S No	Question	Ans	Subject	Explanation	Source
1	"Rapid Financing Instrument" and "Rapid Credit Facility" are related to the provisions of which of lending by which of the following?  (a) Asian Development Bank (b) International Monetary Fund (c) United Nations Environment Programme Finance Initiative (d) World Bank	(a)	Current Affairs	These are lending facilities of the IMF that provides emergency assistance to member countries	https://www.business-standard.com/article/international/crisis-hit-sri-lanka-seeks-emergency-financial-assistance-from-imf-122041900452 1.html
2	With reference to the Indian Economy, consider the following statements:  1. An increase in Nominal Effective Exchange Rate (NEER) indicates the appreciation of rupee  2. An increase in Real Effective Exchange Rate (REER) indicates an improvement in trade competitiveness  3. An increase in trend in domestic inflation relative to inflation in other countries is likely to cause an increasing divergence between NEER and REER  Which of the above statements are correct?  (a)1 and 2 only  (b)2 and 3 only  (c)1 and 3 only  (d)1, 2 and 3	(c)	Economics		https://datahelp.imf.org/knowledgebase/a rticles/537469-what-is-nominal-effective- exchange-rate-neer  https://datahelp.imf.org/knowledgebase/a rticles/537472-what-is-real-effective- exchange-rate-reer
	With reference to the Indian economy, consider the following statements:  1. If the inflation is too high, the RBI is likely to buy government securities  2. If the rupee is rapidly depreciating, RBI is likely to sell dollars in the market  3. If interest rates in the USA or European Union were to fall, that is likely to induce RBI to buy dollars  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(b)		If the inflation is high and if the RBI wants to curb liquidity, it would sell government securities. So statement 1 is incorrect.  If the currency starts depreciating against the dollar, then the central bank can sell its dollar reserves and buy the local currency in order to stop the depreciation. So statement 2 is correct.  If interest rates in the US or the EU were to fall, FIIs will ramp up investments in India. The resultant demand for rupees will cause the rupee to appreciate. In response, RBI will buy dollars and inject rupees in to the system. So statement 3 is correct.	C%20RBI,an%20unsterilised%20fashion. https://theprint.in/ilanomics/why-rbis-hoarding-of-forex-reserves-over-currency-



S No	Question	Ans	Subject	Explanation	<u>Source</u>
4	With reference to the ''G20 Common Framework'', consider the following statements:  1.It is an initiative endorsed by the G20 together with the Paris Club  2.It is an initiative to support Low Income Countries with unsustainable debt  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		Economics	DSSI (Common Framework) is an initiative endorsed by the G20, together with the Paris Club, to support, in a structural manner, Low Income Countries with unsustainable debt.	https://www.mef.gov.it/en/G20- Italy/common-framework.html
5	With reference to the Indian economy, what are the advantages of 'Inflation-Indexed Bonds (IIBs)?  1.Government can reduce the coupon rates on its borrowing by way of IIBs  2.IIBs provide protection to the investors from uncertainty regarding inflation  3.The interest received as well as capital gains on IIBs are not taxable  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(a)		Interest rate will be provided protection against inflation by paying fixed coupon rate on the principal adjusted against inflation. So Statement 2 is correct.  The interest payment and capital gains accrual due to inflation are taxable. So Statement 3 is incorrect.	en.pdf
6	With reference to foreign-owned e-commerce firms operating in India, which of the following statements is/are correct?  1. They can sell their own good in addition to offering their platforms as market-places  2. The degree to which they can own big sellers on their platforms is limited  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	(a)		and services are owned by an e-commerce firm that sells directly to retail customers. So statement 1 is incorrect.  An e-commerce entity will not be permitted more than 25% of sales through its marketplace from one vendor or their group companies. So statement 2 is correct.	hat-are-india-s-new-foreign-direct-investment-rules-for-e-commerce-1548945138551.html https://www.business-



S No	Question	Ans	Subject	Explanation	<u>Source</u>
7	Which of the following activities constitute real sector in the economy?  1.Farmers harvesting their crops  2.Textile mills converting raw cotton into fabrics  3.A commercial bank lending money to a trading company  4.A corporate body issuing Rupee Denominated Bonds overseas  Select the correct answer using the code given below:  (a)1 and 2 only  (b)2, 3 and 4 only  (c)1, 3 and 4 only  (d)1, 2 3 and 4		Economics	The real economy concerns the production, purchase and flow of goods and services (like oil, bread and labour) within an economy. It is contrasted with the financial economy, which concerns the aspects of the economy that deal purely in transactions of money and other financial assets, which represent ownership or claims to ownership of real sector goods and services.  So options 1, 2 are correct	
8	Which of the following situations best reflects ''Indirect Transfers'' often talked about in media recently with reference to India?  a)An Indian company investing in a foreign enterprise and paying taxes to the foreign country on the profits arising out of its investment  b)A foreign company investing in India and paying taxes to the country of its base on the profits arising out of its investment c)An Indian company purchases tangible assets in a foreign country and sells such assets after their value increases and transfers the proceeds to India d)A foreign company transfers shares and such shares derive their substantial value from assets located in India	' (d)	Economics	entities own shares or assets in India, the shares of such foreign entities are transferred instead of a direct transfer of the underlying assets in India.	https://www.nishithdesai.com/Content/do cument/pdf/Articles/171023 A Indirect- Transfer-Taxation-in-India.pdf https://economictimes.indiatimes.com/ind ustry/indl-goods/svs/cement/adani-holcim- deal-and-the-legacy-vodafone-tax- issue/articleshow/91619826.cms
	With reference to the expenditure made by an organization or a company, which of the following statements is/are correct?  1. Acquiring new technology is capital expenditure  2. Debt financing is considered capital expenditure, while equity financing is considered revenue expenditure  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	(a)		new technology and other assets for growth. So	https://smallbusiness.chron.com/capital- expenditure-different-routine-revenue- expenditure- 71527.html#:~:text=Capital%20expenditure s%20are,describe%20the%20expenditure. https://www.investopedia.com/terms/c/capitalexpenditure.asp



S No	Question	Ans	Subject	Explanation	<u>Source</u>
10	With reference to the Indian economy, consider the following statements:  1. A share of the household financial savings goes towards government borrowings.  2. Dated securities issued at market-related rates in auctions form a large component of internal debt.  Which of the above statements are correct?  (a)1 only (b)2 only (c)Both 1 and 2 (d)Neither 1 nor 2			Both statements are correct.	https://dea.gov.in/sites/default/files/Status% 20Paper%20on%20Government%20Debt.p df https://dea.gov.in/sites/default/files/govt_de bt_status_paper_2016_0.pdf
11	Consider the following statements:  1. Pursuant to the report of H.N. Sanyal Committee, the Contempt of Courts Act, 1971 was passed.  2. The Constitution of India empowers the supreme court and High court to punish for contempt of themselves  3. The Constitution of India defines Civil Contempt and Criminal contempt.  4. In India, the Parliament is vested with the powers to make laws on Contempt of Court  Which of the statements given above is/are correct?  (a) 1 and 2 only  (b) 1, 2 and 4  (c) 3 and 4 only  (d) 3 only	(b)	Polity	Pursuant to the report of H.N. Sanyal Committee, the Contempt of Courts Act, 1971 was passed So Statement 1 is correct Article 129 and 215 of the Constitution of India empowers the Supreme Court of India and High Courts respectively to take action against the contempt. So statement 2 is correct The Constitution does not define 'contempt of court'. It is the Contempt of Courts Act 1971, which defines it. So statement 3 is incorrect. As per Article 142 (2), the Parliament is vested with the powers to make laws on Contempt of Court. So statement 4 is correct	https://theleaflet.in/explainer-attorney-generals-consent-for-criminal-contempt-of-court-proceedings/#:~:text=In%20pursuance%20 of,administration%20of%20justice.  https://theleaflet.in/explainer-attorney-generals-consent-for-criminal-contempt-of-court-proceedings/#:~:text=Further%2C%20Article%20129%20and%20215%20of%20the%20 Constitution%20of%20India%20empowers%20the%20Supreme%20Court%20of%20India%20and%20High%20Courts%20respectively%20to%20take%20action%20against%20the%20contempt.%C2%A0  https://theleaflet.in/explainer-attorney-generals-consent-for-criminal-contempt-of-court-proceedings/#:~:text=According%20to%20the,act%2C%20whatsoever%20which%3B



S No	Question	Ans	Explanation	<u>Source</u>
12	With reference to India, consider the following statements:  1.Government law officers and legal firms are recognized as advocates, but corporate lawyers and patent attorneys are excluded from recognition as advocates.  2.Bar Councils have the power to lay down the rules relating to legal education and recognition of law colleges.  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	(b)	and patent attorneys all are recognised as advocates. So statement 1 is incorrect.	https://lawcorner.in/functions-of-bar- council-of- india/#Composition of Bar Council of In dia
13	Consider the following statements:  1.A bill amending the Constitution requires a prior recommendation of the President of India.  2.When a Constitution Amendment Bill is presented to the President of India, it is obligatory for the President of India to give his/her assent  3.A Constitution Amendment Bill must be passedoth the Lok Sabha and Rajya Sabha by a special majority and there is no provision for Joint Sitting  Which of the statements given above are correct?  (a)1 and 2 only  (b)2 and 3 only  (c)1 and 3 only  (d)1, 2 and 3	(b)	Constitution amendment bill can be introduced either by a minister or by a private member and does not require prior permission of the president. So statement 1 is incorrect.  Once a Constitutional Amendment Bill is passed by both the Houses of Parliament and ratified by the state legislatures where necessary, the President must give his assent to the bill. He can neither withhold his assent to the bill nor return the bill for reconsideration of Parliament. So statement 2 is correct.  Certain types of Amendment bills can be passed by simple majority in the Parliament. However, they are not deemed as Constitution Amendment Bills.  Also, Joint Sitting is not possible in a CA Bill. So statement 3 is correct.	



