

## BARTI-UPSC-RC-MET-2016

### GS - I Answer key with Explanation

Que. No.	Answer	Explanation
1	A	The Government of India constitute the National Investment Fund in 2005, into which the proceeds from disinvestment of Central Public Sector Enterprises are to be channelized. 75% of the annual income of the fund is to be used to finance selected social sector schemes which promote education, health and employment. The residual 25% of the annual income of the fund is to be used to meet capital investment requirement of profitable and revivable CPSEs.
2	D	Rural Infrastructure Development Fund was instituted by NABARD with announcement in the Union budget 1995-96 with the sole objective of giving low cost fund support to state governments.
3	B	The Indira Gandhi prize or the Indira Gandhi Peace Prize or the Indira Gandhi Prize for Peace, Disarmament and Development is the prestigious award accorded annually by India to individuals or organizations in recognition of creative efforts towards promoting international peace and development. The prize carries “cash award” of 2.5 million Indian rupees and a citation.
4	B	Prf. P. C. Mahalanobis, one time member of Planning Commission of India, prepared an economic growth model with which he showed that to achieve a rapid long term rate of growth it would be essential to devote a major part of investment outley to building of basic heavy industries.
5	B	The intensity of the equatorial counter current varies from season to season and from month to month. The strongest seasonal changes occurring in the Atlantic ocean are eastward flow reaches a maximum in the summer and disappears in the spring. Seasonal changes are weaker in Pacific Ocean.
6	A	The Adriatic Sea is body of water separating the Italian Peninsula from the Balcon Peninsula.
7	D	As per Article 245, the extent of laws made by Parliament and by Legislature of states: <ol style="list-style-type: none"><li>1. Subject to provisions of this constitution, Parliament may make law for the whole or any part of territory of India, and the Legislature of the state may make laws for the whole or any part of state.</li><li>2. No law made by Parliament shall be deemed to be invalid on the ground that it would have extra territorial operation.</li></ol>
8	C	Deflation is a continuous fall of prices and due to continuous fall of

prices, procedure become demolished and production is affected. Thus it increases unemployment. Disinflation is good for economy and not affected employment.

- 9        A        Plankton are passively floating in upper waters. Planktons are actively swimming while benthos lead sedentary life upon the sea bottom. Planktons are producers and are present in large number.
- 10       B        To conserve the Amur Falcon species, India had launched the campaign in the year 2013. Amur Falcons are the longest travelling raptors in the world and come to Doyang every year in millions. Naga tribesman used to hunt thousands of Amur Falcons for meat and not for religious practices.
- 11       C        The UNFCCC specifies their Annex I parties (developed nations) for stabilising their gas emissions and not for the Annex II (developing nations).
- 12       D        The key element that lead to variation in the physical and chemical condition of different habitats are temperature, water, light and soil. Along with it the biotic component in the habitat include pathogens, parasites, predators and competitors which interact constantly.
- 13       C        Foreign investment in India ( FDI, FII, ADR, Direct purchase of land, assets ) external commercial borrowing and external assistance are part of capital account while exports are part of current account.
- 14       D        The ‘Sahel’ is an ecoclimatic and bio-geographic zone of transition in Africa between the sahara desert to the North and the Sudanian Savana to the south. Having a semiarid climate, it stretches across the south-central latitude of Northern Africa between the Atlantic Ocean and the red sea.
- 15       C        By area India is a seventh largest country in the world. India lies in both tropical and subtropical region, whereas India acquires about 2.4 percent land area of entire land area of the world and 82.30 degree east is standard used for Indian Standard Time (IST) which passes through Mirzapur in Upper Pradesh.
- 16       C        The August offer provided that no constitution would be adopted without the consent of minorities.
- 17       B        Middle East Respiratory Syndrome (MERS) is viral respiratory disease caused by novel coronavirus (MERSCoV) that was first identified in Saudi Arabia in 2012. Coronaviruses are a large family of viruses that can cause diseases ranging from the common cold to Severe Acute Respiratory Syndrome (SARS).
- 18       D        The bases which are commonly used to neutralise acids are Calcium Hydroxide, Calcium Carbonate and Caustic Soda.
- 19       C        The yellow – throated Bulbul is a species of Bulbul endemic to Southern

Peninsular India. They are found on scrub habitats on steep rocky hills many of which are threatened by granite quarrying. The bird is not cosmopolitan in nature.

