisha and mostly cultivated in Kandhamal district. It is protected as a geographical indication (GI).

Option 3 is incorrectly matched. Channapatna toys are a particular form of wooden toys (and dolls) that are manufactured in the town of Channapatna in the Ramanagara district of Karnataka. This

traditional craft is protected as a geographical indication (GI).

47. Which of the following is/are related to the Israel-Palestine dispute resolution?

1. Oslo Accords
2. Arab Peace Initiative

Select the correct answer using the code given below:

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

Correct Answer: C

Explanation:

Option 1 is correct. Oslo Accords are series of agreements between Israel and the PLO, starting 1993 Declaration of Principles on Palestinian Self-Rule. The Oslo Accords marked the first time Israel and the Palestine Liberation Organisation (PLO) formally recognised one another.

Option 2 is correct. The Arab Peace Initiative, endorsed by the Arab League's 22 members during the March 2002 Beirut summit, outlined comprehensive steps to ending the Palestinian-Israeli conflict.

Arab leaders collectively offered Israel recognition of its right to exist and a normalisation of diplomatic ties in exchange for its complete withdrawal from Arab lands captured since 1967.



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48. Which of the following country(s) is/are members of the Collective Security Treaty Organization (CSTO)?

1. Iran
2. Russia
3. Pakistan

Select the correct answer using the code given below:

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

Correct Answer: B

Explanation:

The Collective Security Treaty was signed by Armenia, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, and Uzbekistan on May 15, 1992.

Current CSTO members are Armenia, Belarus, Kazakhstan, Kyrgyzstan, the Russian Federation and Tajikistan.

It is a Russia-led military alliance of seven former Soviet states that was created in 2002. The CSTO's purpose is to ensure the collective defence of any member that faces external aggression. It is described by political scientists as the Eurasian counterpart of NATO.

49. Which of the following institution has released the 'Human Cost of Disasters 2000-2019' report?

- (a) United Nations Development Program
- (b) Amnesty International
- (c) UN Office for Disaster Risk Reduction
- (d) International Organization for Migration

Correct Answer: C

Explanation:

UN Office for Disaster Risk Reduction has published "The Human Cost of Disasters 2000-2019" report to mark the International Day for Disaster Risk Reduction on October 13, 2020. In the period 2000 to 2019, there were 7,348 major recorded disaster events claiming 1.23 million lives, affecting 4.2 billion people (many on more than one occasion) resulting in approximately US\$2.97 trillion in global economic losses.

There has also been a rise in geo-physical events including earthquakes and tsunamis which have killed more people than any of the other natural hazards under review in this report.

50. Which of the following institution has recently published the 'World Economic Outlook: A Long and Difficult Ascent'?

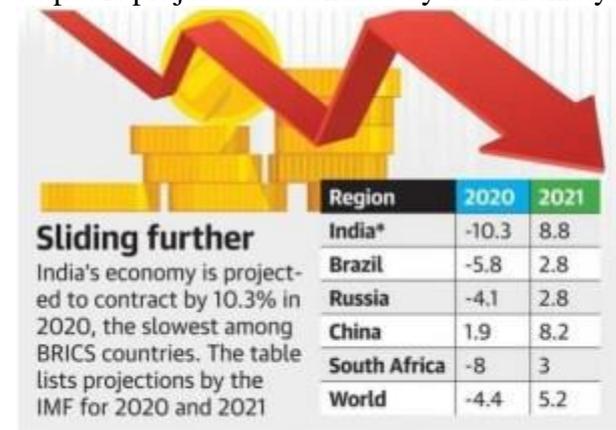
- (a) World Economic Forum
- (b) World Bank
- (c) International Monetary Fund
- (d) Organization for Economic Co-operation and Development

Correct Answer: C

Explanation:

The report 'World Economic Outlook, October 2020: A Long and Difficult Ascent' has been published by the International Monetary Fund (IMF).

As per the report, the Indian economy is expected to contract by 10.3 percent in 2020 and Global output is projected to contract by 4.4 for this year.



*India's figures are for fiscal years. All figures in %

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51. What is the objective of the recently launched 'KAPILA' Kalam Program?

- (a) Intellectual Property literacy and awareness
- (b) Indigenous Animal Husbandry development
- (c) Incentive for private sector participation in Space Exploration
- (d) Defence sector public-private partnership

Correct Answer: A

Explanation:

Union Education Minister recently launched the 'KAPILA' Kalam Program for Intellectual Property Literacy and Awareness campaign on the 89th birth anniversary of former President and Scientist Late Dr. APJ Abdul Kalam.

Under this campaign, students pursuing education in higher educational institutions will get information about the correct system of application process for patenting their invention and they will be aware of their rights. He further said that we need to take a giant leap in the field of patents.

52. Consider the following statements regarding the SVAMITVA Scheme:

1. It is a Centrally Sponsored Scheme.
2. The scheme aims to provide an integrated property validation solution for rural India.

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

Correct Answer: B

Explanation:

Statement 1 is incorrect. SVAMITVA Scheme is a Central Sector scheme. The Ministry of Panchayati Raj (MoPR) is the Nodal Ministry for implementation of the scheme.