S No	Question	Ans Subject	Explanation	<u>Source</u>
14	Consider the following statements:  1. The Constitution of India classifies the ministers into four ranks viz. Cabinet Minister, Minister of State with Independent Charge, Minister of State and Deputy Minister  2. The total number of ministers in the Union Government, including the Prime Minister, shall not exceed 15 percent of the total number of members in the Lok Sabha  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	(b) Polity	The Constitution does not classify the members of the Council of Ministers into different ranks, viz. that of the Cabinet rank, that of the Minister of State rank and that of the Deputy Minister. All this has been done following the British practice and in view of administrative convenience. So statement 1 is incorrect As per the changes introduced in 91st amendment, the total number of Ministers, including the Prime Minister, in the Council of Ministers shall not exceed fifteen per cent. of the total number of members of the Loksabha. So statement 2 is correct	https://eparlib.nic.in/bitstream/123456789 /759802/1/Council of Ministers English.p df page 8  Indian Polity - Laxmikanth
15	Which of the following is/are the exclusive power(s) of Lok Sabha?  1.To ratify the declaration of Emergency  2.To pass a motion of no-confidence against the Council of Ministers  3.To impeach the President of India  Select the correct answer using the code given below:  (a) 1 and 2  (b) 2 only  (c) 1 and 3  (d) 3 only	Polity Polity	Ratification of declaration of Emergency has to be approved by both the houses of the Parliament. So statement 1 is incorrect.  Passing a motion of no-confidence against the Council of Ministers is an exclusive power of Loksabha. So statement 2 is correct.  Impeachment motion of President has to be approved by both the houses of the Parliament. So statement 3 is incorrect.	Indian Polity - by Laxmikanth
16	With reference to anti-defection law in India, consider the following statements:  1. The law specifies that a nominated legislator cannot join any political party within six months of being appointed to the House.  2. The law does not provide any time-frame within which the presiding officer has to decide a defection case.  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	(b) Polity	Nominated MPs/MLAs can join a political party within six months after being nominated. If they join a party after such time, they stand to lose their seat in the House. So statement 1 is incorrect. The law does not provide a time-frame within which the presiding officer has to decide a defection case. So statement 2 is correct.	https://indianexpress.com/article/explained/the-anti-defection-law-and-how-it-has-often-failed-to-discourage-defection-7554426/



S No	Question	Ans Subject	Explanation	Source
17	Consider the following statements:  1. Attorney General of India and Solicitor General of India are the only officers of the Government who are allowed to participate in the meetings of the Parliament of India.  2. According to the Constitution of India, the Attorney General of India submits his resignation when the Government which appointed him resigns.  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	(d) Polity	Article 88 states that every Minister and the Attorney-General has the right to speak in Parliament and can participate in proceedings of it and can also take part in the joint sitting of both Lok Sabha and Rajya Sabha and in any of Parliamentary Committees, in which he is named as a member but has no right to vote. So statement 1 is incorrect.  The constitution does not mandate the Attorney General of India to submit his resignation when the Government which appointed him resigns. He holds office during the pleasure of teh President. So statement 2 is incorrect.	Indian Polity - by Laxmikanth
	With reference to the writs issued by the Courts in India, consider the following statements:  1. Mandamus will not lie against a private organization unless it is entrusted with a public duty.  2. Mandamus will not lie against a Company even though it may be a Government Company.  3. Any public minded person can be a petitioner to move the Court to obtain the writ of Quo Warranto.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(c) Polity	According to the Supreme Court judgment in Anandi Mukta Sadguru Shree Mukta vs V.R. Rudani & Ors, In case of a purely a private body with no public duty, mandamus would not lie. So statement 1 is correct. Mandamus can be issued against Government companies. So statement 2 is incorrect. Unlike the other four writs, Quo Warranto can be sought by any interested person and not necessarily by the aggrieved person. So statement 3 is correct.	Indian polity-Laxmikanth  https://indiankanoon.org/doc/1728255/#:~:t ext=(3)%09%20If%20the,denied.%20%5B 705B%2DC%5D  https://www.jstor.org/stable/43950186
	With reference to Ayushman Bharat Digital Mission, consider the following statements:  1. Private and public hospitals must adopt it.  2. As it aims to achieve universal health coverage, every citizen of India should be part of it ultimately.  3. It has seamless portability across the country.  Which of the statements given above is/are correct?  (a)1 and 2 only  (b)3 only  (c)1 and 3 only  (d)1, 2 and 3	(b) Schemes	It is volutary for both private hospitals and citizens. So statements 1, 2 are incorrect.  It is aimed at improving equitable access to quality healthcare by encouraging the use of technologies such as telemedicine and enabling national portability of health services. So statement 3 is correct.	https://thewire.in/health/explainer-ayushman-bharat-digital-mission-health-id-aadhaar-records#:~:text=Is%20this%20whole%20system%20voluntary%20or%20mandatory%20for%20Indian%20citizens%3Fhttps://ndhm.gov.in/faqhttps://www.livemint.com/news/india/cabinet-nod-to-national-rollout-of-ayushman-bharat-digital-mission-for-5-years-11645868308479.html



S No	Question	Ans	Subject	Explanation	Source
20	•		Polity	The election of a Deputy Speaker shall be held on such date as the Speaker may fix. So statement 1 is correct.  There is no such provision that Deputy Speaker of Lok	https://loksabhaph.nic.in/rules/rules.pdf page 39  https://indianexpress.com/article/explaine d/explained-electing-a-speaker-deputy- speaker- 7399970/#:~:text=Usually%2C%20the%20S peaker%20comes,was%20the%20Deputy% 20Speaker.
21	Among the following crops, which one is the most important anthropogenic source of both methane and nitrous-oxide?  (a)Cotton (b)Rice (c)Sugarcane (d)Wheat	(b)	t & Ecology	Important anthropogenic sources of biogenic methane are wet rice fields, cattle, animal waste, landfills and biomass burning.	https://link.springer.com/article/10.1007/B F00748940#:~:text=Important%20anthropo genic%20sources%20of%20biogenic,and%2 Ouse%20and%20manure%20application.
22	"System of Rice Intensification" of cultivation, in which alternate wetting and drying of rice fields is practised, results in:  1.Reduced seed requirement  2.Reduced methane production  3.Reduced electricity consumption  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)1, 2 and 3	(d)	Agriculture	All the given options are correct.	http://sri.ciifad.cornell.edu/aboutsri/FAQs1 .html



S No	Question	Ans	Subject	Explanation	Source
23	Which one of the following lakes of West Africa has become dry and turned into a desert?  (a)Lake Victoria  (b)Lake Faguibine  (c)Lake Oguta  (d)Lake Volta	(b)	Geography	Lake Faguibine is a lake in Mali on the southern edge of the Sahara Desert.	
24	Gandikota canyon of South India was created by which one of the following rivers?  (a)Cauvery (b)Manjira (c)Pennar (d)Tungabhadra	(c)	Current Affairs	Gandikota is a small village in the Kadapa district of Andhra Pradesh that is known for its spectacular gorge formed by the river Pennar that cuts through the Erramala hills.	https://timesofindia.indiatimes.com/city/vij ayawada/state-plans-to-renew-efforts-to-get- unesco-tag-for- gandikota/articleshow/85281606.cms
25	Consider the following pairs  Peak Mountains  1.Namcha Barwa – Garhwal Himalaya  2.Nanda Devi – Kumaon Himalaya  3.Nokrek – Sikkim Himalaya  Which of the pairs given above is/are correctly matched?  (a)1 and 2  (b)2 only  (c)1 and 3  (d)3 only	(b)	Geography	Namcha Barwa is located on the extreme east of Arunachal Pradesh; while Garhwal Himalayas are located in Uttarakhand. So pair 1 is incorrect.  Nanda Devi is in Uttarakhand(Kumaon Himalayas) So pair 2 is correct.  Nokrek is in Meghalaya. So pair 3 is incorrect.	Ref Indian Map
26	The term "Levant" often heard in the news roughly corresponds to which of the following regions?  (a)Region along the eastern Mediterranean shores (b)Region along North African shores stretching from Egypt to Morocco (c)Region along Persian Gulf and Horn of Africa (d)The entire coastal areas of Mediterranean Sean	(a)	Current Affairs		https://indianexpress.com/article/technolo gy/science/biomolecules-ancient-trade- networks-7408063/



