



"The significant problems we face can not be solved at the same level of thinking we were at when we created them." - Albert Einstein

ANALYSIS / APPROACH / SOURCE / STRATEGY: GENERAL STUDIES PRE 2013 PAPER

- TEAM VISION IAS

Q. No.	Questions	Section	Ans.	Level	Nature	Source	Source Type	Explanation	Motivation/ Observation
1	Consider the following statements- The Parliamentary Committee on Public Accounts. 1. Consists of not more than 25 Members of the Lok Sabha. 2. Scrutinizes appropriation and finance accounts of the Government. 3. Examines the report of the Comptroller and Auditor General of India. Which of the statements given above is/are correct? (a) 1 only (b) 2 and 3 only (c) 3 only (d) 1, 2 and 3	Polity	B	E	F	Laxmikanth page 22.34	EM	Statement 1 is wrong as it consists of 22 members (15 from Lok Sabha and 7 from Rajya Sabha)	PAC has been in a lot of news for various CAG reports including 2G, coal report etc.
2	Consider the following Bhakti Saints: 1. Dadu Dayal 2. Guru Nanak 3. Tyagaraja Who among the above was/were preaching when the Lodi dynasty fell and Babur took over? (a) 1 and 3 (b) 2 only (c) 2 and 3 (d) 1 and 2	Art/ Culture	B	D	F	NCERT ancient and Medieval India	EM	Guru Nanak (1469 – 1539) Dadu Dayal (1544–1603) Kakarla Tyagabrahmam (1767 – 1847) Lodi dynasty fell and Babur took over: 1526	
3	With reference to the food chains in ecosystems, which of the following kinds of organism is/are known as decomposer organism/organisms? 1. Virus 2. Fungi 3. Bacteria Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Environment	B	D	F	12th NCERT: UNIT-NINE: ECOLOGY AND ENVIRONMENT Page 312	EM	Most viruses need a living host organism-they are more like a parasite. Viruses reproduce by sticking their DNA into living cells and their DNA "takes over" the living cell and uses the living cells' tools to replicate the virus' DNA and make more viruses. Bacteria that are used in decomposition need the dead animals' flesh for food.	
4	The most important fishing grounds of the world are found in the regions where (a) Warm and cold atmospheric currents meet	Geography	C	E	F	Old NCERT Class VII Part II page 36	EM	Planktons are abundant where warm and cold currents meet. That make these areas important fishing grounds of the world.	

	(b) Rivers drain out large amounts of freshwater into the sea (c) Warm and cold oceanic currents meet (d) Continental shelf is undulating							
5	Which of the following is/are unique characteristic/characteristics of equatorial forests? 1. Presence of tall, closely set trees with crowns forming a continuous canopy 2. Coexistence of a large number of species 3. Presence of numerous varieties of epiphytes Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Geography	D	M	F	NCERT: 12th Geography 12th NCERT: UNIT-NINE: ECOLOGY AND ENVIRONMENT Page 273	EM	
6	Which of the following constitute Capital Account? 1. Foreign Loans 2. Foreign Direct Investment 3. Private Remittances 4. Portfolio Investment Select the correct answer using the codes given below: (a) 1, 2 and 3 (b) 1, 2 and 4 (c) 2, 3 and 4 (d) 1, 3 and 4	Economy	B	M	F	NCERT Macro Economics Page 77 Economic Survey	EM	Private Remittances forms a part of current account and not capital account
7	Consider the following historical places: 1. Ajanta Caves 2. Lepakshi Temple 3. Sanchi Stupa Which of the above places is/are also known for mural paintings? (a) 1 only (b) 1 and 2 only (c) 1, 2 and 3 (d) None	Art/ Culture	B	D	F	NIOS art and Culture Page 155	RM	The Lepakshi temple has the finest specimens of mural paintings of the Vijayanagar kings. In News: http://www.thehindu.com/features/metroplus/travel/the-hanging-pillar-and-other-wonders-of-lepakshi/article2836929.ece
8	With reference to the history of philosophical thought in India, consider the following statements regarding Sankhya school: 1. Sankhya does not accept the theory of rebirth or transmigration of soul. 2. Sankhya holds that it is the self-knowledge that leads to liberation and not any exterior influence or agent. 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	Art/ culture	B	D	F	NIOS art and Culture 114 http://comethinkwithme.wordpress.com/2012/02/29/consciousness-samkhya-theory-or-buddhism-part-2-2/	RM	Samkhya is an Orthodox Indian philosophical system. Orthodox Indian philosophical system believes in soul and karma theory. For Karma theory to hold, soul has to undergo rebirth or transmigration. Therefore, without liberation no soul can be free from the cycle of rebirth or transmigration. Samkhya school philosophy- after you have 'died' in this life you will go through a process of rebirth where depending on your actions in your former life your status will be decided.
9	In the context of India, which of the following principles is/are, implied institutionally in the parliamentary	Polity	A	M	F	Laxmikanth page 3.3	EM	statement 3 is wrong as Cabinet is headed by Head of Government (i.e. Prime Minister) and not by Head of

	government? 1. Members of the Cabinet are Members of the Parliament. 2. Ministers hold the office till they enjoy confidence in the Parliament. 3. Cabinet is headed by the Head of the State. Select (a) 1 and 2 only (b) 3 only (c) 2 and 3 only (d) 1, 2 and 3						State (i.e. President)		
10	The annual range of temperature in the interior of the continents is high as compared to coastal areas. What is/are the reason/reasons? 1. Thermal difference between land and water 2. Variation in altitude between continents and oceans 3. Presence of strong winds in the interior 4. Heavy rains in the interior as compared to coasts Select the correct answer using the codes given below: (a) 1 only (b) 1 and 2 only (c) 2 and 3 only (d) 1, 2, 3 and 4	Geography	A	D	F	INDIA : PHYSICAL ENVIRONMENT page 34	EM	Land heats up and cool down very fast as compared to the water. Areas in the interior of India are far away from the moderating influence of the sea. Such areas have extremes of climate. Statement 2 is wrong as there may or may not be much difference between the altitudes of land and ocean. Statment 3 is wrong as winds do not contribute enough to the variations in temperature. Statement 4 is wrong as coastal region recieve more rainfall.	
11	Which of the following is/are the characteristic/characteristics of Indian coal? 1. High ash content 2. Low sulphur content 3. Low ash fusion temperature Select the correct answer using the codes given below: (a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3	Geography	A	D	FCA	http://www.hindu.com/fline/fl2522/stories/20081107252205000.htm	RM	THE most significant characteristic of Indian coal is its high ash content, which varies from 35 to 45 per cent, compared with that of coal in other parts of the world, which is around 15 per cent. Besides high ash content, another reason for entrained gasifiers (that operate at higher temperatures than fluidised bed gasifiers), commonly used in IGCC plants abroad, being not suitable for Indian coal is its high ash fusion temperature of about 1,500. However, Indian coal’s sulphur content is low, about 0.5 per cent.	Coal in news: Coal Scam Also, one of the major factors for widening CAD as large quantities of coal are being imported
12	Which of the following statements regarding laterite soils of India are correct? 1. They are generally red in colour. 2. They are rich in nitrogen and potash. 3. They are well-developed in Rajasthan and UP. 4. Tapioca and cashew nuts grow well on these soils. Select the correct answer using the codes given below: (a) 1, 2 and 3 (b) 2, 3 and 4 (c) 1 and 4 (d) 2 and 3 only	Geography	C	E	F	INDIA : PHYSICAL ENVIRONMENT page 71	EM	Statement 2 is wrong as these soils are poor in nitrogen and phosphate. Statement 3 is wrong as laterite is not found in UP or in Rajasthan. Red laterite soils in Tamil Nadu, Andhra Pradesh and Kerala are more suitable for tree crops like cashewnut.	
13	Consider the following statements: 1. Natural gas occurs in the Gondwana beds. 2. Mica occurs in abundance in Kodarma. 3. Dharwars are famous for petroleum.	Geography	B	M	F	India : People and Economy page 80	EM	Natural gas is obtained alongwith oil in all the oil fields but exclusive reserves have been located along the eastern coast as well as (Tamil Nadu, Orissa and Andhra Pradesh), Tripura, Rajasthan and off-shore wells in Gujarat and Maharashtra.	

	Which of the statements given above is/are correct? (a) 1 and 2 (b) 2 only (c) 2 and 3 (d) None						Crude petroleum occurs in sedimentary rocks of the tertiary period.	
14	Consider the following crops: 1. Cotton 2. Groundnut 3. Rice 4. Wheat Which of these are Kharif crops? (a) 1 and 4 (b) 2 and 3 only (c) 1, 2 and 3 (d) 2, 3 and 4	Geography	C	E	F	India : People and Economy page 44	EM	
15	"Climate is extreme, rainfall is scanty and the people used to be nomadic herders." The above statement best describes which of the following regions? (a) African Savannah (b) Central Asian Steppe (c) North American Prairie (d) Siberian Tundra	Geography	B	D	F	GC Leong page 148-49	RM	Steppe's climate is continental with extremes of temp. Nomadic tribes like Kirghiz are found. Rainfall is expected to be light. African Savannah gets moderate rainfall.
16	Consider the following statements: 1. Inflation benefits the debtors. 2. Inflation benefits the bond-holders. 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	Economy	A	M	FCA	Economic Survey	EM	For debtors, "real" interest rate goes down with inflation. Thus it benefits them On the other hand, with inflation the yield of bonds goes down, thus a negative effect for bond-holders
17	Disguised unemployment generally means (a) Large number of people remain unemployed (b) Alternative employment is not available (c) Marginal productivity of labour is zero (d) Productivity of workers is low	Economy	C	M	F	NCERT class 11th Economy	EM	Disguised unemployment, means that more people are engaged in a job which can be done with less people, normally seen in agriculture where whole family is involved. It means extra people can be removed without affecting the productivity, i.e. their marginal productivity is zero.
18	Consider the following statements: 1. The Council of Ministers in the Centre shall be collectively responsible to the Parliament. 2. The Union Ministers shall hold the office during the pleasure of the President of India. 3. The Prime Minister shall communicate to the President about the proposals for legislation. Which of the statements given above is/are correct? (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Polity	B	M	F	Laxmikanth page 20.4	EM	statement 2 is from article 75 statement 3 is from article 78 statement 1 is from article 75 - where it is collectively responsible to the "House of People" (Lok Sabha). Parliament means both Rajya Sabha and Lok Sabha. So answer should be (b)
19	Consider the following statements: 1. National Development Council is an organ of the Planning Commission. 2. The Economic and Social Planning is kept in the Concurrent List in the Constitution of	Polity	B	M	F	Statement 1 - Laxmikanth page 45.1 Statement 2 - Laxmikanth page AII.4 Statement 3 -	EM	NDC is listed as an advisory body to Planning commission. Moreover the plans made by Planning commission are placed before NDC for its acceptance. So statement 1 is wrong.