In the States, the Revenue Department / Land Records Department will be the Nodal Department and shall carry out the scheme with support of State Panchayati Raj Department. Survey of India shall work as the technology partner for implementation. Statement 2 is correct. The scheme aims to provide an integrated property validation solution for rural India. The demarcation of rural abadi areas would be done using Drone Surveying technology.

The scheme seeks to achieve the following objectives:

–To bring financial stability to the citizens in rural India by enabling them to use their property as a financial asset for taking loans and other financial benefits.

–Creation of accurate land records for rural planning.

–Determination of property tax, which would accrue to the GPs directly in States where it is devolved or else, add to the State exchequer.

–Creation of survey infrastructure and GIS maps that can be leveraged by any department for their use.

–To support in preparation of better-quality Gram Panchayat Development Plan (GPDP) by making use of GIS maps.

–To reduce property related disputes and legal cases

53. Consider the following statements regarding the Electronic Vaccine Intelligence Network (eVIN):

1. It is being implemented under National Health Mission by Ministry of Health and Family Welfare.
2. It aims to provide real-time information on vaccine stocks and flows, and storage temperatures across all cold chain points in the country.

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

Correct Answer: C

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Explanation:

Statement 1 is correct. The Electronic Vaccine Intelligence Network (eVIN) is an innovative technological solution aimed at strengthening immunization supply chain systems across the country. This is being implemented under National Health Mission (NHM) by Ministry of Health and Family Welfare.

Statement 2 is correct. eVIN aims to provide real-time information on vaccine stocks and flows, and storage temperatures across all cold chain points in the country.

The Electronic Vaccine Intelligence Network (eVIN) system is being enhanced to address the needs for distribution and tracking of COVID-19 vaccine, whenever it becomes available.

54. Which of the following treatment options (s) was/were used in Solidarity Trial for COVID-19?

1. Remdesivir
2. Lopinavir
3. Isoniazid

Select the correct answer using the code given below:

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

Correct Answer: A

Explanation:

Solidarity is an international clinical trial to help find an effective treatment for COVID-19, launched by the World Health Organization and partners.

Treatment options used under the trial so far are: Remdesivir, Lopinavir/ritonavir, Interferon beta-1a and Hydroxychloroquine.

The Solidarity Trial published interim results on 15 October 2020. It found that all 4 treatments evaluated (remdesivir, hydroxychloroquine, lopinavir/ritonavir and interferon) had little or no effect on overall mortality, initiation of ventilation

and duration of hospital stay in hospitalized patients.

The Solidarity Trial is considering evaluating other treatments, to continue the search for effective COVID-19 therapeutics.

So far, only corticosteroids have been proven effective against severe and critical COVID-19.

55. Consider the following statements regarding the International Financial Services Centres Authority (IFSCA):

1. IFSCA is a statutory regulatory body.
2. It is empowered to exercise the powers of Reserve Bank of India in respect of the international financial services centres in the country.

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

Correct Answer: C

Explanation:

Statement 1 is correct. International Financial Services Centres Authority (IFSCA) is a statutory unified regulatory body under the Department of Economic Affairs established by an Act of Parliament to develop and regulate the financial products, financial services and financial institutions located / performed in the International Financial Services Centres in India. Statement 2 is correct. The Authority will function as a unified regulator and is empowered to exercise the powers of RBI, SEBI, IRDAI and PFRDA in respect of financial services, financial products and financial institutions performed/located in the international financial services centres in the country.

IFSCA has introduced a framework for “Regulatory Sandbox”. Under this, entities operating in the capital market, banking, and insurance and financial services space shall be granted certain facilities and flexibilities to experiment with innovative FinTech solutions in a

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live environment with a limited set of real customers for a limited time frame.

56. Which of the following organization has published the Future of Jobs Report 2020?

- (a) World Economic Forum
- (b) World Bank
- (c) Organization for Economic Co-operation and Development
- (d) International Labour Organization

Correct Answer: A

Explanation:

The Future of Jobs report by World Economic Forum maps the jobs and skills of the future, tracking the pace of change.

The report's key findings include:

–The pace of technology adoption is expected to remain unabated and may accelerate in some areas.

–Automation, in tandem with the COVID-19 recession, is creating a 'double-disruption' scenario for workers. In addition to the current disruption from the pandemic-induced lockdowns and economic contraction, technological adoption by companies will transform tasks, jobs and skills by 2025.

–Although the number of jobs destroyed will be surpassed by the number of 'jobs of tomorrow' created, in contrast to previous years, job creation is slowing while job destruction accelerates.

–In the absence of proactive efforts, inequality is likely to be exacerbated by the dual impact of technology and the pandemic recession.

57. Which of the following is/are potential benefits of incoming Foreign Direct Investments (FDI) in a country?

- 1. Human resource development
- 2. Transfer of technology
- 3. Increase in exports

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

Foreign Direct Investment (FDI) is the investment of funds by an organisation from one country into another, with the intent of establishing 'lasting interest'.

FPI (Foreign Portfolio Investments) means only equity infusion, and does not imply the establishment of a lasting interest.

FDI allows the transfer of technology—particularly in the form of new varieties of capital inputs—that cannot be achieved through financial investments or trade in goods and services.