S No	Question	Ans	Subject	Explanation	<u>Source</u>
27	Consider the following countries:  1. Azerbaijan  2. Kyrgyzstan  3. Tajikistan  4. Turkmenistan  5. Uzbekistan  Which of the above have borders with Afghanistan?  (a)1, 2 and 5 only  (b)1, 2, 3 and 4 only  (c)3, 4 and 5 only  (d)1, 2, 3, 4 and 5		Geography	It is bounded to the east and south by Pakistan	https://www.britannica.com/place/Afghanistan
28	With reference to India, consider the following statements:  1.Monazite is a source of rare earths.  2.Monazite contains thorium.  3.Monazite occurs naturally in the entire Indian coastal sands in India.  4.In India, Government bodies only can process or export monazite.  Which of the statements given above are correct?  (a)1, 2 and 3 only (b)1, 2 and 4 only (c)3 and 4 only (d)1, 2, 3 and 4	(b)	t & Ecology	,	https://pib.gov.in/newsite/PrintRelease.as px?relid=112033
29	In the northern hemisphere, the longest day of the year normally occurs in the:  (a)First half of the month of June (b)Second half of the month of June (c)First half of the month of July (d)Second half of the month of July	(b)	Geography	June 21 is the longest day of a year in Northern Hemisphere(Summer solstice).	https://indianexpress.com/article/explaine d/summer-solstice-explained-why-june-21- will-be-the-longest-day-of-the-year-in- northern-hemisphere- 7367636/#:~:text=in%20Northern%20Hemi sphere- ,Summer%20solstice%3A%20Why%20June %2021%20will%20be%20the%20longest%2 0day,the%20year%20in%20Northern%20H emisphere



S No	Question	Ans	Subject	Explanation	<u>Source</u>
30	Consider the following pairs:  Wetland / Lake Location  1. Hokera Wetland – Punjab  2. Renuka Wetland – Himachal Pradesh  3. Rudrasagar Lake — Tripura  4. Sasthamkotta Lake – Tamil Nadu  How many pairs given above are correctly matched?  (a) Only one pair  (b) Only two pairs  (c) Only three pairs  (d) All four pairs	(b)	Environmen t & Ecology	Hokera Wetland - Jammu & Kashmir Renuka Wetland – Himachal Pradesh Rudrasagar Lake — Tripura Sasthamkotta Lake – Kerala Pairs 2 & 3 are correctly matched.	
31	Consider the following:  1.Aarogya Setu  2.CoWIN  3.DigiLocker  4.DIKSHA  Which of the above are built on top of open-source digital platforms?  (a)1 and 2 only (b)2, 3 and 4 only (c)1, 3 and 4 only (d)1, 2, 3 and 4	(d)	Current Affairs	All the four are Open source digital platforms.	https://indianexpress.com/article/opinion/columns/free-and-open-source-software-linux-user-groups-aadhaar-gstn-digilocker-7477122/
32	With reference to Web 3.0, consider the following statements:  1.Web 3.0 technology enables people to control their own data.  2.In Web 3.0 world, there can be blockchain based social networks.  3.Web 3.0 is operated by users collectively rather than a corporation.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(d)		Web 3.0 gives users control of their data. So statement 1 is correct.  Web 3.0 is based on blockchain technology, which incorporates concepts such as decentralization and token-based economics. So statement 2 is correct.  It's operated by users collectively, rather than a corporation. So statement 3 is correct.	news/story/web-30-giving-users-control-of- their-data-335530-2022-05-28



S No	Question	Ans	Subject	Explanation	Source
33	following statements:  1.SaaS buyers can customise the user interface and can change data fields.  2.SaaS users can access their data through their mobile devices.  3.Outlook, Hotmail and Yahoo! Mail are forms of SaaS.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3				https://www.creatio.com/page/saas#:~:tex t=Yes.%20Modern%20SaaS,within%20the% 20solution. https://affluentgs.com/software-service#:~:text=The%20common%20form% 20of%20SaaS%20use%20is%20a%20web% 2Dbased%20email%20service%20such%20 as%20Outlook%2C%20Hotmail%20or%20Y ahoo!%20Mail%2C%20with%20these%20se rvices%2C%20you%20access%20your%20a ccount%20over
34	Which one of the following statements best reflects the idea behind the "Fractional Orbital Bombardment System" often talked about in media?  (a)A hypersonic missile is -launched into space to counter the asteroid approaching the Earth and explode it in space.  (b)A spacecraft lands on another planet after making several orbital motions.  (c)A missile is put into a stable orbit around the Earth and deorbits over a target on the Earth.  (d)A spacecraft moves along a comet with the same speed and places a probe on its surface.	` ′	Affairs	The idea behind FOBS is, a warhead is put into a stable orbit and it deorbits over the target. If the target and the launch position is lined up and the warhead keeps going round, it will complete a circle. Obviously, with the earth moving during this, it is more of a spiral than a ring, but the horizontal movement is countered in such a way that the warhead still goes over the target.	
35	Which one of the following is the context in which the term "qubit" is mentioned?  (a)Cloud Services (b)Quantum Computing (c)Visible Light Communication Technologies (d)Wireless Communication Technologies	(b)	Sci & Tech	1 1	https://www.techtarget.com/whatis/definition/qubit



S No	Question	Ans	Subject	Explanation	Source
36	Consider the following communication technologies: 1.Closed-circuit Television 2.Radio Frequency Identification 3.Wireless Local Area Network Which of the above are considered Short-Range devices/technologies? (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(d)	Sci & Tech	All three statements are correct.	https://www.paessler.com/it-explained/cctv https://en.wikipedia.org/wiki/Wireless LA N#:~:text=A%20wireless%20LAN%20(WLA N)%20is,%2C%20campus%2C%20or%20offi ce%20building. https://www.investopedia.com/terms/r/ra dio-frequency-identification- rfid.asp#:~:text=Radio%20Frequency%20Id entification%20(RFID)%20is,checked%20ou t%20of%20a%20library.
37	Consider the following statements:  1.Biofilms can form on medical implants within human tissues.  2.Biofilms can form on food and food processing surfaces.  3.Biofilms can exhibit antibiotic resistance.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(d)	Sci & Tech	All three statements are correct.	https://onlinelibrary.wiley.com/doi/pdf/10. 1002/jppr2002322153#:~:text=In%20medic ine%2C%20biofilms%20form%20on,includi ng%20biocides%20and%20anti%20biotics.
38	Consider the following statements in respect of probiotics:  1.Probiotics are made of both bacteria and yeast.  2.The organisms in probiotics are found in foods we ingest but they do not "naturally occur in our gut.  3.Probiotics help in the digestion of milk sugars.  Which of the statements given above is/are correct?  (a)1 only (b)2 only (c)1 and 3 (d)2 and 3	(c)		Probiotics are a combination of live beneficial bacteria and/or yeasts that naturally live in your body. So statement 1 is correct.  They naturally live in our body. So statement 2 is incorrect.  Many Probiotics bacterial strains produce betagalactosidase, an enzyme that acts like lactase and can help in the digestion of milk sugars. So statement 3 is correct.	https://my.clevelandclinic.org/health/articles/14598-probioticshttps://www.optibacprobiotics.com/professionals/latest-research/general-health/probiotic-supplements-help-lactose-intolerance#:~:text=But%20it's%20also%20the%20action,like%20lactase%20and%20can%20help



S No	Question	Ans	Subject	Explanation	Source
39	In the context of vaccines manufactured to prevent COVID-19 pandemic, consider the following statements:  1. The Serum Institute of India produced COVID-19 vaccine named Covishield using mRNA platform.  2. Sputnik V vaccine is manufactured using vector-based platform.  3. COVAXIN is an inactivated pathogen-based vaccine.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(b)	Sci & Tech	Unlike mRNA vaccines, Serum Institutes Covishield uses the viral vector platform. So statement 1 is incorrect.  The Sputnik V vaccine is based on a proven well-studied human adenovirus vector platform; these vectors cause the common cold. So statement 2 is correct.	https://timesofindia.indiatimes.com/life-style/health-fitness/health-news/india-to-develop-its-first-mrna-vaccine-how-it-differs-from-existing-covid-vaccines-in-india/photostory/89821119.cms  https://sputnikvaccine.com/about-vaccine/#:~:text=The%20Sputnik%20V%2 0vaccine%20is,vectors%20for%202%20vaccine%20shots.
40	If a major solar storm (solar-flare) reaches the Earth, which of the following are the possible. effects on the Earth?  1.GPS and navigation systems could fail.  2.Tsunamis could occur at equatorial regions.  3.Power grids could be damaged.  4.Intense auroras could occur over much of the Earth.  5.Forest fires could take place over much of the planet.  6.Orbits of the satellites could be disturbed.  7.Shortwave radio communication of the aircraft flying over polar regions could be interrupted.  Select the correct answer using the code given below:  (a)1, 2, 4 and 5 only  (b)2, 3, 5, 6 and 7 only  (c)1,3, 4, 6 and 7 only  (d)1, 2, 3, 4, 5, 6 and 7.	(c)		outage, including affecting GPS, phones, disrupting radio waves, telecommunication networks, power systems and electricity supply.  So statements 1, 3 and 7 are correct.  However, there is no established connection between solar storms and tsunamis.  So statement 2 is incorrect.  The storms can often be observed as beautiful aurorae in our night sky. So statement 4 is correct.	https://www.inverse.com/science/a-recent-uptick-in-solar-storms-has-scientists-worried#:~:text=The%20storms%20can%2 0often%20be%20observed%20as%20beaut iful%20aurorae%20in%20our%20night%2 0sky https://tech.hindustantimes.com/tech/news/nasa-says-big-solar-storm-headed-towards-earth-can-damage-gps-phone-signals-electricity-71642772183326.html#:~:text=NASA%20 has%20revealed%20that%20a%20solar%2 0storm%20is%20headed%20towards%20E arth%20that%20can%20cause%20possible %20power%20and%20communication%20 outage%2C%20including%20affecting%20 GPS%2C%20phones%2C%20and%20elect ricity%20supply. https://economictimes.indiatimes.com/news/politics-and-nation/cant-blame-it-on-the-sun/articleshow/7690782.cms?from=mdr