	<p>India.</p> <p>3. The Constitution of India prescribes that Panchayats should be assigned the task of preparation of plans for economic development and social justice.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>					Laxmikanth page 30.10			
20	<p>Consider the following statements:</p> <p>1. The Chairman and the Deputy Chairman of the Rajya Sabha are not the members of that House.</p> <p>2. While the nominated members of the two Houses of the Parliament have no voting right in the presidential election, they have the right to vote in the election of the Vice President.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	Polity	B	D	F	<p>Statement 1 - Laxmikanth page 22.11</p> <p>Statement 2 - Laxmikanth page 19.1</p>	EM	<p>Deputy Chairman of Rajya Sabha is elected by Rajya Sabha from among its members. So Deputy Chairman is member of that house.</p>	<p>Deputy Chairman P J Kurien in controversy due to Suryanelli Rape case.</p> <p>Also, Hamid Ansari is the 2nd person ever after Dr Radhakrishnan to be elected for Vice President for two consecutive terms</p>
21	<p>With reference to National Legal Services Authority consider the following statements:</p> <p>1. Its objective is to provide free and competent legal services to the weaker section of the society on the basis of equal opportunity.</p> <p>2. It issues guidelines for the State Legal Services Authorities to implement the legal programmes and schemes throughout the country.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	Polity	C	D	FCA	http://nalsa.gov.in/#intro	RM		<p>Current CJI Altamas Kabir was NALSA chairman before being nominated as CJI and now Patron-in-chief as CJI.</p> <p>There was the 11th annual meeting of State Legal Services authority in April</p>
22	<p>During a thunderstorm, the thunder in the skies is produced by the</p> <p>1. Meeting of cumulonimbus clouds in the sky.</p> <p>2. Lightning that separates the nimbus clouds.</p> <p>3. Violent upward movement of air and water particles.</p> <p>Select the correct answer using the codes given below:</p> <p>(a) 1 only (b) 2 and 3 (c) 1 and 3 (d) None of the above produces the thunder</p>	Geography	D	D	F	http://en.wikipedia.org/wiki/Thunder	EM	<p>Thunder is the sound caused by lightning. The sudden increase in pressure and temperature from lightning produces rapid expansion of the air surrounding and within a bolt of lightning. In turn, this expansion of air creates a sonic shock wave, similar to a sonic boom, which produces the sound of thunder. The cause of thunder has been the subject of centuries of speculation and scientific inquiry. The first recorded theory is attributed to the Greek philosopher Aristotle in the third century BC, and an early speculation was that it was caused by the collision of clouds. Subsequently, numerous other theories were proposed. By the mid-19th century, the accepted theory was that lightning produced a vacuum. In the 20th century a consensus evolved that thunder must begin with a shock wave in the air due to the sudden thermal expansion of the plasma in the lightning channel.</p>	

23	<p>Consider the following pairs: Tribe State</p> <ol style="list-style-type: none"> 1. Limboo (Limbu) Sikkim 2. Karbi Himachal Pradesh 3. Dongaria Kondh Odisha 4. Bonda Tamil Nadu <p>Which of the above pairs are correctly matched?</p> <p>(a) 1 and 3 only (b) 2 and 4 only (c) 1, 3 and 4 only (d) 1, 2, 3 and 4</p>	Geography	A	D	FCA	http://en.wikipedia.org/wiki/Karbi_people http://en.wikipedia.org/wiki/Limbu_people http://intercontinentalcry.org/peoples/dongria-kondh/ http://en.wikipedia.org/wiki/Bonda_people	RM		<p>Dongariya Kondh was quite in news in 2010-12.</p> <p>2. Bonda in news Bonda youths migrating in search of jobs, says study The Hindu</p> <p>Despite the fact that Odisha government has been spending huge funds for development of 'Bonda' – a primitive tribe – in Malkangiri district for the past three decades, Bonda youths are now leaving hills in search of jobs in States like Andhra Pradesh and Tamil Nadu.</p>
24	<p>Consider the following liquid assets:</p> <ol style="list-style-type: none"> 1. Demand deposits with the banks 2. Time deposits with the banks 3. Savings deposits with the banks 4. Currency <p>The correct sequence of these assets in the decreasing order of liquidity is</p> <p>(a) 1–4–3–2 (b) 4–3–2–1 (c) 2–3–1–4 (d) 4–1–3–2</p>	Economy	D	M	F	NCERT class 12th Economy	EM	<p>Liquidity of currency is highest. Next will come demand liabilities, as they have to be cleared when demanded. Next savings and least liquidity will be of time deposits</p>	
25	<p>In the context of Indian economy, 'Open Market Operations' refers to</p> <ol style="list-style-type: none"> (a) Borrowing by scheduled banks from the RBI (b) Lending by commercial banks to industry and trade (c) Purchase and sale of government securities by the RBI (d) None of the above 	Economy	C	E	F	NCERT XII Macro Economics Page 44	EM	<p>The repo and reverse repo rates are used when RBI purchase or sale the government securities. This route is known as Open Market Operations</p>	
26	<p>Priority Sector Lending by banks in Indian constitutes the lending to</p> <ol style="list-style-type: none"> (a) Agriculture (b) Micro and small enterprises (c) Weaker sections (d) All of the above 	Economy	D	M	FCA	Economic Survey	RM	<p>Banks have to lend minimum of 40% to priority sector which includes all of the given sectors</p>	<p>Recently issued guidelines by RBI that foreign banks will also have to follow the priority sector lending targets</p>

27	Which one among the following industries is the maximum consumer of water in India? (a) Engineers (b) Paper and pulp (c) Textiles (d) Thermal power	Geography	D	D	FCA	http://articles.economictimes.in/diatimes.com/2012-07-12/news/32648537_1_water-conservation-water-audits-water-usage	RM	Of the total water use by the industry, thermal power plants are the biggest users of water and account for 88% of the total industrial water use. They are followed by engineering (5.05%) pulp & paper (2.26%) and textiles (2.07%) industries.	National Water Policy in draft form. Water efficiency as a main concern in it, including industry use
28	To obtain full benefits of demographic dividend, what should India do? (a) Promoting skill development (b) Introducing more social security schemes (c) Reducing infant mortality rate (d) Privatization of higher education	Economy	A	E	FCA	Economic Survey	EM	b option will not provide any benefit of demographic dividend. Social security schemes can be used for providing security to non-working population like old-age pension etc. c option is one of the Millenium Development Goal, but it does not provide any benefit of demographic dividend d option can infact have negative effect as it will make education costlier thus making it out of reach of a large section of eligible population	New chapter on demographic dividend added in Economic Survey
29	In the context of cultural history of India, a pose in dance and dramatics called 'Tribhanga' has been a favourite of Indian artists from ancient times till today. Which one of the following statements best describes this pose? (a) One leg is bent and the body is slightly but oppositely curved at waist and neck (b) Facial expressions, hand gestures and make-up are combined to symbolize certain epic or historic characters (c) Movements of body, face and hands are used to express oneself or to tell a story (d) A little smile, slightly curved waist and certain hand gestures are emphasized to express the feelings of love or eroticism	Art/ Culture	A	M	U	http://en.wikipedia.org/wiki/Tribhanga	RR	Tribhanga, literally meaning three parts break, consists of three bends in the body; at the neck, waist and knee, hence the body is oppositely curved at waist and neck which gives it a gentle "S" shape	http://www.thehindu.com/features/metroplus/travel/rock-of-eternity/article4340161.ece
30	Annie Besant was 1. Responsible for starting the Home Rule Movement 2. The founder of the Theosophical Society 3. Once the President of the Indian National Congress Select the correct statement/statements using the codes given below. (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Modern History	C	M	F	NCERT-Modern India spectrum modern India p-103, 382	EM	Annie Besant was the 1st women President of INC in 1917 Calcutta Session. Madam Blavatsky and Henry Steel Olcott founded Theosophical Society.	
31	The Ilbert Bill controversy was related to the (a) Imposition of certain restrictions to carry arms by the Indians (b) Imposition of restrictions on newspapers and magazines published in Indian languages (c) Removal of disqualifications imposed on the Indian magistrates with regard to the trial of the Europeans (d) Removal of a duty on imported cotton cloth	Modern History	C	E	F	NCERT-Modern India	EM	In AD 1883, Lord Ripon's law member, Sir Ilbert, introduced a bill which came to be called the Ilbert Bill. It allowed Indian judges to try the cases involving the Europeans.	

32	A rise in general level of prices may be caused by 1. An increase in the money supply 2. A decrease in the aggregate level of output 3. An increase in the effective demand Select the correct answer using the codes given below: (a) 1 only (b) 1 and 2 only (c) 2 and 3 only (d) 1, 2 and 3	Economy	D	E	F	NCERT XII-Macro Economics Page 45	EM	It a direct application based question. 1st statement is correct as increase in money supply will cause inflation. 2nd and 3rd statement are obviously correct as they represent supply and demand side of products	High rate of inflation in the economy for quite some time
33	Which one of the following groups of items is included in India's foreign-exchange reserves? (a) Foreign-currency assets, Special Drawing Rights (SDRs) and loans from foreign countries (b) Foreign-currency assets, gold holdings of the RBI and SDRs (c) Foreign-currency assets, loans from the World Bank and SDRs (d) Foreign-currency assets, gold holdings of the RBI, and loans from the World Bank	Economy	B	E	F	Economic Survey Para 6.24	EM	India's foreign exchange reserves comprise foreign currency assets (FCA), gold, special drawing rights (SDRs) and reserve tranche position (RTP) in the International Monetary Fund (IMF).	Concerns for India's balance of payment and forex reserves as current account deficit has risen to very high levels
34	Which one of the following is likely to be the most inflationary in its effect? (a) Repayment of public debt (b) Borrowing from the public to finance a budget deficit (c) Borrowings from banks to finance a budget deficit (d) Creating new money to finance a budget deficit	Economy	D	M	F	NCERT XII-Macro Economics Page 46(I)	EM	b and c option will lead to a decrease in the money supply in market. Between a and d, d will have more inflationary effect than a, as it will lead to an increase in total money supply in the market.	Once again, high Inflation rate in the economy
35	Supply of money remaining the same when there is an increase in demand for money, there will be (a) a fall in the level of prices (b) an increase in the rate of interest (c) a decrease in the rate of interest (d) an increase in the level of income and employment	Economy	B	E	F	NCERT XII-Macro Economics Page 46(I)	EM	Direct application based question. If the demand increase when the supply is same, it will lead to an increase in prices or in this case rate of interest to be charged.	
36	Fruits stored in a cold chamber exhibit longer storage life because (a) exposure to sunlight is prevented (b) concentration of carbon dioxide in the environment is increased (c) rate of respiration is decreased (d) there is an increase in humidity	Science and Technology	C	M	FA	http://www.vtrstorage.com/services.html	RM	Respiration can be controlled by refrigerated storage.	
37	Consider the following fauna and India: 1. Gharial 2. Leatherback turtle 3. Swamp deer	Environment	C	M	FCA	http://indiasendangered.com/th e-dying-gharials/ http://indiasendangered.com/turtle-nesting-sites-facing-the-	RM	All three are endangered in india and as there is no specific list(IUCN etc.) is given so option C is correct.	