Human Capital refers to the knowledge and competence of the workforce. New technological investments lead to new skills gained and enhanced through training and experience boost the education and human capital quotient of the country. Once developed, human capital is mobile and has multiplier effect on the economy.

Many of these products developed by FDI led industries have global markets and can further assist FDI investors in boosting their exports from other countries..

Total FDI inflow grew by 55%, i.e. from US\$ 231.37 billion in 2008-14 to US\$ 358.29 billion in 2014-20.

#FDI equity inflow also increased by 57% from US\$ 160.46 billion during 2008-14 to US\$ 252.42 billion (2014-20).

58. Consider the following statements regarding the Consumer Price Index for Industrial Workers (CPI-IW):

- 1. It is compiled by the Labour Bureau.
- 2. The base year for the CPI-IW has been updated to the year 2016.

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

Correct Answer: C

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Explanation:

Both statements are correct.

The Labour Bureau, an attached office of the M/o Labour & Employment, has been compiling Consumer Price Index for Industrial Workers every month on the basis of the retail prices of selected. The index is compiled for 78 centres and All-India and is released on the last working day of succeeding month.

The Labour and Employment Ministry has recently revised the base year of the Consumer Price Index for Industrial Workers (CPI-IW) from 2001 to 2016.

The number of items directly retained in the index basket has increased to 463 items as against 392 items in the 2001 series. The weight to food and beverage was reduced from 46.2% to 39%, while spending on housing increased from 15.2% to 17%.

59. What is the utility of the e-Dharti Geo Portal?

- (a) Weather based mapping of different climatic zones of the country
- (b) Navic satellite system's online application
- (c) Crop-wise geographic mapping of the country
- (d) Geographic Information System based mapping of government properties

Correct Answer: D

Explanation:

e-Dharti Geo Portal is GIS based mapping of each and every Government property under Land & Development Office (L&DO), whether it is allotted or still lying vacant. Through this portal the Lessee of the property will be able to see the basic details of his/her property along with map showing its location.

The L&DO has devised a property certificate incorporating details and the outline map of the property which is available online on the portal.

60. Consider the following statements regarding the Osiris-Rex spacecraft:

1. It has travelled to a near-Earth asteroid Benu.
2. The mission aims to bring asteroid sample back to earth for study.

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

Correct Answer: C

Explanation:

Both statements are correct.

This well-preserved, ancient asteroid, known as Benu, is currently more than 200 million miles (321 million kilometers) from Earth.

The Origins Spectral Interpretation Resource Identification Security – Regolith Explorer (OSIRIS-Rex) spacecraft travelled to a near-Earth asteroid, called Benu and aims bring at least a 2.1-ounce sample back to Earth. It recently performed a Touch-And-Go (TAG) sequence to collect the required sample from the asteroid.

If it turns out that the spacecraft did not collect enough sample at Nightingale site, it will attempt another TAG maneuver on Jan. 12, 2021. If that occurs, it will touch down at the backup site called "Osprey," which is another relatively boulder-free area inside a crater near Benu's equator.

The spacecraft is not scheduled to depart Benu for Earth until April 2021. A landing on Earth for any rock cache in this timeline would be late 2023.

61. The Poverty and Equity Briefs (PEBs) are released by which of the following organisation?

- (a) World Bank Group
- (b) United Nations Development Programme
- (c) UN Children's Fund (UNICEF)
- (d) UN Human Rights Commission

Correct Answer: A

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Explanation:

The Poverty and Equity Briefs (PEBs) of World Bank Group highlight poverty, shared prosperity and inequality trends for over 100 developing countries. The briefs are released twice a year for the Spring and Annual Meetings of the World Bank Group and International Monetary Fund. The India PEB October 2020 notes: Between FY2011/12 and 2017, India's poverty rate is estimated to have declined from 22.5 percent to values ranging from 8.1 to 11.3 percent at the international poverty line (2011 PPP \$1.90 per person per day). However, as a result of the COVID-19 outbreak, poverty rates in 2020 are estimated to revert to levels observed in 2016. # 'Global Estimate of Children in Monetary Poverty: An Update' that builds on previous collaboration between the World Bank Group and UNICEF to estimate the global extent of child poverty. It estimates that one in six children or 356 million globally were living in extreme poverty before the COVID-19 pandemic began, and this is set to worsen significantly.

62. Which of the following country(s) is/are currently named as 'High-Risk Jurisdictions subject to a Call for Action' by the Financial Action Task Force (FATF)?

1. Iran
2. North Korea
3. Pakistan

Select the correct answer using the code given below:

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

Correct Answer: A

Explanation:

The FATF listed High-risk jurisdictions have significant strategic deficiencies in their regimes to counter money laundering, terrorist financing, and financing of proliferation. This list is often externally referred to as the "black list".

Currently only two countries are under the black list: Iran and Democratic People's Republic of Korea.

Pakistan is listed as Jurisdictions under increased monitoring, that are actively working with the FATF to address strategic deficiencies in their regimes to counter money laundering, terrorist financing, and proliferation financing. This list is often externally referred to as the 'grey list'.