S No	Question	Ans	Subject	Explanation	<u>Source</u>
	"Climate Action Tracker" which monitors the emission reduction pledges of different countries is a:  (a)Database created by coalition of research organisations (b)Wing of "International Panel of Climate Change" (c)Committee under "United Nations Framework Convention on Climate Change" (d)Agency promoted and financed by United Nations Environment Programme and World Bank	(a)	t & Ecology	The Climate Action Tracker (CAT) is an independent scientific analysis produced by two research organisations tracking climate action since 2009.	https://climateactiontracker.org/ https://www.downtoearth.org.in/news/climate-change/india-s-climate-action-highly-insufficient-new-rating-system-79051
	Consider the following statements:  1. "The Climate Group" is an international non-profit organization that drives climate action by building large networks and runs them.  2. The International Energy Agency in partnership with the Climate Group launched a global initiative "EP100".  3. EP100 brings together leading companies committed to driving innovation in energy efficiency and increasing competitiveness while delivering on emmission reduction goals.  4. Some Indian companies are members of EP100.  5. The International Energy Agency is the Secretariat to the "Under2 Coalition".  Which of the statements given above are correct?  (a)1, 2, 4 and 5  (b)1, 3 and 4 only  (c)2, 3 and 5 only  (d)1, 2, 3, 4 and 5		t & Ecology	EP100 is a global corporate energy efficiency initiative bringing together over 120 ambitious businesses committed to measuring and reporting on efficiency improvements. So statement 2 is incorrect.  The Climate Group's global EP100 initiative brings together a growing group of energy-smart companies committed to improving their energy productivity and increasing competitiveness while delivering on emissions reduction goals. Statement 3 is correct.  Some Indian companies like Mahindra & Mahindra, UltraTech cement are members of EP100. So statement 4 is correct	https://www.theclimategroup.org/ep100 https://www.theclimategroup.org/media/9 926/download  https://www.thehindubusinessline.com/co mpanies/mahindra-joins-ep100-campaign- to-double-its-energy- productivity/article64334139.ece https://www.ultratechcement.com/about- us/media/press-releases/ultratech-cement- joins-ep100pledges-to-doubleenergy- productivity  https://www.theclimategroup.org/under2- coalition



SN	o Question	Ans	Subject	Explanation	Source
43	"If rainforests and tropical forests are the lungs of the Earth, then surely wetlands function as its kidneys." Which one of the following functions of wetlands best reflects the above statements? (a)The water cycle in wetlands involves surface runoff, subsoil percolation and evaporation.  (b)Algae from the nutrient base upon which fish, crustaceans, molluses, birds, reptiles and mammals thrive.  (c)Wetlands play a vital role in maintaining sedimentation balance and soil stabilization.  (d)Aquatic plants absorb heavy metals and excess nutrients.		Environmen t & Ecology	Aquatic plants absorb excess nutrients and contribute to	https://frontline.thehindu.com/environme nt/wetlands-in- peril/article8017664.ece#:~:text=These%20 aquatic%20plants,as%20its%20kidneys.
44	In the context of In WHO Air Quality Guidelines, consider the following statements:  1. The 24-hour mean of PM2.5 should not exceed 15 ug/m3 and annual mean of PM2.5 should not exceed 5 µg/m³.  2. In a year, the highest levels of ozone pollution occur during the periods of inclement weather.  3. PM10 can penetrate the lung barrier and enter the bloodstream.  4. Excessive ozone in the air can trigger asthma.  Which of the statements given above are correct?  (a)1, 3 and 4  (b)1 and 4 only  (c)2, 3 and 4  (d)1 and 2 only	(a)	t & Ecology	The Fine particulate matter (PM2.5) should be 5 μg/m3 for annual mean and 15 μg/m3 for 24-hour mean. So statement 1 is correct. The highest levels of ozone pollution occur during periods of sunny weather. So statement 2 is incorrect.  PM2.5 can penetrate the lung barrier and enter the blood system. So statement 3 is incorrect.  Ozone is a major factor in asthma morbidity and mortality. So statement 4 is correct.	https://www.who.int/news-room/fact-sheets/detail/ambient-(outdoor)-air-quality-and-health
45	With reference to "Gucchi" sometimes mentioned in the news, consider the following statements:  1. It is a fungus.  2. It grows in some Himalayan Forest areas.  3. It is commercially cultivated in the Himalayan foothills of northeastern India.  Which of the statements given above is/are correct?  (a)1 only (b)3 only (c)1 and 2 (d)2 and 3	(c)	Current Affairs		https://indianexpress.com/article/lifestyle/food-wine/gucchi-mushrooms-cost-health-benefits-6484874/



S No	Question	Ans	Subject	Explanation	<u>Source</u>
46	With reference to polyethylene terephthalate, the use of which is so widespread in our daily lives, consider the following statements:  1. Its fibres can be blended with wool and cotton fibres to reinforce their properties.  2. Containers made of it can be used to store any alcoholic beverage.  3. Bottles made of it can be recycled into other products.  4. Articles made of it can be easily disposed of by incineration without causing greenhouse gas emmisions.  Which of the statements given above are correct?  (a)1 and 3  (b)2 and 4  (c)1 and 4  (d)2 and 3	(a)	Environmen t & Ecology	·	https://economictimes.indiatimes.com/ind ustry/indl-goods/svs/paper-/-wood-/-glass/- plastic/-marbles/plastic-industry-opposes- ban-on-alcohol-sale-in-pet- bottles/articleshow/50957939.cms http://www.petresin.org/news_introtoPET. asp#:~:text=PET%20is%20completely%20re cyclable%2C%20and,States%20each%20ye ar%20for%20recycling. https://www.sciencedirect.com/science/ar ticle/pii/B9780128113615000031
47	Which of the following is not a bird? (a)Golden Mahseer (b)Indian Nightjar (c)Spoonbill (d)White Ibis	(a)	Environmen t & Ecology	Golden mahseer, is an endangered species of cyprinid fish that is found in rapid streams, riverine pools, and lakes in the Himalayan region.	https://www.downtoearth.org.in/blog/wild life-biodiversity/india-needs-to-set-a-new- conservation-agenda-for-mahseer-69546
48	Which of the following are nitrogen-fixing plants?  1.Alfalfa  2.Amaranth  3.Chickpea  4.Clover  5.Purslane (Kulfa)  6.Spinach  Select the correct answer using the code given below:  (a)1, 3 and 4 only  (b)1, 3, 5 and 6 only  (c)2, 4, 5 and 6 only  (d)1, 2, 4,5 and 6	(a)	Agriculture	Amarnath, Purslane, Spinach are not nitrogen fixing plants.	https://www.thehindu.com/features/home s-and-gardens/gardens/natural-nutrition- for-plants/article5735861.ece https://www.lcsun- news.com/story/news/local/2019/08/10/t hese-weeds-could-fill-nutrition-gap-low- income-communities/1972384001/



S No	Question	Ans	Subject	Explanation	<u>Source</u>
49	"Biorock technology" is talked about in which one of the following situations?  (a)Restoration of damaged coral reefs (b)Development of building materials using plant residues (c)Identification of areas for exploration/extraction of shale gas (d)Providing salt licks for wild animals in forests/protected areas.	(a)		Biorock is a novel technology to create an artificial coral reef or repair damaged coral reefs.	https://www.thehindu.com/sci- tech/science/india-begins-coral-restoration- in-gulf-of-kachchh/article30645770.ece
50	The "Miyawaki method" is well known for the:  (a)Promotion of commercial farming in arid and semi-arid areas (b)Development of gardens using genetically modified flora (c)Creation of mini forests in urban areas (d)Harvesting wind energy on coastal areas and on sea surfaces	(c)	t & Ecology	square metre. Pioneered by Japanese Botanist Akira Miyawaki, the technique involves growing thousands of	https://www.hindustantimes.com/cities/de Ihi-news/delhi-unified-mcd-spells-green- plan-to-create-20-miniforests- 101653849544635.html
51	In the Government of India Act 1919, the functions of Provincial Government were divided into "Reserved" and "Transferred" subjects. Which of the following were treated as "Reserved" subjects?  1. Administration of Justice 2. Local Self-Government 3. Land Revenue 4. Police Select the correct answer using the code given below:  (a)1, 2 and 3  (b)2, 3 and 4  (c)1, 3 and 4  (d)1, 2 and 4		Modern Indian History	The reserved subjects came under the heading of law and order and included justice, the police, land revenue, and irrigation. The transferred subjects (i.e., those under the control of Indian ministers) included local self-government, education, public health, public works, and agriculture, forests, and fisheries.	https://www.britannica.com/topic/dyarchy #:~:text=The%20reserved%20subjects,fores ts%2C%20and%20fisheries.
52	In medieval India, the term "Fanam" referred to: (a)Clothing (b)Coins (c)Ornaments (d)Weapons		Ancient / Medieval Indian History	Fanam is a type of Coin used In medieval India	https://timesofindia.indiatimes.com/city/bengaluru/tales-of-the-rupee/articleshow/71130395.cms



