

IAS Edge

Comprehensive Prelims Test 02: Solution

Q1. D : TPP members US, Japan, Malaysia, Vietnam, Singapore, Brunei, Australia, New Zealand, Canada, Mexico, Chile and Peru. It is signed by 12 countries in February 2016, covers 40% of the world's economy. Still all 12 nations need to ratify it.

Q2. D: AIIB aims to support building infrastructure in Asia Pacific region and its headquarter is in Beijing.

Q3. A: PMAY has two components rural and urban and its target group consists of people belonging to Low Income Group (LIG) and Economically Weaker Sections (EWS) which includes women, SC's and ST's.

Q4. B Bitcoin is a new currency that was created in 2009 by an unknown person using the alias Santoshi Nakamoto. Transactions are made with no middle men - meaning, no banks!

There are almost no transaction fees and no need to give your real name.

More merchants are beginning to accept them: You can buy webhosting services, pizza or even manicures.

Q5. C: Demonetization might lead to expansionary monetary policy where interest rate will decrease.

Q6. D

Q7. C

Q8. C: Algal blooms may occur in freshwater as well as marine environments. Freshwater harmful algal blooms have the ability to produce toxins that are dangerous to other organisms such as humans, dogs, and livestock.

Q9. D: Biomethanation is a process by which organic material is microbiologically converted under anaerobic conditions to biogas.

Q10. C: Climates in the Southern Hemisphere tends to be milder than those in the Northern Hemisphere. Southern Hemisphere has significantly more ocean and less land. The water heats up and cools down more slowly than land. The annual range of temperature is higher in Atlantic Ocean than in Pacific Ocean.

Q11. B: Off shore trade winds which blows in north easterly direction in Northern hemisphere and south easterly in southern hemisphere. The name is wind is based on the origin and direction of flow.

Q12. C: In cases, deciduous trees grow in areas that experience cold, harsh winters. Trees drop their leaves to shield themselves during these winter months, because the dry cold winter winds will cause the trees to lose their moisture and the leaves have a large surface area. By shedding their leaves, the trees can preserve the moisture in their branches and trunk, instead of drying out and dying. Also, a tree without leaves is in a state of dormancy and needs less energy to remain alive.

Q13. A: The Charter Act, 1813 (not 1833) abolished East India Company monopoly of Indian trade.

Q14. D: Raja Ram Mohan Roy's campaign against Sati led to the enactment of Bengal Regulation Act of 1829 to ban Sati by Governor- General William Bentick. Bankim Chandra Chattopadhyay and Gattunath Bose were the first graduates of the Calcutta University on Jan 30, 1858. JED Bethune founded the Bethune School in Calcutta in 1849. Ishwar Chandra Vidyasagar was also associated with this.

Q15. C: Wood's Despatch of 1854 are considered as the Magna Carta of English education in India. It recommended English as the medium of instructions for higher studies and vernaculars at school level.

Q16. D: Ordinance promulgated under Article 123 shall have the same force and effect as an Act of Parliament. In Cooper case (1970) Supreme Court held that his satisfaction can questioned on the ground of malafide.

Q17. B: Religious freedom rights are available to citizens as well as foreigners except enemy aliens.

Q18. C: NHRC is the National Human Rights Commission of India, responsible for the protection and promotion of human rights, defined by the Act as "rights relating to life, liberty, equality and dignity of the individual guaranteed by the Constitution or embodied in the International Covenants"

Q19. C: A pressure cooker works on a simple principle: Steam pressure. A sealed pot, with a lot of steam inside, builds up high pressure, which helps food cook faster.

Q20. B: If earth gravitational force removed hypothetically than moon will start moving tangentially to the present orbit.

Q21. A: Antioxidants protect the body from damage caused by harmful molecules called free radicals.