63. As of today [1-11-2020], which of the following statements is/are correct?

1. India is a non-permanent member of the UNSC.
2. India has assumed the role of chair of the International Labour Organisation's governing body.
3. India is the chair of World Health Organization's Executive Board.

Select the correct answer using the code given below:

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

Correct Answer: B

Explanation:

Option 1 is incorrect. India's two-year term as the non-permanent member of the UNSC would begin from January 1, 2021.

Option 2 is correct. India assumed the role of chair of the International Labour Organisation's governing body after 35 years, for the period of October 2020 till June 2021.

Option 3 is correct. Dr Harsh Vardhan, Minister of Health and Family Welfare, India is currently the Chair of World Health Organization's Executive Board and would chair the 148th session of the Executive Board in January 2021.

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64. Which of the following Indian naval project(s) is/are correctly matched?

1. Project 28 – Kamorta Class Anti-Submarine Corvettes
2. Project 75 – Kalvari Class of submarines

Select the correct answer using the code given below:

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

Correct Answer: C

Explanation:

During the developmental stage of a ship or a submarine, specific projects are generally assigned a numerical character as a unique identifier to the project.

In a series production of the warship construction project, all ships/submarines of the series have common design characteristics and capabilities. The term 'class' in the Kolkata Class refers to a series of warships constructed under Project 15A which includes Indian naval ships INS Kolkata, INS Kochi and INS Chennai. Similarly, all six submarines constructed under Project 75 are referred to as Kalvari Class of submarines.

Project 15 Destroyers – Delhi Class (Delhi, Mysore, and Mumbai)

Project 16 Frigates – Godavari Class (Godavari, Ganga and Gomti)

Project 16A Frigates – Brahmaputra Class (Brahmaputra, Betwa and Beas)

Project 17 Stealth Frigates – Shivalik Class (Shivalik, Sahyadri and Satpura)

Project 28 Anti-Submarine Corvettes – Kamorta Class (Kamorta, Kadmatt, Kiltan and Kavaratti)

The Project 75I-class submarine is a follow-on of the Project 75 Kalvari-class submarine for the Indian Navy.

65. Consider the following statements regarding the India–Australia Circular Economy Hackathon (I-ACE):

1. It is being organized by Atal Innovation Mission in collaboration with Australia's

Commonwealth Scientific and Industrial Research Organization.

2. It will focus on identification and development of innovative technology solutions by students, startups and MSMEs of both nations.

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

Correct Answer: C

Explanation:

Both statements are correct.

AIM (Atal Innovation Mission), in association with CSIRO, is organizing a two-day hackathon on circular economy, 'India–Australia Circular Economy Hackathon (I-ACE)' in collaboration with Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO).

I-ACE will focus on identification and development of innovative technology solutions by bright-minded students, startups and MSMEs of both nations. Shortlisted students and startups/MSMEs will be called for the hackathon, where two winners (one student and one startup/MSME) per theme from each country will be awarded.

66. Consider the following statements about the Earth's Revolution around the Sun:

1. The seasons arise from the Earth's revolution around the Sun and the tilt of the Earth's axis.
2. At the winter solstice, the northern hemisphere is tilted toward the Sun.
3. On the day of equinox, day and night are of equal length everywhere on the globe.

Select the correct answer using the code given below:

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

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(d) 1, 2 and 3

Correct Answer: B

Explanation:

At the summer solstice (June) the northern hemisphere is tilted towards the sun.

At the winter solstice December the southern hemisphere is tilted toward the sun.

At the equinoxes day and night are of equal length everywhere on the globe.

the seasons arise from the Earth's revolution around the sun and the tilt of the earth's axis

67. The presence of organic matter or humus in soil in optimum amount improves which of the following properties of soil?

1. Water holding capacity of the soil
2. Amount of nitrogen and other nutrients in the soil
3. Porosity of soil

Select the correct answer using the code given below:

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

Correct Answer: D

Explanation:

Organic matter is found in the form of humus. Humus is formed partly by decomposition of dead parts of organisms and partly synthesized organic molecules.

Humus is one of the main factors which determines the nature of the soil.

Functions of humus:

Helps in increasing water holding capacity of soil.

Makes the soil porous and causes formation of air spaces in the clay soil.

It provides nitrogen and other nutrients for plant growth.

It absorbs heat and warms up the soil.

the organic acids formed by complete decomposition of humus act as solvent for soil materials.

Also provides an abundant food source for microscopic soil organisms.

68. With reference to the rift valley, consider the following statements:

1. A rift valley is formed after the formation of Fold Mountain.
2. A rift valley is formed on a divergent plate boundary.
3. The most extensive rift valley is located along the crest of the mid ocean ridge system.

Select the correct answer using the code given below:

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

Correct Answer: C

Explanation:

Statement one is incorrect: rift valleys are associated with block mountains and faulting. Due to the earth movements, movements at plate boundaries place stress and tension on the crustal rocks. These tensional or compressional forces result in parts of the crusts to be fractured. Hence, a fault is a fracture/cracked in the rocks which are being displaced.

Features formed as a result of faulting:

- Block mountains
- Rift valleys

Statement 2 is correct: faulting due to divergence creates extensive rift system. Rift Valley deepens due to the divergence and makes way for Ocean waters. If the rift valleys are formed deeper within the continents rain water accumulate forming rift lakes. Rift lakes form some of the largest freshwater lakes on earth.