SI	o Question	Ans	Subject	Explanation	<u>Source</u>
53	Consider the following freedom fighters:  1.Barindra Kumar Ghosh  2.Jogesh Chandra Chatterjee  3.Rash Behari Bose  Who of the above was/were actively associated with the Ghadar Party?  (a)1 and 2  (b)2 only  (c)1 and 3  (d)3 only	(d)	Modern Indian History	Barindra Kumar Ghosh- Anushilan Samiti Jogesh Chandra Chatterjee- Anushilan Samiti Rash Behari Bose- Ghadar Party	https://www.wikiwand.com/en/Revolution ary movement for Indian independence https://www.livehistoryindia.com/story/pe ople/ghadar-party-call-for-freedom-across- oceans
54	With reference to the proposals of Cripps Mission, consider the following statements:  1. The Constituent Assembly would have members nominated by the Provincial Assemblies as well as the Princely States.  2. Any Province, which is not prepared to accept the new Constitution would have the right to sign a separate agreement with Britain regarding its future status.  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		Modern Indian History	Members of this assembly would be partly <b>elected (not nominated)</b> by the provincial assemblies through proportional representation and partly nominated by the princess. So statement 1 is incorrect.  Any province not willing to join the Union could have a separate constitution and form a separate Union So statement 2 is correct.	https://www.thehansindia.com/posts/inde x/Education-and-Careers/2015-05- 06/Cripps-Mission/149036
55	With reference to Indian history, consider the following texts:  1.Nettipakarana 2.Parishishtaparvan 3.Avadanashataka 4.Trishashtilakshana Mahapurana Which of the above are Jaina texts?  (a)1, 2 and 3  (b)2 and 4 only  (c)1, 3 and 4  (d)2, 3 and 4		Ancient / Medieval Indian History	Nettipakaraṇa is a mythological Buddhist scripture. So option 1 is incorrect.  The Parishishtaparvan is a 12th-century Sanskrit mahakavya by Hemachandra which details the histories of the earliest Jain teachers. So option 2 is correct.  Avadānaśataka is the name given to a type of Buddhist literature. So option 3 is incorrect.  Trishashthilkshana Mahapurana is a major Jain text composed largely by Acharya Jinasena. So option 4 is correct.	https://dbpedia.org/page/Nettipakara%E1%B9%87ahttps://en.wikipedia.org/wiki/Parishishtaparvanhttps://en.wikipedia.org/wiki/Avadanasatakahttps://en.wikipedia.org/wiki/Mahapurana_(Jainism)



S No	Question	Ans	Subject	Explanation	Source
56			Ancient / Medieval Indian History	Āryadeva was a Mahayana Buddhist monk. Dignāga was an Indian Buddhist scholar. Nathamuni was a Vaishnava theologian who collected and compiled the Nalayira Divya Prabandham. So pairs 2 & 3 are correctly matched.	https://en.wikipedia.org/wiki/Nathamuni https://en.wikipedia.org/wiki/Dign%C4%81 ga https://en.wikipedia.org/wiki/Aryadeva
57	With reference to Indian history, consider the following statements:  1. The first Mongol invasion of India happened during the reign of Jalal-ud-din Khalji.  2. During the reign of Ala-ud-din Khalji, one Mongol assault marched up to Delhi and besieged the city.  3. Muhammad-bin-Tughlaq temporarily lost portions of northwest of his kingdom to Mongols.  Which of the statements given above is/are correct?  (a)1 and 2  (b)2 only  (c)1 and 3  (d)3 only	(b)	Medieval Indian History	The first Mongol invasion of India took place in the reign of Sultan Iltutmish. So statement 1 is incorrect. During the reign of Ala-ud-din Khalji, one Mongol assault marched up to Delhi and besieged the city. Statement 2 is correct. The Mongol army was defeated by Muhammad Tughluq. So statement 3 is incorrect.	https://indianinterest.com/history/reveale d-why-genghis-khan-refused-to-invade- india/ https://nios.ac.in/media/documents/SrSec 315NEW/315 History Eng/315 History En g Lesson9.pdf https://www.hansrajcollege.ac.in/hCPanel/ uploads/elearning/elearning document/M ONGOL THREAT.pdf http://www.aees.gov.in/htmldocs/downlo ads/e- content 06 04 20/VII HIS L03 M03 DEL HI SULTANS HANDOUT.pdf
58	With reference to Indian history, who of the following were known as "Kulah-Daran"?  (a)Arab merchants (b)Qalandars (c)Persian calligraphists (d)Sayyids	(d)	Medieval Indian History	The Sayyids were claimed to descent from the Prophet through his daughter Fatima. They Commanded special respect in Muslim society.  Even the Timur protected the life of Sayyids during his invasion in India. Although his policy was one of general slaughter.  The sayyids put on a pointed cap (kulah) and they were known as 'Kulah Daran' during Delhi sultanate.	https://books.google.co.in/books?id=nMW SQuf4oSIC&pg=RA1-PA364&lpg=RA1- PA364&dq=Kulah- Daran&source=bl&ots=iOi8APnYYW&sig=A CfU3U3TU_xn- sl_0J963FNTcCGX_mwFHA&hl=en&sa=X&v ed=2ahUKEwjaqdjYs5n4AhUlgGMGHaNrC9 Y4ChDoAXoECBAQAw#v=onepage&q=Kula h-Daran&f=false



S No	Question	Ans	Subject	Explanation	Source
59	With reference to Indian history, consider the following statements:  1. The Dutch established their factories/warehouses on the east coast on lands granted to them by Gajapati rulers.  2. Alfonso de Albuquerque captured Goa from the Bijapur Sultanate.  3. The English East India Company established a factory at Madras on a plot of land leased from a representative of the Vijayanagara empire.  Which of the statements given above are correct?  (a)1 and 2 only  (b)2 and 3 only  (c)1 and 3 only  (d)1, 2 and 3	(b) 1	Modern Indian History	Gajapati empire had declined in 1541. However, the United East India Company of the Netherlands was formed and given permission by the Dutch government to trade in the East Indies including India in 1602. So statement 1 is incorrect.	https://en.wikipedia.org/wiki/Gajapati Empire https://egyankosh.ac.in/bitstream/123456 789/20251/1/Unit-25.pdf
60	According to Kautiyla's Arthashastra, which of the following are correct?  1.A person could be a slave as a result of a judicial punishment.  2.If a female slave bore her master a son, she was legally free.  3.If a son born to a female slave was fathered by her master, the son was entitled to the legal status of the master's son.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3		Ancient / Medieval Indian History	The Arthashastra states that a man could be a slave either by birth, by voluntarily selling himself, by being captured in war, or as a result of a judicial punishment.  Slavery was a recognized institution and the legal relationship between master and slave was clearly defined e.g. if a female slave bore her master a son, not only was she legally free but the child was entitled to legal status of the master's son.	https://books.google.co.in/books?id=1Y02 AiEu1kcC&pg=PT90&lpg=PT90&dq=Slav ery+was+a+recognized+institution+and+th e+legal+relationship+between+master+and +slave+was+clearly+defined+e.g.+if+a+fe male+slave+bore+her+master+a+son,+not+ only+was+she+legally+free+but+the+child +was+entitled+to+legal+status+of+the+ma ster%E2%80%99s+son.&source=bl&ots=6 XOAmww6MH&sig=ACfU3U2LhDnVvby w- tmiDJCZp0IuKMagjA&hl=en&sa=X&ved =2ahUKEwjHuK70tJn4AhXt1zgGHdkyB6 kQ6AF6BAg0EAM#v=onepage&q=Slaver y%20was%20a%20recognized%20instituti on%20and%20the%20legal%20relationship %20between%20master%20and%20slave% 20was%20clearly%20defined%20e.g.%20if %20a%20female%20slave%20bore%20her %20master%20a%20son%2C%20not%20o nly%20was%20she%20legally%20free%20 but%20the%20child%20was%20entitled% 20to%20legal%20status%20of%20the%20



S No	Question	Ans	Subject	Explanation	<u>Source</u>
61	Consider the following statements:  1. Tight monetary policy of US Federal Reserve could lead to capital flight.  2. Capital flight may increase the interest cost of firms with existing External Commercial Borrowings (ECBs).  3. Devaluation of domestic currency decreases the currency risk associated with ECBs.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3		Economics	Tighter monetary policy by the US and other advanced economies presents dilemmas for policymakers in Emerging Market Economies. If Emerging Market central banks continue the current loose monetary policy with low-interest rates, it will lead to capital outflows	https://thewire.in/economy/the-us-feds-aggressive-monetary-policy-tightening-and-new-headwinds-for-emerging-markets  https://www.ecb.europa.eu/pub/pdf/fsr/art/ecb.fsrart201006en 05.pdf
62	Consider the following States:  1.Andhra Pradesh  2.Kerala  3.Himachal Pradesh  4.Tripura  How many of the above are generally known as tea-producing States?  (a)Only one State (b)Only two States (c)Only three States (d)All four States	(d)	Geography	All the given states are tea producing states.	http://www.teaboard.gov.in/pdf/directory/registered tea factory.pdf
63	Consider the following statements:  1. In India, credit rating agencies are regulated by Reserve Bank of India.  2. The rating agency popularly known as ICRA is a public limited company.  3. Brickwork Ratings is an Indian credit rating agency.  Which of the statements given above are correct?  (a) 1 and 2 only  (b) 2 and 3 only  (c) 1 and 3 only  (d) 1, 2 and 3	(b)	Economics	statement 1 is incorrect. ICRA is a Public Limited Company, with its shares listed on the Bombay Stock Exchange and the National Stock Exchange. So statement 2 is correct.  Brickwork Ratings founded by bankers, credit rating professionals, former regulators as well as professors, is committed to promoting Financial Literacy. Brickwork Ratings has Canara Bank, a leading Public Sector Bank, as its promoter and strategic partner. So statement 3 is correct.	https://www.sebi.gov.in/sebi_data/faqfiles /oct-2021/1634902664371.pdf https://www.icra.in/Home/Profile https://www.brickworkratings.com/Aboutu s.aspx#:~:text=Brickwork%20Ratings%20fo unded%20by%20bankers%2C%20credit%2 Orating%20professionals%2C%20former%2 Oregulators%20as%20well%20as%20profes sors%2C%20is%20committed%20to%20pro moting%20Financial%20Literacy.%20Brick work%20Ratings%20has%20Canara%20Ban k%2C%20a%20leading%20Public%20Sector %20Bank%2C%20as%20its%20promoter%2 Oand%20strategic%20partner