- 20 C Abul Kalam Azad assisted by Jawaharlal Nehru and Vallabhai Patel, negotiated with Cabinet Mission on behalf of the Indian National Congress.
- 21 C International Bank for Reconstruction and Development (IBRD), International Monetary Fund (IMF) and General Agreement on Trade and Tariffs (GATT) were born from Bretton Woods Conference.
- 22 C The Rule of Origin is a concept of WTO. It determines the source of product.
- 23 C Magnets are made up of magnetite, minerals discovered around 800 BC in the town of Magnesia. The mineral is called magnetite, which is mainly composed of  $Fe_3O_4$ . Most permanent magnets are mainly made up of ALNICO, an alloy of Aluminium, Nickel and Cobalt.
- 24 A Decomposition is largely an oxygen requiring process. The rate of decomposition is controlled by chemical composition of detritus and climatic factors in particular climatic condition, decomposition rate is slower, if detritus is rich in lignin and chitin and quicker if detritus is rich in nitrogen and water soluble substance like sugars.
- 25 C During ecological succession in the successive seral stages there is changes in the diversity of species of organisms and organisms as well as increase in the total biomass.
- 26 C Tabakat-i-Nasiri was written by Minhajus Siraj. Ziauddin Barani wrote two books Fatawa-i-jahandari and Tarikh-i-Ferozshahi.
- 27 A Constitution of India provides original jurisdiction power to the supreme court is related between the dispute of the Government of India and one or more states; or between the Government of India and any state or states on one side and one more other, or between two or more states .
- 28 D Initially provision of Panchayats were in DPSP of Article 40. Article 40 in landmark 73<sup>rd</sup> constitutional amendment act became more relevant as panchayats got constitutional status. Article 243 (g) and 243 (w) gave powers and privileges to panchayats and municipalities respectively. Time bound elections started .
- 29 B Maintenance or caring expenditure on an asset of plan is type of non-plan expenditure .
- 30 A The term clone is used to describe such morphologically and genetically similar individuals. In plants, the units of vegetative propagation such as runner, rhizomes, sucker, tuber, offset, bulb are capable of giving rise to new offspring. These structure are called vegetative propagules.
- 31 A The term coevolution is used to describe cases where two (or more)

specially reciprocally affect each other's evolution. E.g. an evolutionary change in morphology of an herbivore that eats the plants, which in turn best.

- 32 A Aditya - 1 is India's first dedicated scientific mission to study the sun. This is a low earth orbit (LEO) mission at an altitude of 800 km. It will provide high time cadence sharp images of solar corona in the green and red emission lines.
- 33 C The Black Sea forms in an east west trading elliptical depression which lies between Bulgaria, Georgia, Romania, Russia, Turkey and Ukraine.
- 34 C In a normal good as price increases; demand falls and vice-versa. In a Giffen good, as price increases, demand increases and vice versa.
- 35 B Mansabdari system was introduced in both military system and civil administration.
- 36 C Oak and Pines are confined in Himalayan region of India while Shisham is found in monsoon forest area.
- 37 D All the three above have been accorded Geographical Indication Status.
- 38 B Arunachal Pradesh shares its international border with Bhutan, China and Myanmar. Also Sikkim shares its international border with Bhutan, Nepal and Tibet (China).
- 39 B The grant of iqta did not imply a right to the land but it was just an administrative unit. Iqtas were granted only for the purpose of administration and revenue collection.
- 40 A Eurythermal organism can tolerate and thrive in a wide range of temperature as compared to a vast majority of organisms that are restricted to a narrow range of temperatures which are termed as steno thermal.
- 41 C There was an established tradition of the succession of kingship in Chola kingdom. As per the tradition, the eldest son succeeded the king to the throne. The heir apparent was called Yuvraja.
- 42 A The constitution of India is silent on political accountability of elected representative of panchayat and municipalities.
- 43 D Mangrove trees have been the source of firewood in India since ancient time. They act as a source of timber, fuel and fodder.
- 44 D Rajasthan established first Panchayat Raj in India on 2 October 1959. Rajasthan was followed by Andhra Pradesh in 1959 also. District Planning Committee and Metropolitan Committee submit their report to the state government. State Finance Commission is constituted by Governor after every five years, not before.
- 45 B According to Indian State of Forest Report (ISFR) 2015, Madhya Pradesh has largest forest cover 77,462 Sq. km. in the country followed

by Arunachal Pradesh with forest cover 67,248 Sq. Km. and Chhattisgarh – 55,586 Sq. Km. Mizoram with 88.93 percent of forest cover as a highest forest cover in percentage term, followed by Lakshadweep with 84.56 percent.