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Statement 3 is correct: many of Earth's deepest rift valleys are found underwater dividing long mountain range is called mid-oceanic ridges. the mid oceanic ridge system is the most extensive chain of mountains on earth but more than 90% of these mountain range lies in the deep ocean.

(a) 1 and 3 only

(b) 1 and 2 only

(c) 2 and 3 only

(d) 1, 2 and 3

69. Consider the following major discontinuities of Earth:

- | | |
|-----------------|------------------------|
| 1. Conrad: | Outer and Inner Crust |
| 2. Mohorovicic: | Crust and mantle |
| 3. Gutenberg: | Outer and Inner Mantle |
| 4. Lehmann: | Mantle and Core |

Which of the pairs given above is/are correctly matched?

(a) 1 and 2 only

(b) 1, 2 and 3 only

(c) 2 and 3 only

(d) 1, 2, 3 and 4

Correct Answer: A

Explanation:

Earth's major discontinuities:
 Conrad: outer and inner crust
 Mohorovicic: crust and mantle
 Repetti: outer and inner mantle
 Wheichart- Gutenberg: mantle and core
 Lehmann: outer and inner core

70. Which of the following statements are correct about Shadow zone?

1. P and S waves both forms shadow zones.
2. Shadow zone of P waves is larger than that of S wave.
3. Shadow zones forms due to varying refractive indexes of different layers of earth.

(a) 1, 2 and 3 only

(b) 3 and 4 only

(c) 2 and 4 only

(d) 1, 2, 3 and 4

Correct Answer: A

Explanation:

There exist some specific areas where the seismic waves are not reported. Such a zone is called the Shadow zone.

The shadow zone of S waves is much larger than that of P waves. Beyond 105 degree from epicenter no S waves are recorded. The shadow zone of P waves appears as a band around the earth between 105 degree and 145 degree away from the epicenter.

71. Consider the following statements regarding the Northern Plains:

1. River tends to disappear in Bhabar region due to deposition of heavy rocks and boulders.
2. Swampy and marshy conditions are peculiarity of Tarai region due to non-demarcated channel of rivers.
3. Riverine islands and sand bars can be found in Brahmaputra plains.
4. Punjab serves as a water divide between Indus and Ganges river system.

Select the correct statements using the codes given below:

(a) 1, 2 and 3 only

(b) 3 and 4 only

(c) 2 and 4 only

(d) 1, 2, 3 and 4

Correct Answer: A

Explanation:

29 Select the correct answer using the code given below:

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Statement 4 is wrong: the states of Haryana and Delhi form a water divide between the Indus and the Ganga River.

72. Consider the following statements:

1. Temperature $> 22^{\circ}\text{C}$
2. Rainfall $> 200\text{ cm}$
3. Rosewood and Mahogany can be found in these forests.

Which among the following regions has the forest with above characteristic?

- (a) Western Ghats
- (b) Andaman and Nicobar
- (c) North Eastern Hills
- (d) All the above

Correct Answer: D

Explanation:

These forests are found in the Western slope of the Western ghats, hills of the North Eastern region and the Andaman and Nicobar Islands.

73. Which among the following statement is incorrectly stated?

- (a) Sirocco is a hot, dry dusty wind coming from Sahara Desert
- (b) Mistral is a cold wind from the north rushing down towards Europe
- (c) Berg Wind is hot dry wind is south eastern Africa
- (d) Harmattan is cold winds blowing in winters in Brazil

Correct Answer: D

Explanation:

Harmattan is a dry and restaurant that glows in the West Africa. Locally called 'the doctor' because their relative humidity rarely goes above 30% and

provide a welcome relief from the damp air by increasing the rate of evaporation with resultant cooling effect.

74. Consider the following statements:

1. Ganga comes into existence when Alaknanda confluences with Bhagirathi at Devprayag.
2. Gomati and Ghaghara are the right bank tributaries of Ganga.

Select the correct statement(s) using the codes given below:

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

Correct Answer: A

Explanation:

Statement 2 is wrong: Gomti and Ghagra are left Bank tributaries of Ganga.

75. Which among the following methods of increasing human capital, given the population of a country is fixed?

1. Promotion of Digital Literacy
2. Investment for better health security of citizens
3. Regulating work conditions

Select the correct answer using the codes given below:

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

Correct Answer: D

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Explanation:

All of the above are correct: self-explanatory

76. What is the correct order of Mountains from East to West?

- (a) Garo Hills, Jaintia Hills, Naga Hills, Khasi Hills
- (b) Garo Hills, Khasi Hills, Jaintia Hills, Naga Hills
- (c) Naga Hills, Jaintia Hills, Khasi Hills, Garo Hills
- (d) Jaintia Hills, Garo Hills, Naga Hills, Khasi Hills

Correct Answer: C

Explanation:

Refer NCERT and physical map of India.

77. Which of the following pair(s) is/are correctly matched?

- 1. Himachal & Uttarakhand Himalayas: Duar formation
- 2. The Peninsular Plateau - Quartzite dykes
- 3. The Indian Desert – Mushroom rocks

Select the correct answer by using the codes given below:

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

Correct Answer: B

Explanation:

Himachal and Uttarakhand Himalayas have Duns and Shivalik formation.