S No	Question	Ans	Subject	Explanation	Source
64	With reference to the 'Banks Board Bureau (BBB), which of the following statements are correct?  1. The Governor of RBI is the Chairman of BBB.  2. BBB recommends for the selection of heads for Public Sector Banks.  3. BBB helps the Public Sector Banks in developing strategies and capital raising plans.  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)1, 2 and 3			The Chairman of BBB is appointed by the Central Government. So statement 1 is incorrect. It recommends the selection and appointment of Board of Directors in Mandated Institutions (Whole Time	https://www.financialexpress.com/economy/government-to-soon-clear-banks-board-bureau-recast/2525853/https://banksboardbureau.org.in/bureau-profile/
	With reference to Convertible Bonds, consider pin the following statements:  1. As there is an option to exchange the bond for equity, Convertible Bonds pay a lower rate of interest.  2. The option to convert to equity affords the bondholder a degree of indexation to rising consumer prices.  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	(c)		otherwise identical regular bond, because of its conversion feature. So statement 1 is correct.	https://www.economist.com/finance-and-economics/2021/07/10/why-convertible-bonds-are-the-asset-class-for-the-times https://www.investopedia.com/investing/introduction-convertible-bonds/
	Consider the following:  1. Asian Infrastructure Investment Bank  2. Missile Technology Control Regime  3. Shanghai Cooperation Organisation India is a member of which of the above?  (a)1 and 2 only (b)3 only (c)2 and 3 only (d)1, 2 and 3	(d)	Current Affairs		https://www.aiib.org/en/about- aiib/governance/members-of- bank/index.html https://mtcr.info/partners/ http://eng.sectsco.org/about_sco/



S No	Question	Ans	Subject	Explanation	<u>Source</u>
67	Consider the following statements:  1. Vietnam has been one of the fastest growing economies in the world in the recent years.  2. Vietnam is led by a multi-party-political system.  3. Vietnam's economic growth is linked to its integration with global supply chains and focus on exports.  4. For a long time, Vietnam's low labour costs and stable exchange rates have attracted global manufacturers.  5. Vietnam has the most productive e-service sector in the Indo-Pacific region.  Which of the statements given above are correct?  (a)2 and 4  (b)3 and 5  (c)1, 3 and 4  (d)1 and 2	(c)	Current Affairs	According to a forecast by PricewaterhouseCoopers in February 2017, Vietnam may be the fastest-growing of the world's economies, with a potential annual GDP growth rate of about 5.1%, which would make its economy the 10th-largest in the world by 2050. So statement 1 is correct.  Vietnam is a Marxist–Leninist one-party state based on democratic centralism. So statement 2 is incorrect.	https://www.theguardian.com/world/2016 /jan/28/vietnam-nguyen-phu-trong-one- party-rule-leader  https://www.hqts.com/who-we- are/quality-control-company-vietnam/
68	In India, which one of the following is responsible for maintaining price stability by controlling inflation?  (a)Department of Consumer Affairs  (b)Expenditure Management Commission  (c)Financial Stability and Development Council  (d)Reserve Bank of India	(d)	Economics	The Reserve Bank of India (RBI) is vested with the responsibility of conducting monetary policy. The primary objective of monetary policy is to maintain price stability while keeping in mind the objective of growth.	https://www.rbi.org.in/scripts/FS_Overview _aspx?fn=2752
69	With reference to Non-Fungible Tokens (NFTs), consider the following statements:  1. They enable the digital representation of physical assets.  2. They are unique cryptographic tokens that exist on a blockchain.  3. They can be traded or exchanged at equivalency and therefore can be used as a medium of commercial transactions.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only 1 (d)1, 2 and 3	(d)		Non-fungible tokens can digitally represent any asset, including online-only assets like digital artwork and real assets such as real estate. So statement 1 is correct.  NFTs are unique cryptographic tokens that exist on a blockchain and cannot be replicated. So statement 2 is correct.  NFT differs from fungible tokens that are identical and could be used as a medium or currency for commercial transactions. So statement 3 is correct.	https://www.investopedia.com/non-fungible-tokens-nft-5115211 https://www.emizentech.com/blog/nft-non-fungible-tokens.html https://economictimes.indiatimes.com/news/international/us/what-is-an-nft-how-does-it-work/articleshow/91623986.cms



S No	Question	Ans	Subject	Explanation	Source
70			Geography	-	
71	In India, which one of the following compiles information on industrial disputes, closures, entrenchments and lay-offs in factories employing worker?  (a)Central Statistics Office (b)Department for Promotion of Industry and Internal Trade (c)Labour Bureau (d)National Technical Manpower Information System	(c)	Economics	Labour bureau compiles information on industrial disputes, closures, entrenchments and lay-offs in factories employing workers.	http://www.labourbureaunew.gov.in/User Content/ID Review 2014.pdf?pr id=FfR6m n4XUVE%3D
72	In India, what is the role of the Coal Controller's Organization (CCO)?  1.CCO is the major source of Coal Statistics in Government of India.  2.It monitors progress of development of Captive Coal/Lignite blocks.  3.It hears any objection to the Government's notification relating to acquisition of coal-bearing areas.  4.It ensures that coal mining companies deliver the coal to end users in the prescribed time.  Select the correct answer using the code given below:  (a)1, 2 and 3  (b)3 and 4 only  (c)1 and 2 only  (d)1, 2 and 4		Polity		https://coal.gov.in/sites/default/files/2019-11/nchap2.pdf



S No	Question	Ans	Subject	Explanation	<u>Source</u>
73	If a particular area is brought under the Fifth Schedule of the Constitution of India, which one of the following statements best reflects the consequence of it?  (a) This would prevent the transfer of land of tribal people to non-tribal people.  (b) This would create a local self-governing body in that area.  (c) This would convert that area into a Union Territory.  (d) The State having such areas would be declared a Special Category State.	(a)	Polity	If a particular area is brought under the Fifth Schedule of the Constitution of India, it would prohibit or restrict the transfer of land by or among members of the Scheduled Tribes in such area.	
74	Consider the following statements:  1. The India Sanitation Coalition is a platform to promote sustainable sanitation and is funded by the Government of India and the World Health Organization.  2. The National Institute of Urban Affairs is an apex body of the Ministry of Housing and Urban Affairs 'in Government of India and provides innovative solutions to address the challenges of Urban 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	(b)	Schemes	at Federation of Indian Chamber Commerce and Industry (FICCI), enables and supports safe and	https://www.indiasanitationcoalition.org/who-we-are.html https://at2030.org/national-institute-of-urban-affairs-(niua)/
75	Which one of the following has been constituted under the Environment (Protection) Act, 1986?  (a)Central Water Commission (b)Central Ground Water Board (c)Central Ground Water Authority (d)National Water Development Agency	(c)	Environmen t & Ecology	l	http://cgwb.gov.in/aboutcgwb.html#:~:text =Central%20Ground%20Water%20Authorit y%20(CGWA)%20was%20constituted%20u nder%20sub%2D,and%20management%20i n%20the%20country.