Q22. C: Smart Grid include: More efficient transmission of electricity

- Quicker restoration of electricity after power disturbances
- Reduced operations and management costs for utilities, and ultimately lower power costs for consumers
- Reduced peak demand, which will also help lower electricity rates
- Increased integration of large-scale renewable energy systems
- Better integration of customer-owner power generation systems, including renewable energy systems
- Improved security

Q23. B: Fortification is a manual process, however Biofortification has inbuilt nutrition through selective and genetic breeding. It has low glycemic index which is helpful for diabetic patients as it makes one feel satiated for longer.

Q24. A: Two Southeast Asian nations in BIMSTEC are Myanmar and Thailand.

Q25. C: PSLC is an innovation to help banks to meet their priority sector lending targets.

Q26. B: Liquidity of narrow money is highest as it mainly consists of currency with public and demand deposits with banks.

Q27. C: Money supply remaining same with higher demand for money will lead to hike in interest rate.

Q28. A: Stars would not appear to twinkle if we viewed them from outer space (or from a planet/moon that didn't have an atmosphere)

Q29. D: Mediterranean vegetation, any scrubby, dense vegetation composed of broad-leaved evergreen shrubs, bushes, and small trees usually less than 2.5 m (about 8 feet) tall and growing in regions lying between 30° and 40° north and south latitudes. These regions have a climate similar to that of the Mediterranean area, which is characterized by hot, dry summers and mild, wet winters.

Q30. B: Ocean currents are not slow most of the time and can be subsurface current also. So, statement '1' is wrong. But '2', '3' and '4' statements are correct.

Q31. C: Charles Wilkins was a member of Asiatic Society of Bengal founded by William Jones. He translated Bhagavad Gita into English in 1794.

Q32. B: Non Cooperation Movement and Khilafat Movement were launched in 1920. The two movements emerged from separate issues, but they adopted a common programme of action that of nonviolent and non-cooperation. There was increasing Hindu-Muslim unity against the British.

Q33. B: J L Nehru was the President of the Lahore session of the Indian Congress in 1929.

Q34. C: Union Territories are administered by the President through an administrator, who is appointed by him with a suitable designation. This designation is called either Lieutenant Governor or Chief Commissioner or Administrator

Q35. D: UNDHHR include following rights:

- All human beings are born free and equal in dignity and rights.
- Everyone is entitled to all the rights and freedoms
- Everyone has the right to life, liberty and security of person.
- No one shall be held in slavery or servitude; slavery and the slave trade shall be prohibited in all their forms.
- No one shall be held in slavery or servitude; slavery and the slave trade shall be prohibited in all their forms.
- Everyone has the right to recognition everywhere as a person before law.
- All are equal before the law and are entitled without any discrimination to equal protection of the law.

- No one shall be subjected to arbitrary arrest, detention or exile.

Q36. B: 1. Judicial Review Power is used by both the Supreme Court and High Courts. 2. Judicial Review is not automatic i.e. Supreme Court does not use this power on its own. It can use it only when any law or rule is specifically challenged before it or when during the course of hearing a case the validity of any law is challenged before it

Q37. C

Q38. B

Q39. B: Cloud Seeding application of scientific technology that can enhance a cloud's ability to produce precipitation.

Q40. A : Phytoremediation is the direct use of living green plants for in situ, or in place, removal, degradation, or containment of contaminants in soils, sludges, sediments, surface water and groundwater. It is A low cost, solar energy driven cleanup technique.

Q41. C: Green house effect is naturally occurring process which has just exponentially increased due to rapid increase in population and urbanization.

Q42. D

Q43. D: Kigali Amendment which amends the 1987 Montreal Protocol aims to phase out Hydrofluorocarbons (HFCs), a family of potent greenhouse gases by the late 2040s. Under Kigali Amendment, in all 197 countries, including India have agreed to a timeline to reduce the use of HFCs by roughly 85% of their baselines by 2045.

Q44. D: WWF works on nature, wildlife preservation, protection of endangered species, sustainable development and climate change

Its funding mainly comes from individuals (55%), government sources (19%) and corporations (8%)

Q45. A

Q46. B: High crude oil prices boosted green field investments as profits were invested into alternative energy sources.