Duars are the alluvial flood plains in North Eastern India that lie South to the outer foothills of the Himalayas and north of the Brahmaputra river basin.

78. Which of the following condition would prevail in India in absence of the Himalayas?

- 1. North India would be a cold desert in winters.
- 2. There would be no monsoon.
- 3. There would be no existence of rivers like Ganga and Indus.

Select the correct answer using the code given below:

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

Correct Answer: A

Explanation:

Statement 2 is wrong: monsoon and monsoon rainfall are two different things. monsoon is traditionally defined as a seasonal reversing wind accompanied by corresponding changes in precipitation. but it is now used to describe seasonal changes in atmospheric circulation and precipitation associated with the asymmetric heating of land and sea. So, monsoon would still be there but monsoon rainfall on the part of Northern India may not be there because of absence of Himalayas. However, monsoon rainfall would still be there at the Western ghats region. Statement 3 is wrong: Indus Ganga and Brahmaputra are antecedent rivers. the rivers that existed before the upheaval of the Himalayas and cut their courses Southward by making gorges in the mountains are known as the antecedent rivers. The Indus Satluj Ganga Sarju Arun Teesta and Brahmaputra are some of the important antecedent rivers originating from beyond the Greater Himalayas. These rivers had their course in the now Tibetan region.

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79. Consider the following statements:

1. The sea surface temperature in the Eastern Pacific Ocean is colder during La Nina, when compared to El Nino.
2. The tropical cyclones that influence South Asia is not part of the regional monsoon wind system.

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

Correct Answer: A

Explanation:

Statement one is correct: during a la Nina period, the sea surface temperatures across the eastern and Central Pacific Ocean tend to be lower than the normal temperatures between 3-5 degrees celsius.

Statement 2 is incorrect: South Asia mostly refers to the Indian subcontinent which has a peculiar monsoonal pattern of wind system. The tropical cyclones that occur in this region are mostly due to the monsoon winds in the Indian subcontinent. Thus, the tropical cyclones that influence South Asia is a part of the regional monsoon wind system.

80. Consider the following statements regarding river Chenab:

1. Source of this river is Bara Lacha pass.
2. It is the largest tributary of river Indus.
3. The waters of Chenab are allocated to Pakistan under the terms of the Indus Water Treaty.
4. River Chandra is an upper tributary of river Chenab.

Which of the above statements are true?

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

Correct Answer: D

Explanation:

All the statements are correct.

Chenab is the largest tributary of the Indus.

It is formed by two streams, the Chandra and the Bhaga, which join in Himachal Pradesh. Hence, it is also known as Chandrabhaga.

The river flows for 1180 km before entering into Pakistan.

81. Which of the following species are found in Tropical Thorn forests?

1. Bamboo
2. Babool
3. Khejri
4. Teak
5. Khair

Select the correct answer using the codes below:

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

Correct Answer: B

Explanation:

Teak and bamboo belong to tropical deciduous forest.

Rest belong to the tropical thorn forest

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82. Consider the following statements:

1. Fringing reef is a coral reef lying close to the shore.
2. Atolls are similar to barrier reefs in shape.
3. Barrier reef is separated from the coast by a much wider and deeper channel or lagoon.

Select the correct statement(s) using the codes given below:

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

Correct Answer: B

Explanation:

Statement 1 is correct: fringing reef is a coral reef that lies close to the shore.

Statement 3 is correct: barrier reefs are extensive linear reef complexes that parallel a shore, and separated from it by lagoon.

Statement 2 is incorrect: Atoll is a ring shaped reef, Island or chain of islands formed of coral. They are different in shape from barrier reef.

83. Consider the following statements:

Assertion (A): Alluvial fans are formed at foothills, whereas deltas are formed near mouth of rivers where they meet seas.

Reason (R): Alluvial fans are generally composed of coarse sediments, whereas deltas are generally formed by fine deposits.

In the context of the above, which of these is correct?

- (a) A and R both are correct, and R is the correct explanation of A.

(b) A and R both are correct, but R is not a correct explanation of A

(c) A is correct, but R is incorrect.

(d) A is incorrect, but R is correct.

Correct Answer: B

Explanation:

Both deltas and alluvial fans are types of depositional landforms formed by flowing rivers. alluvial fans are formed at foothills where streams flowing from higher level break into foot slope plains of low gradient.

Deltas are formed near mouth of stream where it meets sea or stagnant water bodies.

The two landforms also different terms of characteristics of their deposits: alluvial fans generally composed of coarse sediments which are not distinguishably stratified, whereas, deltas are generally formed by fine deposits.

84. El Nino Southern Oscillation (ENSO) is a complex climatic and weather phenomenon observed mainly due to:

1. Oscillation of temperatures in the equatorial Pacific
2. Change in the behaviour of Coriolis Force with changing longitude
3. Increasing depth of ocean water as one moves to temperate circles

Select the correct answer using the codes below:

(a) 2 and 3 only

(b) 1 only

(c) 2 only

(d) 1 and 3 only

Correct Answer: B

Explanation:

Statements 2 and 3 have no relation to the ENSO phenomenon. Coriolis force does not vary with

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longitude as such, and depth of Ocean water does not control the ENSO.