	Which of the above is/are endangered? (a) 1 and 2 only (b) 3 only (c) 1, 2 and 3 (d) None					heat/ http://indiasendangered.com/swamp-deer-numbers-increase/ NCERT: Ecology		
38	Ball bearings are used in bicycles, cars, etc., because (a) the actual area of contact between the wheel and axle is increased (b) the effective area of contact between the wheel and axle is increased (c) the effective area of contact between the wheel and axle is reduced (d) None of the above statements is correct	Science and Technology	C	M	U	http://www.ehow.com/how-does_5032819_ball-bearings-reduce-friction.html	RR	The roundness of the bearings creates less contact between the bearing that is trying to move objects and the object being moved. A reduction in contact area means less friction.
39	Consider the following statements: 1. Size of the sun at dusk 2. Colour of the sun at dawn 3. Moon being visible at dawn 4. Twinkle of stars in the sky 5. Polestar being visible in the sky Which of the above are optical illusions? (a) 1, 2 and 3 (b) 3, 4 and 5 (c) 1, 2 and 4 (d) 2, 3 and 5	Science and Technology	C	M	FA	NCERT Class X: Science chapter 10	EM	Option-1(Size of the sun at dusk) is an optical illusion. When the sun (or moon) is high in the sky there are no objects of known size to compare the sun (or moon) to. But when the sun is low in the sky we can see far off objects near the horizon that we know are big and we imagine that the sun is even bigger. The apparent change in size is an optical illusion. Option-2(Colour of the sun at dawn) is an optical illusion. Light is made up of lots of colors. And out of all those colors, red is the one that travels the farthest. That means is that red is the last color seen, when the sun sets. When the sun is setting, all of those colors are slower-moving, and it is no longer bright outside, because the colors are all moving at a separate pace. The other colors start disappearing, and red (being the fastest), is what is last seen. Option-3(Moon being visible at dawn) is NOT an optical illusion. The moon is visible somewhere in the sky at dawn during the entire half of the cycle of phases from Full Moon to just before New Moon. It is not an optical illusion. Option-4(Twinkle of stars in the sky) is an optical illusion. Stars continuously emit light. These light travels through various layers of earth atmosphere before they reach our eyes. Now refractive index decreases as we move from down through atmosphere. So light keeps on getting bent towards normal at each point of incidence. Practically there are infinite points of incidence as refractive index keeps changing as we move down. This happens in accordance and finally light reaches our eye. So we see the star at B but actual position of star is at A. Further atmospheric conditions keeps on changing. Hence light flux reaching our eyes keeps varying and so star appears bright at some time and it appears fade at other. So starts apparently twinkles but practically they don't. Option-5(Polestar being visible in the sky) is NOT an optical illusion. The sky appears to rotate around points called the celestial poles (one north pole and one south pole). These points represent the directions where the Earth's rotation axis points. Thus, for a fixed observer on Earth, a celestial pole would always be in the same

							direction (due north or due south, depending where we are), and its altitude over the horizon would be equal to our latitude. Polaris is not exactly at the celestial pole; it is less than one degree from it (so that it is hard to tell the difference without measuring) making it a good indicator for the pole -- that is why it is called the Pole Star.	
40	Rainbow is produced when sunlight falls on drops of rain. Which of the following physical phenomena are responsible for this? 1. Dispersion 2. Refraction 3. Internal reflection Select the correct answer using the codes given below: (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Science and Technology	D	M	F	NCERT Class X: Science Page 194	EM Option:-1 Each individual droplet of water acts as a tiny prism that both disperses the light and reflects it back to our eye. Option:-2 Since water is more dense than air, light is refracted as it enters the drop. Option:-3 Some of the light will reflect off the back of the drop if the angle is larger than the critical angle (48° for water).	
41	Many transplanted seedlings do not grow because (a) the new soil does not contain favourable minerals (b) most of the root hairs grip the new soil too hard (c) most of the root hairs are lost during transplantation (d) leaves get damaged during transplantation	Science and Technology	C	M	U	http://www.northscaping.com/IZArticles/TS-0011	RR Newly transplanted trees or shrubs experience some degree of transplant shock. This is simply the plant reacting to having been moved. It is generally caused by damage to the roots of the plant during the transplant. While the thickest roots are nearest to the root ball, the most important roots, those that actually "do the work", are located the farthest away from the plant. These tiny roots are covered by even tinier hairs which absorb most of the water that is eventually carried to the top-growth of the plant. During a transplant, these fine roots are usually destroyed either by being cut to keep the root ball size down, by drying out (some accounts say it only takes 3-4 minutes of exposure to air for these to die), or simply by being jarred and jostled around in the move. As a result of the loss of these feeder roots, the plant is not able to draw the amount of moisture it requires to thrive and grow. The resulting imbalance between the moisture demands of the top-growth and the reduced ability of the roots to meet those demands manifests as transplant shock.	
42	Economic growth in country X will necessarily have to occur it (a) there is technical progress in the world economy (b) there is population growth in X (c) there is capital formation in X (d) the volume of trade grows in the world economy	Economy	C	M	FA	Economic Survey	EM a and d statement does not say anything about the country X, only the general world economy. In b, if there is population growth without any avenues for the economy to absorb them, it will have a deteriorating effect. c is the most appropriate option, as whenever there is capital formation in country it will lead to growth	
43	Which of the following statements is/are correct? 1. Viruses lack enzymes necessary for the generation of energy 2. Viruses can be cultured in any synthetic medium. 3. Viruses are transmitted from one organism to another by biological vectors only	Science and Technology	A	M	F	NCERT X SCIENCE 93 http://www.news-medical.net/health/What-is-a-Virus.aspx	EM Option 1 is right because viruses do not have the chemical machinery needed to survive on their own. Option 2 is wrong because they seek out host cells in which they can multiply. Viruses can't be grown on synthetic media (e.g. agar [a type of geletin]) but they can be grown on cultures of bacteria. Bacteria reproduce and live like any other living organism would, it takes in nutrients and reproduces using binary fission (like mitosis). Viruses on the other hand are like little aliens. They really aren't "living" since they don't absorb nutrients or produce waste.	

	Select the correct answer using the codes given below. (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3							Rather they hook onto another cell (e.g. a bacterium) and inject the cell with its own viral genetic code. This code then causes the cell to produce the multiple copies of the virus, essentially doing the reproduction for the virus at the cost of its own resources. The virus can't reproduce itself without another cell to "build" its copies. Therefore we can't grow a virus on a synthetic media . Option 3 is also wrong because viruses enter the body from the environment or other individuals from soil to water to air via nose, mouth, or any breaks in the skin and seek a cell to infect.	
44	Which of the following leaf modifications occurs/occur in desert areas to inhibit water loss? 1. Hard and waxy leaves 2. Tiny leaves or no leaves 3. Thorns instead of leaves Select the correct answer using the codes given below. (a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3	Geography	D	M	F	GC Leong page 136	EM	Plants have few or no leaves and foliage is either waxy hairy or needle shaped to prevent water loss.	
45	The known forces of nature can be divided into four classes, viz., gravity, electromagnetism, weak nuclear force and strong nuclear force. With reference to them, which one of the following statements is not correct? (a) Gravity is the strongest of the four (b) Electromagnetism acts only on particles with an electric charge (c) Weak nuclear force causes radioactivity (d) Strong nuclear force holds protons and neutrons inside the nucleus of an atom	Science and Technology	A	E	FCA	http://library.thinkquest.org/27930/forces.htm	RM	Gravity, the weakest of the four forces, is about 10^{-36} times the strength of the strong force. This weakness is easily demonstrable - on a dry day, when we rub a comb across shirt to give it static electricity and when we hold it over a piece of paper on a desk the piece of paper lifts off the desk. It takes an entire planet to keep the paper on the desk, but this force is easily overcome with everyday materials employing the electromagnetic force.	String Theory was in news due to Higgs Boson etc.
46	The efforts to detect the existence of Higgs boson particle have become frequent news in the recent past. What is/are the importance/importances of discovering this particle? 1. It will enable us to understand as to why elementary particles have mass. 2. It will enable us in the near future to develop the technology of transferring matter from one point to another without traversing the physical space between them. 3. It will enable us to create better fuels for nuclear mission. Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Science and Technology	A	D	CA	http://www.foxnews.com/science/2013/03/14/6-implications-finding-higgs-boson-particle/ http://howmanyarethere.net/how-many-new-discoveries-will-higgs-boson-help-to-make-for-the-world/	EN	Option 1:- The Higgs boson has long been thought the key to resolving the mystery of the origin of mass. The Higgs boson is associated with a field, called the Higgs field, theorized to pervade the universe. As other particles travel through this field, they acquire mass much as swimmers moving through a pool get wet, the thinking goes. Option 2 and 3 :- (Scientists are not sure about these discoveries yet so should be considered as Wrong/Doubtful) How many new discoveries will Higgs Boson help to make for the world? Higgs Boson is not a main item that will open the way for teleportation but it will help to understand about mass, time and travel in time and space. In the close or far future, Higgs Boson may help us to create an unbelievable energy source.	
47	Mycorrhizal biotechnology has been used in rehabilitating degraded sites because	Science and Technology	D	D	F	http://theearthproject.org/id62.html	RR	All three options are correct. Option-1:-	

	<p>mycorrhiza enables the plants to</p> <p>1. Resist drought and increase absorptive area</p> <p>2. Tolerate extremes of pH</p> <p>3. Resist disease infestation</p> <p>Select the correct answer using the codes given below:</p> <p>(a) 1 only (b) 2 and 3 only</p> <p>(c) 1 and 3 only (d) 1, 2 and 3</p>				<p>http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0048946</p> <p>http://link.springer.com/article/10.1007%2FBF01238788</p>		<p>Re-introduction of Arbuscular Mycorrhizal Fungi into agricultural soils has been shown to increase crop yields in nutrient poor soils, increase yields for agricultural plants that have large requirement for nutrients and water, and restore structure and fertility to degraded soils. The resulting soil structure allows air and water movement into the soil, encouraging root growth and distribution, allows intra-aggregate organic matter to be slowly decomposed by microbes and converted into plant-available nutrients, and makes the soil less susceptible to wind and water erosion.</p> <p>Option-2:-</p> <p>Anthropogenic deposition increases the possibility of phosphorus (P) limiting productivity in forest ecosystems. Moreover, inorganic P availability is largely controlled by soil pH and biogeochemical theory suggests that forests with acidic soils (i.e., <pH 5) are particularly vulnerable to P limitation. Results from previous studies in these systems are mixed with evidence both for and against P limitation. Shifts in mycorrhizal colonization and community structure help temperate forest ecosystems overcome an underlying P limitation by accessing mineral and organic P sources that are otherwise unavailable for direct plant uptake.</p> <p>Option-3:-</p> <p>Vesicular-arbuscular mycorrhizae (VAM) enhance plant growth through increased nutrient uptake, stress tolerance and disease resistance. As an integral part of the root system, they interact with other microorganisms in soil and result in increased root exudation approaching about 25% of the plant dry matter production. Roots support a multitude of microorganisms that, in concert, can have profound influence on growth and survival of the plant. VAM fungi can alter the root exudation pattern, enhance chitinolytic activity and alter photosynthetic/respiratory deficiencies. VAM-positive plants are known to exhibit varied resistance towards soil-borne and foliar pathogens. The known interactions include a number of mechanisms, such as exclusion of the pathogen, lignification of plant cell walls, changed phosphate nutrition resulting in altered exudation by roots, and formation of inhibitory low molecular weight compounds.</p>		
48	<p>Who among the following constitute the National Development Council?</p> <p>1. The Prime Minister</p> <p>2. The Chairman, Finance Commission</p> <p>3. Ministers of the Union Cabinet</p> <p>4. Chief Ministers of the States</p> <p>Select the correct answer using the codes given below.</p> <p>(a) 1, 2 and 3 only (b) 1, 3 and 4 only</p> <p>(c) 2 and 4 only (d) 1, 2, 3 and 4</p>	Polity	B	E	F	Laxmikanth page 45.1	EM		In Dec 2012 NDC meet, Jayalalitha walked out of the meeting citing humiliation
49	<p>The national income of a country for a given period is equal to the</p> <p>(a) total value of goods and services produced by the nationals</p>	Economy	A	M	F	NCERT XII-Macro Economics Page 24	EM	<p>NNP at factor cost \equiv National Income (NI)</p> <p>so A is the best option.</p> <p>No other option mentions Nationals.</p>	