Q47. D: Devaluation of currency and export promotion policy will boost exports. Increase in domestic taxes as a part of contractionary fiscal policy will reduce spending on imports.

Q48. B: Amber box subsidies are trade distorting in nature as per WTO.

Q49. D: Sea play an important role in ocean ecosystems by maintaining healthy seagrass beds and coral reefs, providing key habitat for other marine life, helping to balance marine food webs and facilitating nutrient cycling from water to land.

Q50. D: 1. Conversion of Coal based plant to natural gas releases half the carbon dioxide per kilowatt generated. 2. High-efficiency power transmission network conserves energy thus reduces Carbon footprint.

Q51. A

Q52. C

Q53. D: The correct sequence of the given hills starting from north and going towards to south is Anamalai Hills, Nilgiri Hills, Javadi Hills, Nallamalai Hills.

Q54. A: Both assertion and reasons are true and reason is correct explanation of assertion. In north India, a feeble high-pressure region develops, with light winds moving outwards from this area. Influenced by the relief, these winds blow through the Ganga valley from West and North West, which forms an anticyclonic condition in northern part of India.

Q55. A: 1. Annie Besant and Sarojini Naidu were 1st and 2nd and only Woman Congress Presidents before Independence. 2. Bandi Jeevan was written by Sachin Nath Sanyal 3. Aruna Asaf Ali was involved in Quit India movement

Q56. C: Ibrahim Adil Shah II (1556 – 1627), of the Adil Shahi dynasty, was the king of Bijapur Sultanate.

Q57. D

Q58. A: Impeachment of the President is a quasi-judicial legislative process where ground is required which applies only in case of President.

Q59. D: Parliamentary committee means

1. Is appointed or elected by House or nominated by Speaker / Chairman
2. Works under the direction of the speaker/chairman
3. Presents its report to the House or to the speaker / chairman
4. Has a secretariat provided by the Lok Sabha / Rajya Sabha

They are of two types' standing i.e. permanent nature and Ad hoc is temporary nature (cease to exist on completion of the task assigned to them)

Q60. A: Emergency Powers of President is in addition to normal powers.

The Constitution confers Extraordinary power's on president to deal with following three emergencies

- 1) National Emergency (Article 352)
- 2) President's rule (Article 356 & 365) and
- 3) Financial Emergency (Article 360)

Q61 B: Aadhar Enabled Payment System(AEPS) works through:

1. Resident provides his/her Aadhaar number, details of financial transaction sought and fingerprint impression at the microATM device.
2. Digitally signed and encrypted data packets are transferred via Bank Switch to NPCI to UIDAI.
3. UIDAI processes the authentication request and communicates the outcome in form of Yes/No.
4. If the authentication response is Yes, bank carries out the required authorization process and advises microATM on suitable next steps.

Q62. C: Satellites which are placed in polar orbits moving across the equator in north south direction and used mainly for mapping or spying, such satellites are generally launched in south ward or north ward direction and therefore cannot take advantage of the Earth's rotation

Q63. B: Convex mirrors are used in cars while concave mirrors are used by dentists and also used in headlights of cars, solar devices, and satellite dishes.

Q64. C: India has requested membership of the group has initial support from many countries; however India does not border Pacific Ocean.

Q65. D: Credit rationing and Margin requirements are qualitative control tools of Monetary Policy

Q66. C

Q67. B: 1.Labor that falls under the underemployment classification includes those workers who are highly skilled but working in low paying jobs.

2.Under-employment may indicate a more flexible labour market with firms able to change worker hours and not be tied by fixed contracts.

3.Marginal productivity is zero in disguised unemployment.

Q68. D: Detritus food chain starts with dead and decaying matter which is further digested by soil organisms. The organic matter is ultimately decomposed by the sub soil organisms and it also helps in fixing inorganic nutrients.

Q69. D: Global Environment Facility (GEF) is a financial mechanism to support countries in efforts to achieve the goals of United Nations Conventions covering climate change, biodiversity, ozone layer depletion and Land degradation.