El Niño is a natural phenomenon that involves fluctuating Ocean temperatures in the equatorial Pacific.

The pattern generally fluctuates between two States: warmer than normal Central and Eastern equatorial Pacific SSTs (El Nino); and cooler than normal Central and Eastern equatorial Pacific SSTs (La Nina).

it is among the most significant factors that metrologist scan to forecast the performance of the Indian monsoon

85. Which of these forms a water divide between the Arabian Sea and Bay of Bengal drainage systems?

1. Delhi ridge
2. The Deccan Plateau
3. The Aravallis
4. The Sahyadris

Select the correct answer using the codes given below:

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

Correct Answer: C

Explanation:

Indian drainage system may be divided on various basis . On the basis of discharge of water (orientation to the sea) it may be grouped into:

The Arabian sea drainage

The bay of Bengal drainage

They are separated from each other through the Delhi ridge, the Aravalli hills and the Sahyadris.

86. Which of the following ports are natural harbours?

1. Mumbai Port
2. Marmagao Port
3. Kochi Port

4. Chennai Port

Select the correct answer using the code given below:

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

Correct Answer: B

Explanation:

Chennai port is one of the oldest ports on the eastern coast. It is an artificial harbour built in 1859. It is not much suitable for large ships because of the shallow waters near the coast. Mumbai is a natural harbour and the biggest port of the country.

Marmagao port, situated at the entrance of the Zuari history is a natural harbour in Goa.

Cochin port, situated at the head of vembanad kayal, popularly known as the Queen of the Arabian sea, is also a natural harbor.

87. Which of the following statements is/are correct regarding the composition of atmosphere?

1. Oxygen is present only in the troposphere.
2. Carbon dioxide is the most abundant gas after Nitrogen and Oxygen.
3. Higher composition of dust particles is found in subtropical regions when compared to tropical regions.

Select the correct answer using the code given below:

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

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Correct Answer: D

Explanation:

Statement one is incorrect: oxygen is present in small amounts till about 120 kilometre height of the atmosphere (troposphere's average height is up to 13 kilometre)

Statement 2 is incorrect: composition of atmosphere is as follows:

Nitrogen -78.08

Oxygen- 20.95

Argon- 0.93

Carbon dioxide- 0.036

Neon-0.002

Statement 3 is correct: the higher concentration of dust particles is found in subtropical and temperate region due to dry winds in comparison to equatorial and polar region which have humidity in winds.

88. Consider the following statements with regard to Tundra type of climate:

1. It is found north of the Arctic circle in the northern hemisphere.
2. Rainfall is cyclonic and not convectional.
3. Mosses and lichens are the natural vegetation of this region.

Which of the statements given above is/are correct?

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

Correct Answer: D

Explanation:

Statement 1 is correct: tundra climate is found mainly north of the Arctic circle in the Northern hemisphere. It has long severe winters and cool and short summer.

Statement 2 is correct: no convectional rainfall occurs in this region because of low rate of

evaporation and lack of moisture in the air.

Cyclonic rainfall takes place. Most of the rainfall takes place in summer days. In the coastal areas, where cyclones are strongly felt, most of the rain falls in winter.

Statement 3 is correct: due to extremely harsh climatic conditions, hardly any vegetation can survive in this region. There are no trees in tundra because of very short growing season and very low temperature whole year round. Mosses lichens and sedges grow here. In coastal lowlands, some hardy grasses grow.

89. Consider the following pairs:

Date:	Seasons
1. 21st June:	Summer in northern hemisphere
2. 23rd September:	Autumn in southern hemisphere
3. 21st March:	Spring in southern hemisphere
4. 22nd December:	Winter in northern hemisphere

Which of the pairs given above is/are correctly matched?

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

Correct Answer: C

Explanation:

21st June: summer in Northern hemisphere

23rd September: autumn in Northern hemisphere

21st march: Spring in Northern hemisphere

22nd December: winter in Northern hemisphere

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90. Which among the following regions functions as the most effective "carbon sink" and also known as the lungs of the Earth?

- (a) Savanna
- (b) Sahara region in Africa
- (c) Tropical rainforests
- (d) Antarctica

Correct Answer: C

Explanation:

Tropical rainforests are often called the 'lungs of the planet' because they generally draw in Carbon Dioxide and breathe out oxygen.

The Amazon in S.America is the largest, most diverse tropical rainforest on Earth, covering an area of five and a half million sq.km and thus the largest forest lung of the Earth.

91. With reference to International Date Line (IDL), consider the following statements:

1. It is diametrically opposite to the Greenwich Prime Meridian.
2. It passes through the Bering Strait.
3. Time difference between Indian Standard Time and that at IDL is 5.5 hours.

Which of the statements given above is/are correct?

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

Correct Answer: A

Explanation:

Statement 3 is wrong: time difference between Indian standard time is 5.5 hours ahead of Greenwich prime meridian.