	(b) sum of total consumption and investment expenditure (c) sum of personal income of all individuals (d) money value of final goods and service produced								
50	Which of the following grants/grant direct credit assistance to rural households? 1. Regional Rural Banks 2. National Bank for Agriculture and Rural Development 3. Land Development Banks Select the correct answer using the codes given below. (a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3	Economy	C	M	FCA	Economic Survey	RM	NABARD do not provide direct assistance. It "refinance" the assistance by other institutions	Capital infusion in NABARD for financial year 12-13 to increase its Net Owned Fund (NOF) so that its lending capacity can increase
51	What will follow if a Money Bill is substantially amended by the Rajya Sabha? (a) The Lok Sabha may still proceed with the Bill, accepting or not accepting the recommendations of the Rajya Sabha (b) The Lok Sabha cannot consider the Bill further (c) The Lok Sabha may send the Bill to the Rajya Sabha for reconsideration (d) The President may call a joint sitting for passing the Bill	Polity	A	E	F	Laxmikanth page 22.21	EM	Although Rajya Sabha can't amend or reject the money bill, but it can make recommendations, which lok sabha may or may not accept. So statement 1 is correct.	
52	Which one of the following statements is correct? (a) In India, the same person cannot be appointed as Governor for two or more States at the same time. (b) The Judges of the High Court of the States in India are appointed by the Governor of the State just as the Judges of the Supreme Court are appointed by the President (c) No procedure has been laid down in the Constitution of India for the removal of a Governor from his/her post (d) In the case of a Union Territory having a legislative setup, the Chief Minister is appointed by the Lt. Governor on the basis of majority support	Polity	C	E	F	Statement 1 - Laxmikanth page 24.4 Statement 2 - Laxmikanth page 28.1 Statement 3 - Laxmikanth page 24.5 Statement 4 - Laxmikanth page 32.5	EM	Statement 1 - Same person can be appointed as Governor of two or more states at the same time. Statement 2 - Judges of HC are also appointed by President Statement 4 - In case of UTs, CM is appointed by President.	
53	Which one of the following pairs is correctly matched? Geographical Feature Region (a) Abyssinian Plateau Arabia (b) Atlas Mountains North-Western Africa (c) Guiana Highlands South-Western Africa (d) Okavango Basin Patagonia	Geography	B	D	F	Refer any standard atlas.	RR		

54	<p>With reference to the history of Indian rock-cut architecture, consider the following statements:</p> <ol style="list-style-type: none"> 1. The cases at Badami are the oldest surviving rock-cut caves in India. 2. The Barabar rock-cut cases were originally made for Ajivikas by Emperor Chandragupta Maurya. 3. At Ellora, caves were made for different faiths. <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 and 3 only (c) 3 only (d) 1, 2 and 3</p>	Art/ Culture	C	D	F	<p>NIOS Art and Culture(statement 3) http://en.wikipedia.org/wiki/Barabar_caves</p>	RR	<p>The Barabar Caves are the oldest surviving rock-cut caves in India. These rock-cut chambers date back to the 3rd century BC, Maurya period, of Ashoka (r. 273 BC to 232 BC.) and his son, Dasaratha. These caves were used by ascetics from the Ajivika sect, founded by Makkhali Gosala.</p> <p>Ellora is a World Heritage Site. The 12 Buddhist (caves 1–12), 17 Hindu (caves 13–29) and 5 Jain (caves 30–34) caves, built in proximity, demonstrate the religious harmony prevalent during this period of Indian history.</p>	
55	<p>Recombination DNA technology (Genetic Engineering) allows genes to be transferred</p> <ol style="list-style-type: none"> 1. across different species of plants 2. from animals to plants 3. from microorganisms to higher organisms <p>Select the correct answer using the codes given below.</p> <p>(a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>	Science and Technology	D	E	F	<p>Option:- 1(http://www.rpi.edu/dept/chem-eng/Biotech-Environ/Projects00/rdna/link3.html)</p> <p>Option:- 2(http://www.rpi.edu/dept/chem-eng/Biotech-Environ/Projects00/rdna/link3.html)</p> <p>Option:- 3(http://www.rpi.edu/dept/chem-eng/Biotech-Environ/Projects00/rdna/link2.html)</p>	EM	<p>Recombinant DNA is the general name for taking a piece of one DNA, and combining it with another strand of DNA. All three options in the question are correct. Examples of these methods are:-</p> <ol style="list-style-type: none"> 1) The gene 'Chitinase' has source organism 'Rice' and characteristic conferred on transformed plants is Fungal resistance. 2) The gene '2'-5' oligoadenylate synthetase' has source organism 'Rat' and characteristic conferred on transformed plants is Virus resistance. 3) Human Proteins 'Somatostatin' have been synthesized from genes in bacteria and used in the treatment of Growth disorders. 	GM crops in news and recent report on them by Parliamentary committee
56	<p>The Chinese traveler Yuan Chwang (Hiuen Tsang) who visited India recorded the general conditions and culture of India at that time. In this context, which of the following statements is/are correct?</p> <ol style="list-style-type: none"> 1. The roads and river-routes were completely immune from robbery. 2. As regards punishment for offences, ordeals by fire, water and poison were the instruments for determining the innocence or guilt of a person. 3. The tradesmen had to pay duties at ferries and barrier stations. <p>Select the correct answer using the codes given below.</p> <p>(a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>	Ancient India	B	M	F	Ancient Indian History And Civilization By S. N. Sen Page 258	RR	<p>Violent crime was rare, but the roads and river routes were exposed to brigands as Hiuen - tsang fell victim to them more than once. Criminal law was exceptionally severe. Imprisonment for life was the ordinary penalty for violation of the statute law and conspiracy against the sovereign; prisoners were not treated as human beings. but on festive and joyous occasions they were, however, released. The punishment were of cruel nature as mutilation of the nose, ears, hands or feet being inflicted as the penalty of serious offences. Sometimes the offenders were deported to another country. Ordeals by fire, water or poison were sometimes taken recourse to establish the innocence or guilt of a person. The severity of the criminal law acted as a deterrent to violation of law.</p>	
57	<p>Consider the following:</p> <ol style="list-style-type: none"> 1. Star tortoise 2. Monitor lizard 	Environment	A	D	FCA	http://www.thehindu.com/news/cities/Vijayawada/monitor-lizards-find-their-way-to-	RM	<p>Spider Monkeys live in tropical climates, specifically the evergreen forests of Central and South America. They can also be found as far north as Mexico but not in India.</p>	

	<p>3. Pygmy hog 4. Spider monkey Which of the above are naturally found in India?</p> <p>(a) 1, 2 and 3 only (b) 2 and 3 only (c) 1 and 4 only (d) 1, 2, 3 and 4</p>					market/article3745863.ece			
58	<p>Which of the following can be found as pollutants in the drinking water in some parts of India?</p> <p>1. Arsenic 2. Sorbitol 3. Fluoride 4. Formaldehyde 5. Uranium</p> <p>Select the correct answer using the codes given below.</p> <p>(a) 1 and 3 only (b) 2, 4 and 5 only (c) 1, 3 and 5 only (d) 1, 2, 3, 4 and 5</p>	Environment	C	D	FCA	<p>http://www.thehindu.com/today-s-paper/tp-in-school/punjab-water-tests-positive-for-uranium/article3637381.ece http://www.indianexpress.com/news/jairam-uranium-in-rural-punjab-s-drinking-water/971365/</p>	RM	<p>Punjab is the first state to report presence of uranium in drinking water in rural areas with almost 70 per cent samples sent to Bhabha Atomic Research Centre (BARC) testing positive for presence of the radioactive material</p>	
59	<p>With reference to Indian History, the Members of the Constituent Assembly from the Provinces were</p> <p>(a) directly elected by the people of those Provinces (b) nominated by the Indian National Congress and the Muslim League (c) elected by the Provincial Legislative Assemblies (d) selected by the Government for their expertise in constitutional matters</p>	Modern History	C	E	F	Page 18, Introduction of the Constitution of India - DD Basu	EM	<p>The Assembly members were elected to it indirectly by the members of the individual provincial legislative assemblies.</p>	
60	<p>Consider the following animals:</p> <p>1. Sea cow 2. Sea horse 3. Sea lion</p> <p>Which of the above is/are mammal/mammals?</p> <p>(a) 1 only (b) 1 and 3 only (c) 2 and 3 only (d) 1, 2 and 3</p>	Environment	B	D	FCA	<p>http://pib.nic.in/newsite/erelease.aspx?relid=93882 http://www.thehindu.com/today-s-paper/tp-national/tp-tamilnadu/call-to-serve-dugong/article4186729.ece http://www.britannica.com/EBchecked/topic/530513/sea-cow http://www.evi.com/q/is_a_sea_horse_a_mammal http://www.sandiegozoo.org/animalbytes/t-sea_lion.html</p>	RM	<p>Mammals are the class of vertebrate animals characterized by the presence of sweat glands, including sweat glands modified for milk production, hair, three middle ear bones used in hearing, and a neocortex region in the brain.</p> <p>Sea Cow:- Sea Cow (<i>Hydrodamalis gigas</i>), also called Steller's sea cow, very large aquatic mammal.</p> <p>Sea Horse:- Sea horse is a vertebrate fish.</p> <p>Sea Lion:- It is warm blooded, gives birth to live young, has hair, and the female produces milk. All these are characteristics of mammals.</p>	Sea Cow(Dugong) was quite in news
61	<p>Consider the following statements:</p> <p>1. An amendment to the Constitution of India can be initiated by an introduction of a bill in the Lok Sabha only. 2. If such an amendment seeks to make changes in the federal character of the Constitution, the amendment also requires to be ratified by the legislature of all the States of India.</p>	Polity	D	E	F	Laxmikanth page 10.1,10.2	EM	<p>Statement 1 - it can be initiated in any house. Statement 2 - The amendment is required to be ratified by only not less than half states of India.</p>	