Q70. B: Water foot print of an individual, community or business is define as the total volume of fresh H₂O used to produce the goods & services consumed by individual or community or produced by the business.

1.Water use is measured in water volume consumed &/or polluted per unit time

2.It can be calculated for a particular products, for any well defined group of consumer (e.g. an individual, family, village city, province, state or nation) or procedure

Q71. C: When fertilizers are applied to soil, the salt content can accumulate. Increased salinity levels may result to poor plant growth, leading to a reduction in size of the plant's leaves, fruits, branches, roots and various other parts. Yield capacity also decreases with increasing soil salinity.

Q72. C : Washing of soil is mainly used to handle soil salinity.

1. On land with a decided slope, planting crops on contour strips will be an effective erosion deterrent

2. Strip cropping should be combined with crop rotation, so that a strip planted to a soil depleting, erosion-facilitating crops in one year will be sown to a soil enriching and protecting strip of crop.

3. Terrace is an embankment of earth constructed across a slope in such a way as to control water run-off and minimise erosion.

Q73. A: Bandipur National Park is in Karnataka known for its wildlife & Biomes.

Q74. B: Kalamkari is an art which got patronage from Mughals in Andhra Pradesh.

Q75. C

Q76. C: The mansabdari system was of Central Asian origin and it was first introduced by Babur in North India. But it was Akbar who institutionalized it in Mughal military set up and civil administration.

Q77. D: Secularism as value is found in Preamble, Fundamental rights, DPSP and Fundamental duties; though explicitly it is mentioned in Preamble.

Q78. D: Right to education was inserted through Article 21 A, Article 45 and Art 51- A (j)

Q79. B: Basic structure of the constitution remains inviolable as per the outcome of "Kesavanand Bharti case, 1973".

Q80. B: Nirbhay is an all-weather low-cost long-range nuclear warhead capable cruise missile with stealth and high accuracy. The missile has a range of more than 1000 km. It weighs about one tonne and has a length of 6 metres.

Q81. C: A thermonuclear weapon is a nuclear weapon that uses the energy from a primary nuclear fission reaction to compress and ignite a secondary nuclear fusion reaction

Q82. C: Adoption to BS-VI directly will require significant technological upgrades and auto companies may have to invest heavily hence vehicles will become expensive.

Q83. A: Business Angel Investors will be individuals, often successful business people, who are investing their own personal funds into a potentially rewarding business opportunity. Whereas, Venture Capital is invested by firms or companies that use other people's money and they are seldom interested in early-stage, unless compelling reasons (e.g. high tech with already successful founders)

Q84. A: The money is not directly infused or in other words, there is no direct printing of currency notes. The central bank buys assets more commonly in the form of government bonds, equities or corporate bonds from commercial banks or other financing companies.

Q85. D: India's is in 3rd stage of Demographic Transition where population growth has declined however absolute population is still increasing.

Q86. D

Q87. C

Q88. B: These are ideal condition for cotton plant

Q89. C: Biodiesel can be said as carbon neutral as the amount of carbon dioxide released when they are used is the same as the amount absorbed by the plants as they grew. If so, this would reduce the production of this greenhouse gas.

Q90. C: Turmeric contains curcumin, a substance with powerful anti-inflammatory and antioxidant properties. It can also be used as natural pesticide for gardening and bugbites.

Q91. A: Tropical cyclones move from east to west.

Q92. A: Statement 2 is incorrect as Harsha was not antagonistic to Buddhism when Hiuen -Tsang met him.

Q93. C

Q94. C

Q95. C: 1. Miniatures paintings are beautiful handmade paintings, which are quite colorful but small in size. The evolution of Indian Miniatures paintings started in the Western Himalayas, around the 17th

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century.2.Mural painting largely executed on the walls of the large structure like Ajanta caves,Lepakdhi temple, Ellora caves mostly done during Gupta age.

Q96. C

Q97. A: Lok Sabha has a prerogative in passing money bill where Rajya Sabha can only delay the bill. In case of dissolution of Lok Sabha the bill lapses.

Q98. D

Q99. B

Q100. A

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