S No	Question	Ans Subject	Explanation	Source
76	With reference to the "United Nations Credentials Committee", consider the following statements:  1.It is a committee set up by the UN Security Council and works under its supervision.  2.It traditionally meets in March, June and September every year.  3.It assesses the credentials of all UN members before submitting a report to the General Assembly for approval.  Which of the statements given above is/are correct?  (a)3 only (b)1 and 3 (c)2 and 3 (d)1 and 2	(a) Current Affairs	A Credentials Committee consists of nine members, who are appointed by the General Assembly on the proposal of the President. The Committee reports to the Assembly on the credentials of representatives. So statement 1 is incorrect.  It is appointed at the beginning of each regular session of the General Assembly. So statement 2 is incorrect. The Committee is mandated to examine the credentials of representatives of Member States and to report to the General Assembly thereon. So statement 3 is correct.	https://www.un.org/en/ga/credentials/credentials.shtml
	Which one of the following statements best describes the 'Polar Code'?  (a)It is the international code of safety for ships operating in polar waters.  (b)It is the agreement of the countries around the North Pole regarding the demarcation of their territories in the polar region.  (c)It is a set of norms to be followed by the countries whose scientists undertake research studies in the North Pole and South Pole.  (d)It is a trade and security agreement of the member countries of the Arctic Council.	(a) Current Affairs	IMO's International Code for Ships Operating in Polar Waters (Polar Code) covers the full range of design, construction, equipment, operational, training, search and rescue and environmental protection matters relevant to ships operating in the inhospitable waters surrounding the two poles.	https://www.imo.org/en/OurWork/Safety/Pages/polar-code.aspx
	With reference to the United Nations General Assembly, consider the following statements:  1. The UN General Assembly can grant observer status to the non-member States.  2. Inter-governmental organisations can seek observer status in the UN General Assembly.  3. Permanent Observers in the UN General Assembly can maintain missions at the UN headquarters.  Which of the statements given above are correct?  (a)1 and 2 only (b)2 and 3 only (c)1 and 3 only (d)1, 2 and 3	(d) Economics	The United Nations General Assembly may grant Permanent Observer Status to non-member states, international organisations and other entities. So statement 1 is correct.  Observer status is confined to states and intergovernmental organisations whose activities cover matters of interest to the Assembly. So statement 2 is correct.  The Permanent Observers may participate in the sessions and workings of the General Assembly and maintain missions at the U.N. headquarters. So statement 3 is correct.	https://www.thehindu.com/news/national/india-introduces-draft-resolution-in-unga-for-granting-observer-status-for-international-solar-alliance/article37016157.ece



S No	Question	Ans	Subject	Explanation	<u>Source</u>
79			Polity	Tea Board was set up as a statutory body on 1st April,	https://www.teaboard.gov.in/TEABOARDC SM/NA==
80	Which one of the following best describes the term "greenwashing"?  (a)Conveying a false impression that a company's products are ecofriendly and environmentally sound (b)Non-inclusion of ecological/environmental costs in the Annual Financial Statements of a country (c)Ignoring the disastrous ecological consequences while undertaking infrastructure development (d)Making mandatory provisions for environmental costs in a government project/programme		Environmen t & Ecology	Greenwashing is the process of conveying a false impression or providing misleading information about how a company's products are more environmentally sound.	https://www.investopedia.com/terms/g/gree nwashing.asp#:~:text=Greenwashing%20is %20the%20process%20of,company's%20pr oducts%20are%20environmentally%20frie ndly.
81	Consider the following statements:  1. High clouds primarily reflect solar radiation and cool the surface of the Earth.  2. Low clouds have a high absorption of infrared radiation emanating from the Earth's surface and thus cause warming effect. 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	(d)	Geography	High clouds are often thin and do not reflect very much. They let lots of the Sun's warmth in. So statement 1 is incorrect.  Low clouds are often quite thick and reflect lots of sunlight back to space. Low clouds are excellent reflectors. But, they don't stop the longwave energy from escaping to space. Therefore, low clouds help to cool the Earth. So statement 2 is incorrect.	ts/5- 8/features/F The Role of Clouds.html



SI	No Question	Ans	Subject	Explanation	Source
82	Consider the following statements:  1.Bidibidi is a large refugee settlement in north-western Kenya.  2.Some people who fled from South Sudan civil war live in Bidibidi.  3.Some people who fled from civil war in Somalia live in Dadaab refugee complex in Kenya.  Which of the statements given above is/are correct?  (a)1 and 2  (b)2 only  (c)2 and 3  (d)3 only	(c)	Current Affairs	Bidibidi Refugee Settlement is a refugee camp in northwestern Uganda. So statement 1 is incorrect. People who fled from South Sudan civil war live in Bidibidi. So statement 2 is correct.  The Dadaab refugee complex in Kenya was established in 1991, when refugees fleeing the civil war in Somalia started to cross the border into Kenya. So statement 3 is correct.	https://www.npr.org/sections/parallels/2017/04/05/521639724/as-thousands-flee-south-sudan-ugandan-refugee-camp-becomes-worlds-largest  https://www.unhcr.org/ke/dadaab-refugee-complex
83	Consider the following countries 1.Armenia 2.Azerbaijan 3.Croatia 4.Romania 5.Uzbekistan Which of the above are members of the Organization of Turkic States? (a)1, 2 and 4 (b)1 and 3 (c)2 and 5 (d)3, 4 and 5	(c)	Current Affairs	The Organization of Turkic States is an international organization comprising prominent independent Turkic countries: Azerbaijan, Kazakhstan, Kyrgyzstan, Turkey and Uzbekistan.	https://www.turkkon.org/en/uye-ulkeler



S No	Question	Ans	Subject	Explanation	<u>Source</u>
	Consider the following statements	(b)	Current	Bhadla Solar Park is the world's largest solar park	https://www.thehindu.com/sci-
	1.Gujarat has the largest solar park in India.		Affairs	located in Jodhpur district, Rajasthan, So statement 1 is	tech/energy-and-environment/worlds-
	2.Kerala has a fully solar powered International Airport.			incorrect.	largest-solar-park-in-bhadla-
	3.Goa has the largest floating solar photovoltaic project in India.				india/article37462665.ece
	Which of the statements given below is/are correct?			Kerala's Cochin International Airport Ltd (CIAL) is the	https://livemint.com/news/india/anand-
	(a)1 and 2			first airport in the world that would be running fully on	mahindra-posts-pictures-of-kochi-airport-
	(b)2 only			solar power. So statement 2 is correct.	first-in-the-world-to-be-fully-solar-powered-
	(c)1 and 3				<u>11638760041722.html</u>
	(d)3 only			India's largest floating solar power plant commissioned	
				in Andhra Pradesh. So statement 3 is incorrect.	https://www.livemint.com/industry/energy
					/indias-largest-floating-solar-power-plant-
					commissioned-in-andhra-pradesh-
					11631774123853.html#:~:text=India's%20I
					argest%20floating%20solar%20power%20p
					lant%20commissioned%20in%20Andhra%2
					<u>OPradesh,-</u>
					India's%20largest%20floating&text=Bharat
					%20Heavy%20Electricals%20Limited%20(B
					HEL,an%20area%20of%20100%20acres.
85	With reference to the United Nations Convention on the Law of	(d)	Environmen t & Ecology	All the three statements are correct.	https://www.un.org/depts/los/convention_a
	Sea, consider the following statements:		t & Ecology		greements/texts/unclos/part2.htm
	1.A coastal state has the right to establish the breadth of its				
	territorial sea up to a limit not exceeding 12 nautical miles,				https://www.un.org/depts/los/convention_a
	measured from baseline determined in accordance with the				greements/texts/unclos/part5.htm#:~:text=T
	convention.				he%20exclusive%20economic%20zone%2
	2. Ships of all states, whether coastal or land-locked, enjoy the				0shall%20not%20extend%20beyond%2020
	right of innocent passage through the territorial sea.				0%C2%A0nautical%20miles%20from%20t
	3. The Exclusive Economic Zone shall not extend beyond 200 nautical miles from the baseline from which the breadth of the				he%20baselines%20from%20which%20the
					%20breadth%20of%20the%20territorial%2
	territorial sea in measure.  Which of the statements given above are correct?				<u>0sea%20is%20measured.</u>
	Which of the statements given above are correct?  (a)1 and 2 only				
	(b)2 and 3 only				
	(c)1 and 3 only				
	(d)1, 2 and 3				
	(a)1, 2 and 3				



SNo	Question	Ans	Subject	Explanation	Source Source
86	Which one of the following statements best reflects the issue which Senkaku Islands, sometimes mentioned in the news?  (a)It is generally believed that they are artificial islands made by a country around South China Sea.  (b)China and Japan engage in maritime disputes over these islands in East China Sea  (c)A permanent American military base has been set up there to help Taiwan to increase its defence capabilities.  (d)Through International Courts of Justice declared them as no man's land, some South-East Asian countries claim them.	(b)			https://www.business-standard.com/article/international/more-chinese-ships-tried-to-enter-japan-s-territorial-waters-in-2021-122010300250 1.html
87	Country Important reason for being in the news recently 1. Chad- Setting up of permanent military base by China 2. Guinea- Suspension of Constitution and Government by military 3. Lebanon- Severe and prolonged economic depression 4. Tunisia- Suspension of Parliament by President How many pairs given above are correctly matched? (a)Only one pair (b)Only two pairs (c)Only three pairs (d)All four Pairs	(c)	Current Affairs		Pair 1 - https://www.wsj.com/articles/china-seeks-first-military-base-on-africas-atlantic-coast-u-s-intelligence-finds-11638726327  Pair 2 - https://www.thehindu.com/news/international/soldiers-declare-military-junta-in-control-in-burkina-faso/article38322575.ece  Pair 3 - https://www.europarl.europa.eu/thinktank/en/document/EPRS_BRI(2022)729369  Pair 4 - https://indianexpress.com/article/explained/explained-why-did-the-tunisian-president-suspend-the-prime-minister-and-dissolve-parliament-7438977/