	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								
62	Consider the following statements: Attorney General of India can 1. take part in the proceedings of the Lok Sabha 2. be a member of a committee of the Lok Sabha 3. speak in the Lok Sabha 4. vote in the Lok Sabha Which of the statements given above is/are correct? (a) 1 only (b) 2 and 4 (c) 1, 2 and 3 (d) 1 and 3 only	Polity	C	E	FCA	Laxmikanth page 42.1	EM	He doesn't have right to vote.	Attorney General in controversy in recent affidavit by CBI in Supreme Court regarding Coal scam report and subsequent resignation letter by Additional Solicitor General
63	With reference to the usefulness of the by-products of sugar industry, which of the following statements is/are correct? 1. Bagasse can be used as biomass fuel for the generation of energy. 2. Molasses can be used as one of the feedstocks for the production of synthetic chemical fertilizers. 3. Molasses can be used for the production of ethanol. Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Environment	C	M	CA	http://biomassmagazine.com/articles/5247/bagasse-power http://www.smilinggardener.com/organic-fertilizers/molasses-as-fertilizer http://sugarcane.org/sugarcane-products/ethanol	EN	Option 1:- When burned by a sugar mill, bagasse, the fibrous material leftover after juice is extracted from sugarcane, usually produces enough electricity to power all of the mill's operations and then some. Option 2:- Molasses fertilizer is an organic fertilizer. Option 3:- Sugarcane ethanol is an alcohol-based fuel produced by the fermentation of sugarcane juice and molasses. Sugarcane ethanol has emerged as a leading renewable fuel for the transportation sector.	Rangarajan Panel Report
64	Variations in the length of daytime and nighttime from season to season are due to (a) the earth's rotation on its axis (b) the earth's revolution round the sun in an elliptical manner (c) latitudinal position of the place (d) revolution of the earth on a tilted axis	Geography	D	E	F	Old NCERT Class VI page 25	EM	On its path around the sun, the earth's axis always remains inclined to one side. Because of this constant inclination in one direction, the Northern Hemisphere remains inclined towards the sun or faces the sun during one half of the year. Therefore, a larger part of this hemisphere receives sunlight. Every point in this hemisphere takes a longer time to go out of the sunlight, with the result that the days are longer. In contrast, the Southern Hemisphere is away from the sun. It, therefore, has shorter days and longer nights. During the other half of the year, the Southern Hemisphere is inclined towards the sun. Hence, it has longer days and shorter nights.	
65	The Narmada river flows to the west, while most other large peninsular rivers flow to the east. Why? 1. It occupies a linear rift valley. 2. It flows between the Vindhyas and the Satpuras. 3. The land slopes to the west from Central India. Select the correct answer using the codes	Geography	A	D	F	INDIA : PHYSICAL ENVIRONMENT page 27	EM	The Narmada and the Tapi flow through the rift valley. Statement 3 is wrong as land slopes to the east in the region. Statement 2 is factually correct however, is not the reason for the rivers to flow to the west.	

	given below. (a) 1 only (b) 2 and 3 (c) 1 and 3 (d) None							
66	On the planet earth, most of the freshwater exists as ice caps and glaciers. Out of the remaining freshwater, the largest proportion (a) is bound in atmosphere as moisture and clouds (b) is found in freshwater lakes and rivers (c) exists as groundwater (d) exists as soil moisture	Environment	C	E	F	NCERT Ecology and Environment page 281	EM	
67	Consider the following pairs: 1. Nokrek Biosphere Reserve Garo Hills 2. Logtak (Loktak) Lake Barail Range 3. Namdapha National Park Dafla Hills Which of the above pairs is/are correctly matched? (a) 1 only (b) 2 and 3 only (c) 1, 2 and 3 (d) None	Geography	A	M	F	Page 18,35 Orient Black Swan School Atlas	RM	
68	Consider the following: 1. Electromagnetic radiation 2. Geothermal energy 3. Gravitational force 4. Plate movements 5. Rotation of the earth 6. Revolution of the earth Which of the above are responsible for bringing dynamic changes on the surface of the earth? (a) 1, 2, 3 and 4 only (b) 1, 3, 5 and 6 only (c) 2, 4, 5 and 6 only (d) 1, 2, 3, 4, 5 and 6	Geography	D	M	FA	NCERT FUNDAMENTALS OF PHYSICAL GEOGRAPHY Chapter 6 - Geomorphic Processes	RR	Electro-magnetic radiation causes temperature change which induces metamorphism of rocks. Gravity besides being a directional force activating all downslope movements of matter also causes stresses on the earth's materials. Plate movement results into continent building. The energy emanating from within the earth is the main force behind endogenic geomorphic processes. This energy is mostly generated by radioactivity, rotational and tidal friction and primordial heat from the origin of the earth. This energy due to geothermal gradients and heat flow from within induces diastrophism and volcanism in the lithosphere. Due to variations in geothermal gradients and heat flow from within, crustal thickness and strength, the action of endogenic forces are not uniform and hence the tectonically controlled original crustal surface is uneven.
69	Which of the following bodies does not/do not find mention in the Constitution? 1. National Development Council 2. Planning Commission 3. Zonal Councils Select the correct answer using the codes given below: (a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3	Polity	D	E	F	Laxmikanth http://www.mha.nic.in/uniquepage.asp?ID_PK=470	EM	NDC and Planning Commission are non-constitutional and non-statutory bodies while Zonal councils were set up vide Part-III of 'States Re-organisation Act, 1956'
70	The demand for the Tebhaga Peasant Movement in Bengal was for (a) the reduction of the share of the landlords from one-half of the crop to one-third (b) the grant of ownership of land to peasants as they were the actual cultivators of the land.	Modern History	A	D	F	Spectrum Modern India P-387	EM	The Tebhaga movement was a militant campaign initiated in Bengal by the Kisan Sabha (peasants front of Communist Party of India) in 1946. At that time share-cropping peasants (essentially, tenants) had to give half of their harvest to the owners of the land. The demand of the Tebhaga (sharing by thirds) movement was to reduce the share given to landlords to one third.

	(c) the uprooting of Zamindari system and the end of serfdom (d) writing off all peasant debts							
71	The Parliament can make any law for whole or any part of India for implementing International treaties (a) with the consent of all the States (b) with the consent of the majority of States (c) with the consent of the States concerned (d) without the consent of any State	Polity	D	E	F	Laxmikanth Page 13.4	EM	Article 253
72	In the grasslands, trees do not replace the grasses as a part of an ecological succession because of (a) insects and fungi (b) limited sunlight and paucity of nutrients (c) water limits and fire (d) None of the above	Environment	C	E	F	http://www.sparknotes.com/testprep/books/sat2/biology/chapter10section4.rhtml http://gerrymarten.com/human-ecology/chapter06.html	EM	Ecological succession typically begins when the existing biological community has been cleared away by human activity or natural disturbance such as a fire or severe storm. The population of trees that once lived in this area can't grow back because the fire has changed the ground composition. Without tree roots to act as anchors, rain washes away the soil and the ground becomes rocky and barren. This rocky ground, however, proves ideal to lichens, the pioneer population. Mosses and herbs are well suited to living in the shallow soil environment created by the lichen, and they replace the lichen as the dominant population. Grasses intercept most of the rainwater before it reaches the roots of the shrubs. Because the grasses limit the supply of water to the shrub seedlings, they maintain the integrity of the ecosystem as a grass ecosystem.
73	Which one of the following is the correct sequence of ecosystems in the order of decreasing productivity? (a) Oceans, lakes, grasslands, mangroves (b) Mangroves, oceans, grasslands, lakes (c) Mangroves, grasslands, lakes, oceans (d) Oceans, mangroves, lakes, grasslands	Environment	C	M	F	http://universalium.academic.ru/295220/Average_net_primary_production_of_the_Earth%27s_major_habitats	RM	Mangroves-2500 Grassland-500 Lakes-500 Open Ocean-125
74	Contour bunding is a method of soil conservation used in (a) desert margins, liable to strong wind action (b) low flat plains, close to stream courses, liable to flooding (c) scrublands, liable to spread of weed growth (d) None of the above	Geography	D	E	F	Environmental Studies for Undergraduate Courses by Erach Barucha page 29	EM	Contour bunding (or contour bundling), involves the placement of lines of stones along the natural rises of a landscape. It helps to capture and hold rainfall before it can become runoff, which reduces soil erosion and retards overall water loss
75	The Government enacted, the Panchayat Extension to Scheduled Areas (PESA) Act in 1996. Which one of the following is not identified as its objective? (a) To provided self-governance (b) To recognize traditional rights (c) To create autonomous regions in tribal areas	Polity	C	E	F	http://socialissuesindia.files.wordpress.com/2011/08/pesa_act_1996.pdf page 8-9	EM	Since the laws do not automatically cover the scheduled areas, the PESA Act was enacted to enable the law in these areas. The Act extended the provisions of Panchayats to the tribal areas of nine states that have Fifth Schedule Areas. Most of the North eastern states under Sixth Schedule Areas (where autonomous councils exist) are not covered by PESA, as these states have their own Autonomous councils for governance.

	(d) To free tribal people from exploitation							
76	Under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, who shall be the authority to initiate the process for determining the nature and extent of individual or community forest rights or both? (a) State Forest Department (b) District Collector/Deputy Commissioner (c) Tahsildar/Block Development Officer/Mandal Revenue Officer (d) Gram Sabha	Polity	D	E	FCA	http://www.fra.org.in/laws/fra06.pdf Chapter IV clause 6(I)	RM	SC judgement in April regarding role of Gram Sabha in Vedanta Mining case in Odisha under Forest Rights Act and PESA Act.
77	Improper handling and storage of cereal grains and oilseeds result in the production of toxins known as aflatoxins which are not generally destroyed by normal cooking process. Aflatoxins are produced by (a) bacteria (b) protozoa (c) moulds (d) viruses	Environment	C	D	CA	In News Business Standard: EU may ban Indian groundnut imports due to aflatoxin The Hindu: Maize should not be included in PDS	RR	Aflatoxins are naturally occurring mycotoxins that are produced by many species of <i>Aspergillus</i> , a fungus. The term "mould" is a common name having no taxonomic significance. It is applied to a variety of fungi which grow as semi-microscopic organisms, and whose mycelium tends to form a loose meshwork rather than a dense tissue.
78	'Economic Justice' as one of the objectives of the Indian Constitutional has been provided in (a) the Preamble and the Fundamental Rights (b) the Preamble and the Directive Principles of State Policy (c) the Fundamental Rights and the Directive Rights and the Directive Principles of State Policy (d) None of the above	Polity	B	E	F	Laxmikant page 4.3 Laxmikant Page 8.5	EM	Directive Principles strive for the 'economic democracy/justice' while Fundamental rights strive for 'Political democracy/justice'
79	Due to improper/indiscriminate disposal of hold and used computers or their parts, which of the following are released into the environment as e-waste? 1. Beryllium 2. Cadmium 3. Chromium 4. Heptachlor 5. Mercury 6. Lead 7. Plutonium Select the correct answer using the codes given below: (a) 1, 3, 4, 6 and 7 only (b) 1, 2, 3, 5 and 6 only (c) 2, 4, 5 and 7 only (d) 1, 2, 3, 4, 5, 6 and 7	Environment	B	M	F	http://www.mvonederland.nl/sites/default/files/makeitfair-metalsusedinapc-2010.pdf http://www.mnn.com/earth-matters/translating-uncle-sam/stories/which-household-items-contain-mercury	EM	Beryllium is used in circuit board, Hard disk drive, Motherboard, Wiring board and Connectors. So Option C is wrong. Mercury is a key part of some modern technologies, including LCD screens, Laptop and computers so Option A is also wrong. Heptachlor is an organochlorine compound that was used as an insecticide. So Option D is also wrong. If initially we are sure about Heptachlor then we can easily eliminate A, C and D. So correct answer is B.
80	Acid rain is caused by the pollution of environment by	Environment	D	E	F	http://www.air-quality.org.uk/15.php	EM	Sulphur dioxide and nitrogen oxides both combine with water in the atmosphere to create acid rain.