92. Consider the following pairs:

Stages of River: landforms	Associated
1. Youth stage:	Waterfall
2. Maturity stage: lakes	Ox-bow
3. Old stage:	Delta

Which of the pairs given above is/are correct?

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

Correct Answer: B

Explanation:

The characteristics of each of the stages:

Youth stage:

- Few streams that with poor integration flowing through original slopes.
- Shallow v shaped Valleys, deep gradients.
- Stream divides are broad with marshes,swamps etc.
- Waterfalls and rapids exist where hard rocks are there.

Mature stage:

- Plenty streams with good integration; mild gradients.
- Deep v shaped Valley
- Broader meandering floodplains
- Water divides turn sharper
- Waterfalls and rapids disappear

Old stage:

- Smaller tributaries flowing over gentle gradients.
- Divides are broad and flat with lakes.
- Streams meander freely forming natural levees, oxbow lakes.

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- Most of the landscape is either at or above sea level

(d) Neither 1 nor 2

Correct Answer: B

93. Consider the following statements regarding "Dendritic Pattern" of drainage:

1. The drainage pattern resembling the branches of a tree is known as dendritic.
2. The rivers originating from the Amarkantak range present a good example of it.

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

Correct Answer: A

Explanation:

Statement 1 is correct: the drainage pattern resembling the branches of a tree is known as dendritic, the examples of which are the rivers of Northern plain.

Statement 2 is incorrect: the rivers originating from the Amarkantak range present a good example of radial pattern.

94. Which of the following types of industries are located close to markets?

1. Industries using weight-losing raw materials.
2. Industries based on perishable raw materials.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2

Explanation:

Statement 1 is incorrect: industries using weight losing raw materials are located in the regions where raw materials are located and not where markets are located.

Statement 2 is correct: industries based on perishable raw materials are located close to raw material sources.

95. With reference to the Quaternary activities, which of the following statements is/are NOT correct?

1. Unlike the tertiary activities, quaternary activities cannot be outsourced.
2. Quaternary activities are tied to resources and are not affected by the environment or localized market.

Select the correct answer using the code given below:

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

Correct Answer: C

Explanation:

Both statements are incorrect with reference to quaternary activities:

Like some of the tertiary functions, quaternary activities can also be outsourced. Because they are not tied to resources, affected by the environment or necessarily localised by market.

96. With reference to land use categories in India, consider the following statements:

1. While Culturable waste-land can be brought under cultivation, barren and

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wastelands cannot be brought under cultivation with the available technology.

2. While Culturable waste-land includes settlements and industrial areas, barren and wastelands include desert lands and ravines.

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

Correct Answer: A

Explanation:

Barren and wastelands: the land which may be classified as a wasteland such as Barren hilly terrain, desert lands, ravines, etc. normally cannot be brought under cultivation with the available technology.

Culturable waste land: any land which is left fallow or uncultivated for more than five years is included in this category. It can be brought under cultivation after improving it through reclamation practices.

Statement 2 is incorrect: land put to non agricultural use includes land under settlements (rural and urban), infrastructure (roads, canals, etc), industries, shops, etc.

97. Travelling from Manali, Rohtang pass is a popular tourist destination. Rohtang pass connects the:

- (a) Kullu Valley with the Lahaul and Spiti Valleys
- (b) Changla Pass with Kullu valley
- (c) Diphu Pass with Karakoram pass
- (d) Anantnag Valley to Parampeta valley

Correct Answer: A

Explanation:

Rohtang is a high mountain pass on the eastern Pir Panjal range of the Himalayas around 51 kilometers from Manali. It connects the Kullu Valley with the Lahaul and Spiti Valley is of Himachal Pradesh.

The pass lies on the watershed between the Chenab and Beas basins. On the southern side of the pass, the Beas river emerges from underground and flows southward.

98. Consider the following pairs:

Mountain Pass:	State/UT
1. Shipki La:	Himachal Pradesh
2. Niti:	Sikkim
3. Thang La:	Uttarakhand
4. Nathu La:	Ladakh

Which of the pairs given above are correctly matched?

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

Correct Answer: D

Explanation:

Shipki La Pass: Himachal

Niti pass: Uttarakhand

Thang La: Uttarakhand

Nathu La: Sikkim

99. Intensive subsistence agriculture is characterized by which of the following features?

- 1. Large land holdings
- 2. Limited use of machinery
- 3. High labour productivity

Select the correct answer using the code given below:

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

- Mean of years of schooling for adults aged 25 years.
- Expected years of schooling for children of school entering age.
- GNI per capita

Correct Answer: C

Explanation:

Intensive subsistence agriculture:
land Holdings are very small due to the high density of population. farmers work with the help of family labour leading to intensive use of land. Use of machinery is limited and most of the agricultural operations are done by manual labour. Farmyard manure is used to maintain the fertility of the soil. In this type of agriculture the yield per unit area is high but per labour productivity is low.

100. Which of the following components are used in calculating Human Development Index (HDI) by UNDP?

1. Life expectancy at birth
2. Mean years of schooling
3. Expected years of schooling
4. Gross Domestic Product per capita

Select the correct answer using the code given below:

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

Correct Answer: C

Explanation:

The Human development index (HDI) by UNDP uses the following components:

- Life expectancy at birth