SNo	Question	Ans	Subject	Explanation	<u>Source</u>
88	Consider the following pairs:  Region often mentioned, in the news Country  1. Anatolia – Turkey  2. Amhara – Ethiopia  3. Cabo Delgado – Spain  4. Catalonia – Italy  How many pairs given above are correctly matched?  (a)Only one pair  (b)Only two pairs  (c)Only three pairs  (d)All four pairs	(b) (	Current Affairs	Anatolia - Turkey. So Pair 1 is correct Amhara - Ethiopia. So Pair 2 is correct Cabo Delgado - Mozambique. So Pair 3 is incorrect Catalonia - Spain. So Pair 4 is incorrect	https://indianexpress.com/article/technology/science/digging-deep-genetics-gives-a-closer-look-into-the-origins-of-the-worlds-first-farmers-7938926/
89	With reference to Indian laws about wildlife protection, consider the following statements:  1. Wild animals are the sole property of the government.  2. When a wild animal is declared protected, such animal is entitled for equal protection whether it is found in protected areas or outside.  3. Apprehension of a protected wild animal becoming a danger to human life is sufficient ground for its capture or killing. Which of the statements given above is/are correct?  (a)1 and 2  (b)2 only  (c)1 and 3  (d)3 only	<b>(b)</b> Et	& Ecology	As per the law, wild animals are not the property of the government, and an animal which is wild in nature and free cannot be in the ownership of either the government or a private party. So statement 1 is incorrect.  The Wildlife (Protection) Act, 1972, does not discriminate between animals found in protected areas and outside. It provides for equal protection for wild animals irrespective of where they are found. So statement 2 is correct.  Only if the wild animal becomes a danger to human life or is diseased or disabled beyond recovery can it be allowed to be captured or killed by the competent authority, the Chief Wildlife Warden of the State. Mere apprehension or fear that a wild animal could endanger human life is not a ground for capture or killing. So statement 3 is incorrect.	https://www.thehindu.com/opinion/op-ed/Leopards-in-a-spot/article16913392.ece
90	Certain species of which one of the following organisms are well known as cultivators of fungi?  (a)Ant (b)Cockroach (c)Crab (d)Spider	(a) E	& Ecology		https://www.semanticscholar.org/paper/The-Origin-of-the-Attine-Ant-Fungus-Mutualism-Mueller-Schultz/017c3924b909bc5c8f580aa58d0a03eea1d554ba



S No	Question	Ans	Subject	Explanation	<u>Source</u>
91	Consider the following pairs: Site of Ashoka's major rock edictsLocated in the State of  1. Dhauli – Odisha  2. Erragudi – Andhra Pradesh  3. Jaugada – Madhya Pradesh  4. Kalsi– Karnataka  How many pairs given above are correctly matched?  (a)Only one pair  (b)Only two pairs  (c)Only three pairs  (d)All four pairs		History	<ol> <li>Dhauli – Odisha</li> <li>Erragudi – Andhra Pradesh</li> <li>Jaugada – Odisha</li> <li>Kalsi– Uttarakhand</li> <li>Pairs 1 &amp; 2 are correctly matched.</li> </ol>	https://en.wikipedia.org/wiki/List of Edicts of Ashoka
92	Consider the following pairs:  King Dynasty  1. Nannuka – Chandela  2. Jayashakti – Paramara  3. Nagabhata II – Gurjara-Pratihara  4. Bhoja – Rashtrakuta  How many pairs given above are correctly matched?  (a)Only one pair  (b)Only two pairs  (c)Only three pairs  (d)All four pairs		Ancient / Medieval Indian History	<ol> <li>Nannuka – Chandela</li> <li>Jayashakti – Chandela</li> <li>Nagabhata II – Gurjara-Pratihara</li> <li>Bhoja – Paramara</li> <li>Pairs 1, 3 are correctly matched.</li> </ol>	https://www.jstor.org/stable/44303948 https://en.wikipedia.org/wiki/Jayashakti https://en.wikipedia.org/wiki/Bhoja https://en.wikipedia.org/wiki/Nagabhata II
93	Which one of the following statements about Sangam literature in ancient South India is correct?  (a)Sangam poems are devoid of any reference to material culture.  (b)The social classification of Varna was known to Sangam poets.  (c)Sangam poems have no references to warrior ethic.  (d)Sangam literature refers to magical forces as irrational.		Ancient / Medieval Indian History	Caste divisions existed in ancient Tamil Nadu like other parts of India. Tamils were divided on the basis of four castes and on the basis of work they did. There were references about 'high born' and 'low born' in the Sangam Tamil Literature.	https://tamilandvedas.com/2014/07/04/ca ste-divisions-in-ancient-tamil-nadu/
94	"Yogavasistha" was translated into Persian by Nizamuddin Panipati during the reign of: (a)Akbar (b)Humayun (c)Shahjahan (d)Aurangzeb		Ancient / Medieval Indian History		



S No	Question	Ans	Subject	Explanation	<u>Source</u>
95	The world's second tallest statue in sitting pose of Ramanuja was inaugurated by the Prime Minister of India at Hyderabad recently. Which one of the following statements correctly represents the, teachings of Ramanuja?  (a) The best means of salvation was devotion.  (b) Vedas are eternal, self-existent and wholly authoritative.  (c) Logical arguments were essential means for the highest bliss.  (d) Salvation was to be obtained through meditation.	(a)	Current Affairs	Ramanuja was deeply influenced by the Alvars. According to him the best means of attaining salvation was devotion.	http://www.aees.gov.in/htmldocs/downlo ads/Econtent aug2020/VII HIS L08 M01 DEVOTIONAL PATHS TO DIVINE PPT.pptx
96	The Prime Minister recently inaugurated the new Circuit House near Somnath Temple at Veraval. Which of the following statements are correct regarding Somnath Temple?  1. Somnath Temple is one of the Jyotirlinga shrines.  2. A description of Somnath Temple was given by Al-Biruni.  3. Pran Pratishtha of Somnath Temple (installation of the present day temple) was done by President S. Radhakrishnan.  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)1, 2 and 3	(a)	Current Affairs	The large, black Shiva lingam at the heart of Somnath Temple is one of the 12 most sacred Shiva shrines, known as jyotirlinga. So statement 1 is correct.  A description of the temple by Al-Biruni, an Arab traveller. So statement 2 is correct.  Pran Pratishtha of Somnath Temple (installation of the present day temple) was done by Rajendra Prasad. So statement 3 is incorrect.	https://www.gujarattourism.com/saurashtra/gir-somnath/somnath-temple.html https://www.deshgujarat.com/2015/04/23/6 4th-anniversary-of-pran-pratishtha-marked-at-shri-somnath-mandir/#:~:text=Rajendra%20Prasad%20had%20performed%20Pran,by%20Islamic%20rulers%20centuries%20back.
97	Which one of the following statements best describes the role of B cells and T cells in the human body?  (a) They protect the body from environmental allergens.  (b) They alleviate the body's pain and inflammation.  (c) They act as immunosuppressants in the body.  (d) They protect the body from the diseases caused by pathogens.	(d)	Sci & Tech	T cells can wipe out infected or cancerous cells. They also direct the immune response by helping B lymphocytes to eliminate invading pathogens.	https://www.mdanderson.org/cancerwise/t-cellsb-cells-and-the-immune-system.h00-159465579.html#:~:text=T%20cells%20can%20wipe%20out,of%20protein%20called%20an%20antibody.



S No	Question	Ans	Subject	Explanation	Source
98	Consider the following statements:  1. Other than those made by humans, nanoparticles do not exist in nature.  2. Nanoparticles of some metallic oxides are used in the manufacture of some cosmetics.  3. Nanoparticles of some commercial products which enter the environment are unsafe for humans.  Which of the statements given above is/are correct?  (a)1 only (b)3 only (c)1 and 2 (d)2 and 3			Naturally occurring nanoparticles can be found in volcanic ash, ocean spray, fine sand and dust, and even biological matter (e.g. viruses). So statement 1 is incorrect.  Many cosmetic products used in our daily life are made with the assistance of nanotechnologies. So statement 2 is correct.  Nanoparticles of some commercial products which enter the environment are unsafe for humans. Statement 3 is correct.	https://sustainable- nano.com/2013/03/25/nanoparticles-are- all-around- us/#:~:text=Naturally%20occurring%20nan oparticles%20can%20be%20found%20in%2 0volcanic%20ash%2C%20ocean%20spray% 2C%20fine%20sand%20and%20dust%2C%2
99	Consider the following statements:  DNA Barcoding can be a tool to:  1.assess the age of a plant or animal.  2.distinguish among species that look alike.  3.identify undesirable animal or plant materials in processed foods.  Which of the statements given above is/are correct?  (a)1 only (b)3 only (c)1 and 2 (d)2 and 3	(d)		To measure the age of plant and animal remains from the more recent past, scientists use a radioactive isotope of carbon, called carbon-14, as their clock. So statement 1 is incorrect.  DNA Barcoding can be a tool to distinguish among species that look alike & identify undesirable animal or plant materials in processed foods  So statements 2 and 3 are correct.	https://www.researchgate.net/publication/2 25121359_DNA_barcoding_A_tool_for_im proved_taxon_identification_and_detection of_species_diversity https://pubmed.ncbi.nlm.nih.gov/33530758/
100	Consider the following 1. Carbon monoxide 2. Nitrogen oxide 3. Ozone 4. Sulphur dioxide Excess of which of the above in the environment is/are cause(s) of acid rain? (a)1, 2 and 3 (b)2 and 4 only (c)4 only (d)1, 3 and 4	(b)	Environmen t & Ecology	Acid Rain Rain contains dissolved carbon dioxide (CO2). Sulpher dioxide (SO2) and Nitrogen oxides (NOx) which are normally present in the air. So options 2,4 are correct.	https://hspcb.gov.in/content/ecoclub/Acid Rain.pdf