	(a) carbon dioxide and nitrogen (b) carbon monoxide and carbon dioxide (c) ozone and carbon dioxide (d) nitrous oxide and sulphur dioxide							
81	With reference to food chains in ecosystems, consider the following statements: 1. A food chains illustrates the order in which a chain of organisms feed upon each other. 2. Food chains are found within the populations of a species. 3. A food chain illustrates the numbers of each organism which are eaten by others. Which of the statements given above is/are correct? (a) 1 only (b) 1 and 2 only (c) 1, 2 and 3 (d) None	Environment	A	E	F	http://www.enchantedlearning.com/subjects/foodchain/	EM	A food chain is the sequence of who eats whom in a biological community (an ecosystem) to obtain nutrition.
82	Consider the following pairs: National Park River flowing through the Park 1. Corbett National Park Ganga 2. Kaziranga National Park Manas 3. Silent Valley National Park Kaveri Which of the above pairs is/are correctly mached? (a) 1 and 2 (b) 3 only (c) 1 and 3 (d) None	Geography	D	M	FCA	http://enchantingkerala.org/kerala-wildlife-sanctuaries/silent-valley-national-park.php http://www.jimcorbett-nationalpark.com/rivers-corbett-national-park-india.htm	RM	Ramganga, a tributary of Ganga passes through Corbett NP but Ganga does. Kaveri and Manas also do not pass through Silent valley and Kaziranga NP respectively.
83	Consider the following organisms: 1. Agaricus 2. Nostoc 3. Spirogyra Which of the above is/are used as biofertilizer/biofertilizers? (a) 1 and 2 (b) 2 only (c) 2 and 3 (d) 3 only	Environment	B	D	F	http://www.hindu.com/thehindu/seta/2002/04/04/stories/2002040400120400.htm http://www.preservearticles.com/2012042731295/get-complete-information-on-biofertilizers.html	RR	Agaricus:- Agaricus is a genus of mushrooms containing both edible and poisonous species, with possibly over 300 members worldwide. Nostoc:- Bioinoculants are the microbial preparations that enhance the uptake of nutrients by plants from the soil, increase the avaiability of the nutrients and stimulate plant growth. There are two types of organisms which are used as inoculants: symbiotic organisms (such as Rhizobium, Synorhizobium, Bradyrhizobium, Nostoc, Anabaena, etc.) and non-symbiotic organisms (such as Azotobacter, Azospirillum, Beijerinckia, etc.) Spirogyra:- Spirogyra is a genus of filamentous green algae of the order Zygnematales, named for the helical or spiral arrangement of the chloroplasts that is diagnostic of the genus.
84	Which of the following adds/add nitrogen to the soil? 1. Excretion of urea by animals 2. Burning of coal by man 3. Death of vegetation Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Geography	C	M	F	Page 60 Environmental Studies for Undergraduate Courses by E. Barucha	EM	Carnivorous animals feed on herbivorous animals that live on plants. When animals defecate, this waste material is broken down by worms and insects mostly beetles and ants. These small 'soil animals' break the waste material into smaller bits on which microscopic bacteria and fungi can act. This material is thus broken down further into nutrients that plants can absorb and use for their growth. Thus nutrie nts are recycled back from animals to plants. Similarly the bodies of dead animals are also broken down into

							nutrients that are used by the plants for their growth. Thus the nitrogen cycle on which life is dependent is completed. Statement 2 is wrong as burning of coal does not produce Nitrogen of its compounds.	
85	In which of the following States is lion-tailed macaque found in its natural habitat? 1. Tamil Nadu 2. Kerala 3. Karnataka 4. Andhra Pradesh Select the correct answer using the codes given below: (a) 1, 2 and 3 only (b) 2 only (c) 1, 3 and 4 only (d) 1, 2, 3 and 4	Environment	A	M	CA	http://www.thehindu.com/sci-tech/energy-and-environment/liontailed-macaque-taken-off-top-25-endangered-list/article3999612.ece http://silentvalley.gov.in/lion_tailed_macaque.html	EN The lion- tailed macaque is one of the most endangered primates of India , confined in distribution to the rainforests of southern Western Ghats. Habitat specialists , they have adapted themselves to the evergreen environments available in the south Indian states of Kerala, Karnataka and Tamil Nadu.	Lion-tailed macaque taken off 'top 25' endangered list
86	Some Buddhist rock-cut caves are called Chaityas, while the others are called Viharas. What is the difference between the two? (a) Vihara is a place of worship, while Chaitya is the dwelling place of the monks (b) Chaitya is a place of worship, while Vihara is the dwelling place of the monks (c) Chaitya is the stupa at the far end of the cave, while Vihara is the hall axial to it (d) There is no material difference between the two	Art/ Culture	B	E	F	11 th Ancient NCERT by R S Sharma P-159	RM	
87	Which one of the following describes best the concept of Nirvana in Buddhism? (a) The extinction of the flame of desire (b) The complete annihilation of self (c) A state of bliss and rest (d) A mental stage beyond all comprehension	Art/ Culture	A	M	F	NIOS art and Culture Page 122	RM	Buddha did not define Nirvana, as a state possessing few characteristics. Buddhism defines Nirvana as being free from desire, pain, pleasure etc. It is like an extinction of flame
88	According to the Constitution of India, which of the following are fundamental for the governance of the country? (a) Fundamental Rights (b) Fundamental Duties (c) Directive Principles of State Policy (d) Fundamental Rights and Fundamental Duties	Polity	C	E	F	Laxmikant Page 8.1	EM	Article 37 says that Directive Principles are fundamental for the governance of country
89	The people of India agitated against the arrival of Simon Commission because (a) Indians never wanted the review of the working of the Act of 1919 (b) Simon Commission recommended the abolition of Dyarchy (Diarchy) in the Provinces (c) There was no Indian member in the Simon Commission (d) The Simon Commission suggested the	Modern History	C	E	F	Spectrum Modern India p- 157	EM	

	partition of the country							
90	Quit India Movement was launched in response to (a) Cabinet Mission Plan (b) Cripps Proposals (c) Simon Commission Report (d) Wavell Plan	Modern History	B	E	F	Spectrum Modern India p- 205	EM	The Cripps Mission Proposal , which included terms like establishment of Dominion, establishment of a Constituent Assembly and right of the Provinces to make separate constitutions, These would be, however, granted after the cessation of the Second World War,So fail to satisfy Indian Nationalists. According to the Congress this Declaration only offered India a promise that was to be fulfilled in the future. Commenting on this Gandhi said; "It is a post dated cheque on a crashing bank and in CWC meeting at wardha july 1942 accepted the idea of Struggle
91	The balance of payments of a country is a systematic record of (a) all import and export transactions of a country during a given period of time, normally a year (b) goods exported from a country during a year (c) economic transaction between the government of one country to another (d) capital movements from one country to another	Economy	A	E	F	NCERT Class XII: Macroeconomics Page 77	EM	The balance of payments (BoP) record the transactions in goods, services and assets between residents of a country with the rest of the world for a specified time period typically a year. so best option is A.
92	The Reserve Bank of India regulates the commercial banks in matters of 1. liquidity of assets 2. branch expansion 3. merger of banks 4. winding-up of banks Select the correct answer using the codes given below: (a) 1 and 4 only (b) 2, 3 and 4 only (c) 1, 2 and 3 only (d) 1, 2, 3 and 4	Economy	D	M	FCA	NCERT Class XII: Macroeconomics Page 43 Instruments of Monetary Policy and the Reserve Bank of India + RBI, CCI to vet all banking mergers Business Standard	RM	All statemets are implied from the fact that RBI is regulator of Banks. One could think that merger might come under CCI only but its comes both under CCI and RBI. 1. CRR, SLR etc. 2. Press Information Bureau English ReleasesAs per Reserve Bank of India's (RBI) Branch Authorisation Policy, general permission has been granted to domestic Scheduled Commercial Banks (other than RRBs) to open branches / mobile branches / Administrative Offices / CPCs (Service Branches), (i) in Tier 3 to Tier 6 centres (with population up to 49,999) and (ii) in rural, semi-urban and urban centres of the North-Eastern States and Sikkim subject to reporting. Opening of branches by these banks in Tier 1 and Tier 2 centres (centres with population of 50,000 and above) requires prior approval of RBI except in North Eastern States and Sikkim. Banks apply for authorisations for opening of branches in Tier 1 and Tier 2 centres in their Annual Branch Expansion Plan. 3. Mergers and acquisitions (M&As) in the banking space may require clearance from fair market watchdog, Competition Commission of India (CCI), as well as the sector regulator, Reserve Bank of India (RBI). Earlier, the indications were that only involuntary mergers and acquisitions, the ones directed by the RBI, would go to the central bank along with the CCI. However, all mergers and acquisitions may now come under both. While the CCI will look at the competition part of such deals, the RBI will see prudential aspects. 4. RBI issued order to windup few banks in recent past. (Sahara India Financial Corp (SIFCL), the parabanking arm of Sahara India

							Pariwar, Siddharth Cooperative Bank, some Banks from Gujarat). Implied from deposit insurance and credit guarantee corporation (DICGC) scheme.	
93	An increase in the Bank Rate generally indicates that the (a) market rate of interest is likely to fall (b) Central Bank is no longer making loans to commercial banks (c) Central Bank is following an easy money policy (d) Central Bank is following a tight money policy	Economy	D	E	F	NCERT Class XII: Macroeconomics Page 44	EM a is wrong, as increase in bank rate generally implies an increase in RoI. b is obviously wrong. c is wrong as in easy money policy, central bank provides money at a cheaper rate so that market supply can increase	
94	In India, deficit financing is used for raising resources for (a) economic development (b) redemption of public debt (c) adjusting the balance of payments (d) reducing the foreign debt	Economy	A	E	F	NCERT XII-Macro Economics Page Economic Survey	RM	Stimulus packages were quite in news since economic slowdown.
95	Which of the following characterizes/characterize the people of Indus Civilization? 1. They possessed great palaces and temples. 2. They worshipped both male and female deities. 3. They employed horse-drawn chariots in warfare. Select the correct statement/statements using the codes given below: (a) 1 and 2 only (b) 2 only (c) 1, 2 and 3 (d) None of the statements given above is correct	Ancient India	B	M	F	11th Ancient NCERT BY R S SHARMA P - 61, 62	EM	
96	Which of the following diseases can be transmitted from one person to another through tattooing? 1. Chikungunya 2. Hepatitis B 3. HIV-AIDS Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Science and Technology	B	M	FCA	https://www.msu.edu/~krcmari1/individual/get_health.html	EN Currently there are some 200+ communicable diseases that can be transmitted through tattooing. Hepatitis B:- Hepatitis B and C can lead to serious, permanent liver damage and are known to be transmittable through tattooing. Hepatitis can survive outside its host for up to two weeks and can resist most normal forms of disinfection. Also, studies show that the ratio of hepatitis transmission through accidental needle stick is much greater than that of HIV. About one in five as opposed to one in 200 for HIV. HIV/AIDS:- The term needle in tattooing is a misnomer since tattoos are not applied by needles but rather with pins. A needle is typically a hollow core implement that is used primarily for intravenous injections such as a syringe or IV needle. Tattoo 'needles' are solid core and push the ink into the skin rather than inject it. This requires that the ink, and any contaminated blood mixed with it, must adhere to the outside surface of the pins causing the virus to come into contact with the open air.	New vaccine candidate for Chikungunya virus found (http://www.indianexpress.com/news/new-vaccine-candidate-for-chikungunya-virus-found/1078190/) Indian Immunologicals developing vaccine for chikungunya(http://www.thehindubusinessline.com/compani


								es/indian-immunologicals-developing-vaccine-for-chikungunya/article2875901.ece)
97	Which of the following statements is/are applicable to Jain doctrine? 1. The surest way of annihilating Karma is to practice penance. 2. Every object, even the smallest particle has a soul. 3. Karma is the bane of the soul and must be ended. Select the correct answer using the codes given below: (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Art/ Culture	D	E	F	NIOS art and Culture http://www.jainworld.com/pdf/JAINA_DOCTRINE_OF_KARMA.pdf p- 1 to 7	RM	
98	Which one of the following terms describes not only the physical space occupied by an organism, but also its functional role in the community of organisms? (a) Ecotone (b) Ecological niche (c) Habitat (d) Home range	Environment	B	E	F	12th NCERT: UNIT-NINE: ECOLOGY AND ENVIRONMENT http://www.biology-online.org/dictionary/Ecological_Niche	EM	The ecological niche is the ecological role and space that an organism fills in an ecosystem. The ecological niche involves both the place where an organism lives and the roles that an organism does in its habitat. For example, the ecological niche of a sunflower growing in the backyard includes absorbing light, water and nutrients (for photosynthesis), providing shelter and food for other organisms (e.g. bees, ants, etc.), and giving off oxygen into the atmosphere.
99	Photochemical smog is a resultant of the reaction among (a) NO ₂ , O ₃ and peroxyacetyl nitrate in the presence of sunlight (b) CO, O ₂ and peroxyacetyl nitrate in the presence of sunlight (c) CO, CO ₂ and NO ₂ at low temperature (d) high concentration of NO ₂ , O ₃ and CO in the evening	Environment	A	M	F	12th NCERT: UNIT-NINE: ECOLOGY AND ENVIRONMENT Page 312	EM	Major Chemical Pollutants in Photochemical Smog: - 1) Nitrogen Oxides (NO and NO ₂) 2) Volatile Organic Compounds (VOCs) 3) Ozone (O ₃) 4) Peroxyacetyl Nitrates (PAN)
100	Consider the following minerals: 1. Calcium 2. Iron 3. Sodium Which of the minerals given above is/are required by human body for the contraction of muscles? (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3	Science and Technology	D	D	F	http://healthyeating.sfgate.com/minerals-contract-muscle-6293.html http://www.livestrong.com/article/484418-what-minerals-contract-a-muscle/	RR	Calcium:- Calcium is essential for activating enzymes which cause muscle contraction. Iron:- Iron helps support continued muscle function by supporting energy production in your muscle cells, so that muscle fibers always have the energy they need to contract properly. Iron also helps muscles store oxygen to fuel muscle contractions, and promotes healthy circulation so that muscles can get additional oxygen from bloodstream. Sodium:- One needs sodium for muscle contraction because it balances potassium to maintain membrane potential.

Observations

- Paper is almost on the same lines as previous year. Importance of Ecology, Economy and Culture is increasing every year. Geography is almost constant but modern India has incurred losses.
- Question in Economy, Polity and History are basic and easy-medium difficulty questions. Science, Culture & Geography questions are medium to difficult level. In addition, less ambiguous questions this time compared to last year. So average score should be **more** in this paper compared to last year but not too much.
- Direct current affairs is losing significance but even then half of the fundamental questions looks inspired by current happenings. Moreover, background of current affairs are becoming important. (Coal scam is of no use but properties of Indian coal are important. Recommendation of Rangarajan Panel on Sugar decontrol are not important but use of sugar by product is important.)

Recommendations

- Read basic books properly. (more than 60% from basic books)
- Think, compare and contrast concepts. (Virus vs Bacteria as decomposer; Transmission of chikungunya vs Hepatitis B;)
- Familiarize yourself with keywords you encounter while reading basic books as well as current affairs (contour bunding, Demographic Dividend, disguised unemployment)
- Relate current affairs with basic topic keeping question in mind. Understand the significance of news.
- Do not take anything for granted. UPSC can change anytime. So prioritize studies but do not neglect any section/topic.







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2011 Toppers: Gitanjali Brandon (6), Harshika Singh (8), Amrutesh (10), Nikhil Kalyan (60), Chandra Vijay (94), Garima Singh (109).... (25 Plus Selections.....)

To download topper's answer booklets, interview transcripts and complete list of selections
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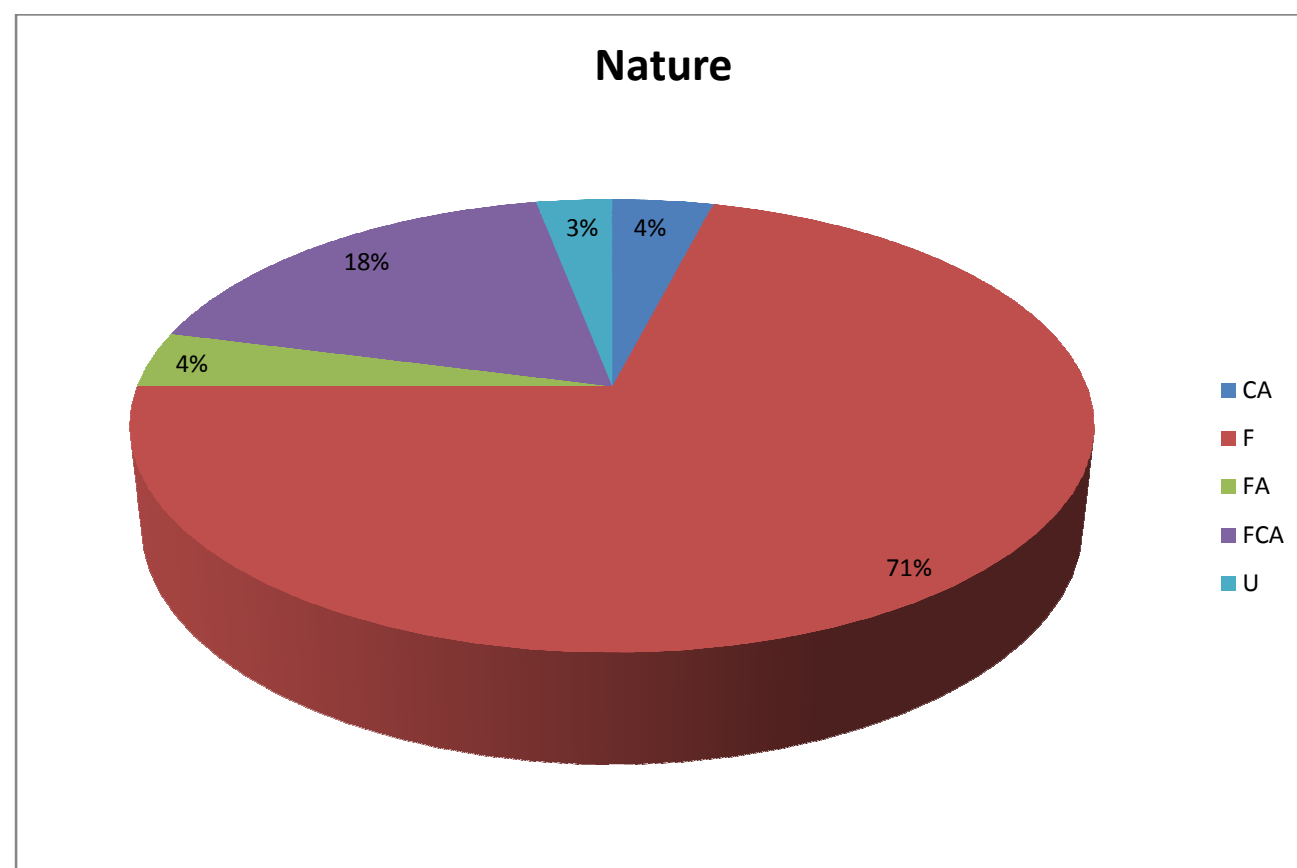
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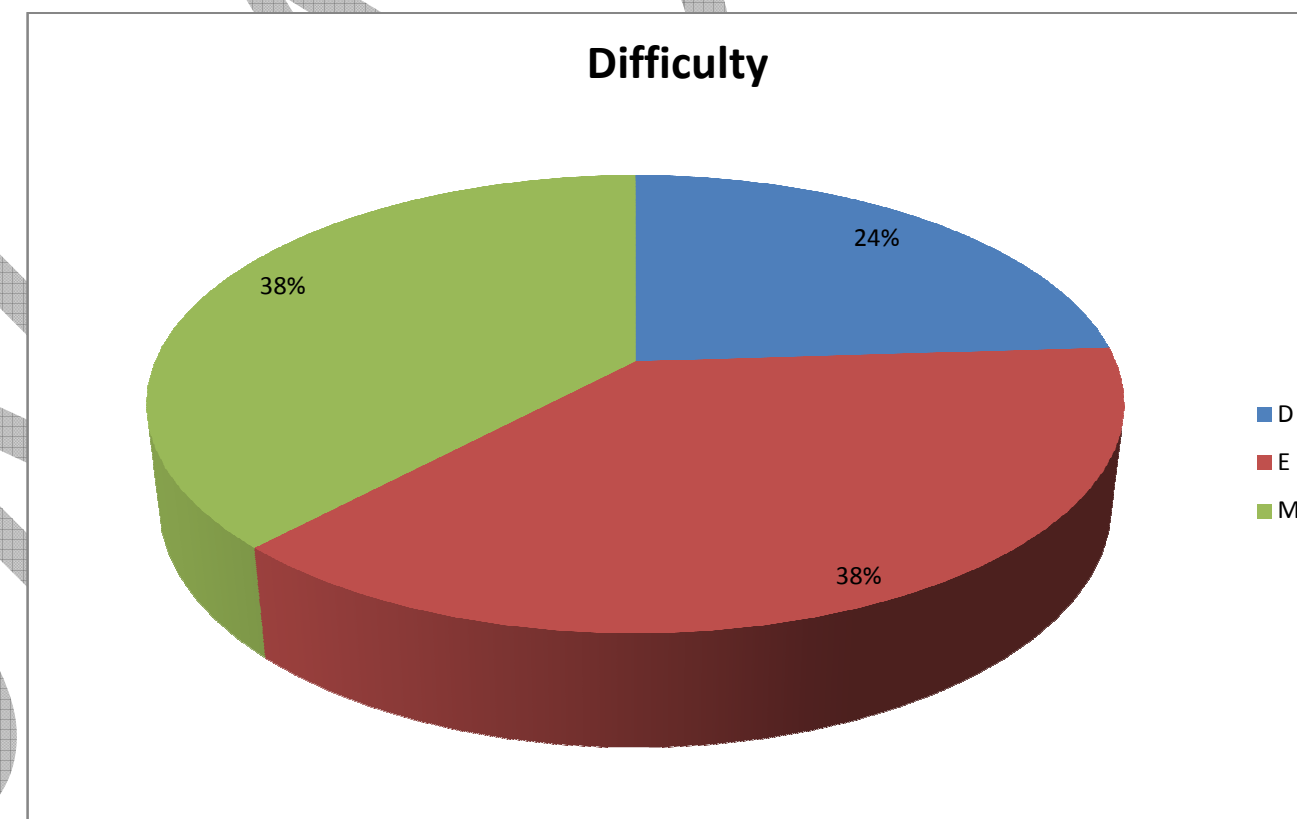
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Nature	Count
CA	4
F	71
FA	4
FCA	18
U	3
Grand Total	100



Difficulty	Count
D	24
E	38
M	38
Grand Total	100

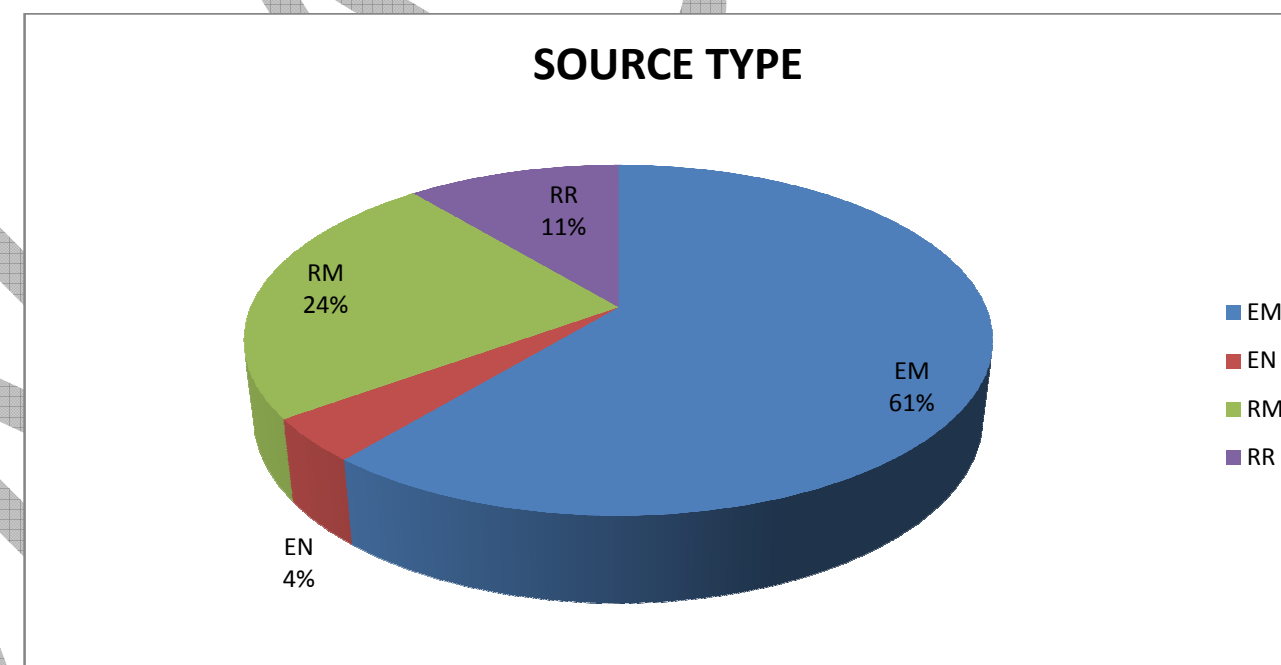
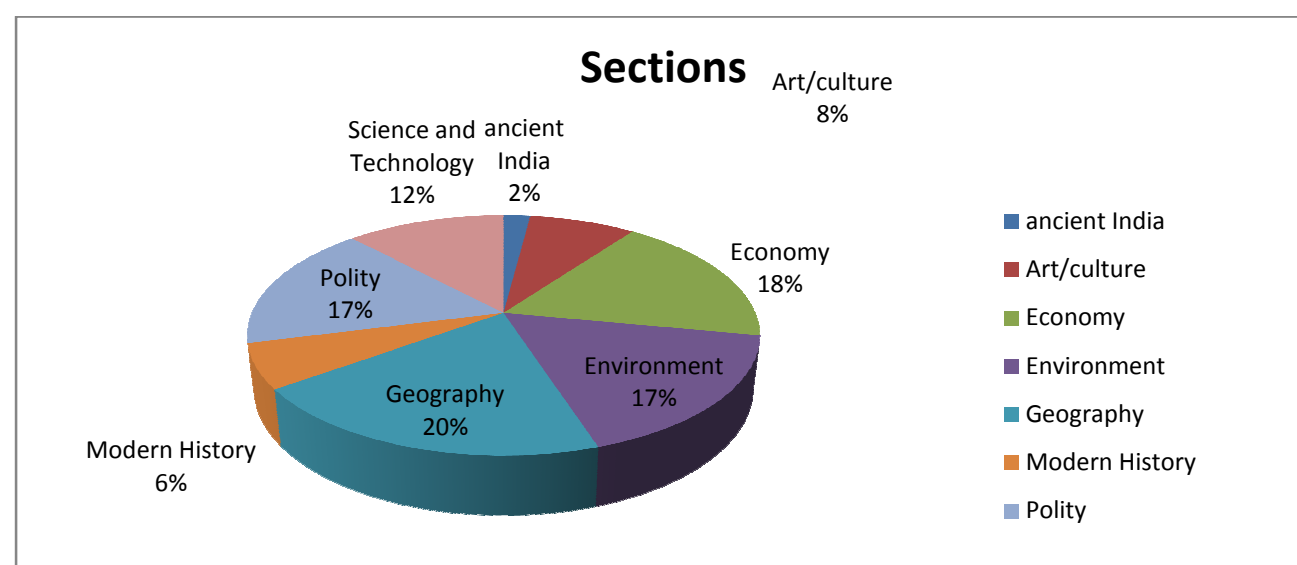


Topic	Count
ancient India	2
Art/culture	8
Economy	18
Environment	17
Geography	20
Modern History	6
Polity	17
Science and Technology	12
Grand Total	100

EM = Essential material like basic books etc.
RM = Reference material
EN = Essential News/Current Affairs
RR = Random Read like random website etc.

E : Easy , M : Medium , D : Difficult

Source Type	Count
EM	61
EN	4
RM	24
RR	11
Grand Total	100



Nature of Question

F: Fundamental, Conventional and conceptual question which is easily available in commonly recommended books. If a current affairs source is mentioned then it indicate that you had one more reason to prepare this topic.

FA: Fundamental Applied question is an analytical question which require information + application of mind. Answer to these question are from commonly recommended books but not so obvious to find.

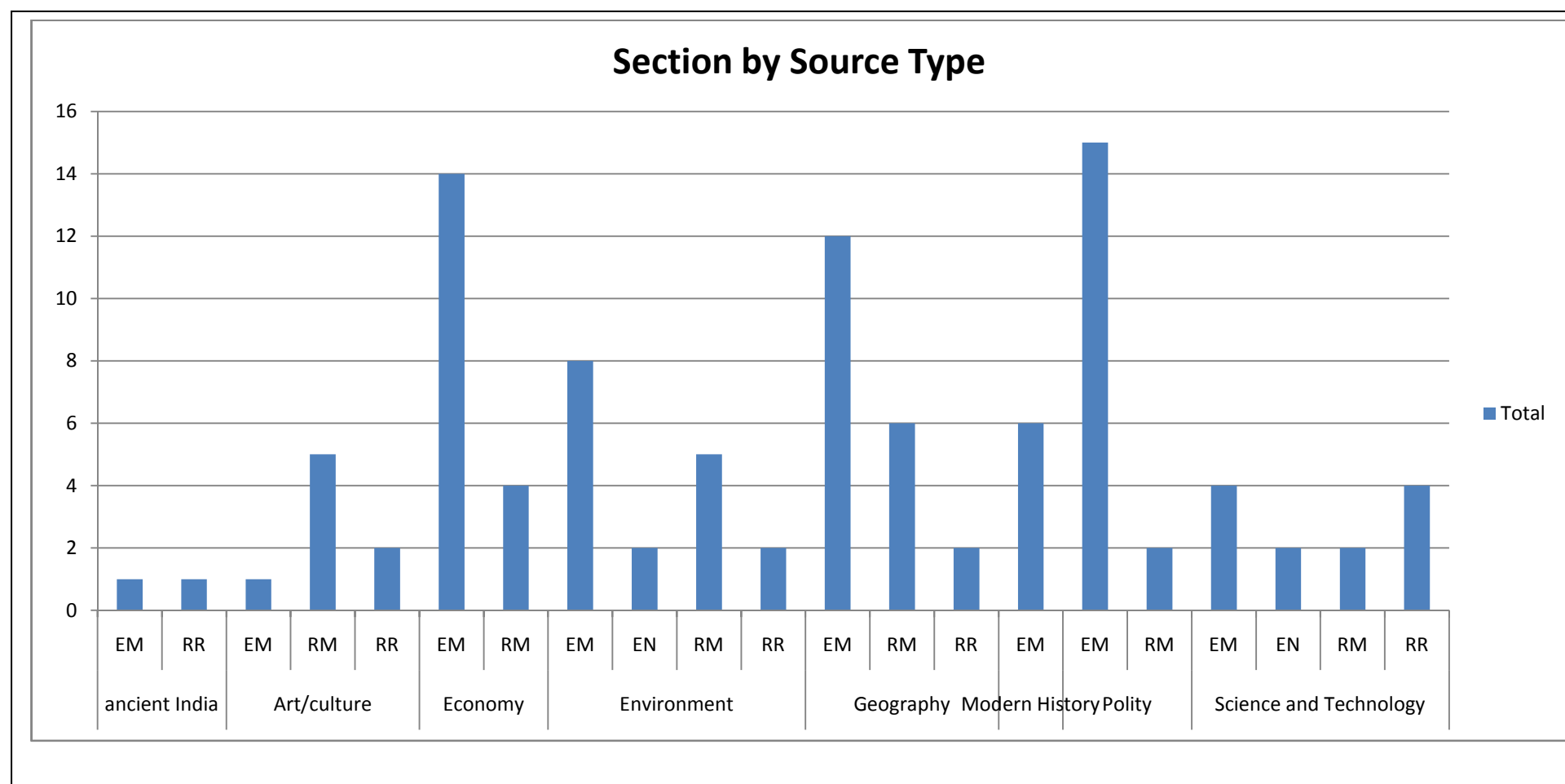
CA: Current affair question which can be answered almost completely using given source alone.

CAA(Current affair Applied): Current affair question which needs information from more than one source to answer AND/OR application of mind(common sense and overall understanding) of aspirant. This is why source for these question may not be answering question completely.

FCA(Fundamental + Current affair): This is a F or FA question supplemented with current affairs or a current affairs question that needs background information for complete answer. Source to these question might not answer question in entirety.

U(unconventional question): unconventional question means the question that is distantly related to syllabus provided by UPSC. It is neither present in even reference sources(in addition to recommended books) nor prominently in news.

Row Labels	Count of Answer
ancient India	2
EM	1
RR	1
Art/culture	8
EM	1
RM	5
RR	2
Economy	18
EM	14
RM	4
Environment	17
EM	8
EN	2
RM	5
RR	2
Geography	20
EM	12
RM	6
RR	2
Modern History	6
EM	6
Polity	17
EM	15
RM	2
Science and Technology	12
EM	4
EN	2
RM	2
RR	4
Grand Total	100



Special Note: For more details & in-depth analysis of any section of General Studies Prelim paper or any other clarification regarding this strategic analysis paper please mail us.

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