- 46 D The 11 points demand of Mahatma Gandhi, before launching the civil disobedient Movement, included to prohibit intoxicants, to change the ratio between the rupee and the sterling, to reduce the rate of land revenue, abolition of salt tax, reduction in the military expenditure, reduction in expenditure civil administration, to impose custom duty on foreign to accept the postal reservation bill, to abolish the CID department, to release all political prisoners and to issue licenses of arms to citizens for self-protection.
- 47 C Cotton textile, coal mining cement, glass etc. industries developed in India during the British Rule but there were a few petty workshops as engineering industries.
- 48 A Commonly shared hatred for Britishers was the only factor that connected the rebels of 1857 to one another. They did not have any political perspective or any common vision for future.
- 49 C The percentage of energy transferred from one trophic level of another is called ecological efficiency. The efficiency of energy transfer one level to another varies from 5 percent to 20 percent depending on the types of organisms and environmental conditions.
- 50 C Neutrinos interact with matter via the weak force. Since they rarely interact, this neutrinos pass through the sun, and even the earth, unhindered.
- 51 C The Song Jana-gana-mana was first sung on 27 December 1911 at Calcutta Session of the Indian National Congress.
- 52 C Maharashtra is famous for devotional dances on the Krishna theme which are called “dindi” and “kalaa”. A vocalist sings to the accompaniment of the “mridanga”. Around them men and women dance and this takes place usually during the Eadashi day of Kartik.
- 53 D The oldest form of classical music is dhrupad. The language of dhrupad used is medieval hindi or brijbhasha. The birth of dhrupad was coincided with bhakti movement of vallabh sampraday and resultantly was devotional in nature. Raja Mansingh, King Of Gwalier and music lover gave the encouragement and introduced many refinements. This came to known as darbari dhrupad. On account of his contribution, he is known as the originator of the dhrupad style that is followed even today.
- 54 C Mahatma Gandhi launched the individual satyagraha to give the expression to Indian people’s strong concurrent political feelings and to give the British Government an opportunity to peacefully accept the concurrent Indian demands.

- 55 A The Pabna present unrest arose in Bengal, where the permanent settlement was imposed. The unrest was caused by efforts of the zamindars to enhance rent beyond legal limits and to prevent the tenants from acquiring occupancy rights under Act X to 1859.
- 56 B The article 48a of the Indian constitution provide that the state shall endeavour to protect and improve the environment and to safeguard the forest and wild life of the country.
- 57 B Total grants are 20 percent but additional 20 percent grants can also be given if government authorities release it.
- 58 D The GST regime is intended to be functional from 1<sup>st</sup>April 2016. GST will have a dual structure ,which mean it have two component – the centre GST and state GST ,both will have the separate powers to legislate and administer their respective taxes .it will replace indirect taxes.
- 59 C Unique identification Authority of India comes under the NITI Aayog .
- 60 D There is no provision of any official national language in the Indian constitution.
- 61 D The Constitution of India mentions in Article-1 that “India that is Bharat shall be a union of states”. There is no mention of the world ‘center’ in our constitution.Union is the set of states, UT’s and acquired areas by India.
- 62 C The current slowdown in the economy of china will reduce the prices of commodities world wide. India also will get benefitted from it as import cost will decrease. Prices of WPI lower down due to decrease in import price. Indian economy is growing as compared to others. So investors get attracted towards India.
- 63 C Eutrophication : harmful algal booms negatively impact the food web by decreasing the amount of nutritious, edible phytoplankton that zooplankton and other primary consumers need to survive. When the cells in the bloom began to die, it can lead to decrease dissolved oxygen level that can be lethal to other aquatic organism and cause fish kills.
- 64 B The Maastricht treaty undertaken to integrate Europe was signed on 7 Feb 1992 by the members of the European community at Maastricht.
- 65 A BRICS member China, Russia, India are the mere largest shareholders , with share of 26.06%,5.9%, 7.5% respectively.
- 66 D Amazon basin is the largest drainage basin in the world account for roughly one forth total river flow of river.
- 67 C Bomdila is in Arunachal Pradesh.Khardung La is a mountain pass located in Ladakh region of the Indian state of Jammu and Kashmir. The Chang La is a high mountain pass in Ladakh,India.

- 68 B Jotedars were rich peasants, who had acquired vast areas of cultivated land in Bengal. They controlled local trade and moneylending in rural areas.
- 69 D India's first community reserve to protect the national aquatic animal, in dangerous Gangatic river Dolphines are coming in WestBengal.
- 70 D Indian rosewood is an erect deciduous tree . it grows to the height of 25 meter and 2-3 meter in diameter.
- 71 A "Sorter Jobs" disease is pulmonary form of anthrax that result from inhalation of spores of bacterium bacillus anthracis in the wool of contaminated sheep.
- 72 B Pir panjal range is group of mountains inthe inner himalayan region , running from east southeast to west northwest across the Indian states of H.P, J&K ,POK, where as aksai chin is part of china plateau.
- 73 A Mycorrhizae are mutualisms formed between fungi and plants roots its very common in nature pines ,oaks, hickories and beech.
- 74 C Kolleru lake was declared as a wildlife sanctuary in November 1999 under India's wildlife protection Act of 1972, and designed a wetland of international importance in November 2002 under the international Ramsar convention.
- 75 A Making the largest investment in biotechnology development sector in the world is not mentioned in the national biotechnology development strategy 2015-2020.
- 76 C The original Antarctic treaty is signed by Argentina, Australia, Belgium, Chile, France, Japan, New Zealand, Norway, Africa, UK, US , Soviet Union in Washington on a December 1959 and entered into force on 23 June 1961.
- 77 D Though the physical factors such as prevailing high pressure, temperature and fluctuating salinity are also responsible for desert formation in ocean, but they are not the only causes.
- 78 C Shimsha and Nouual rivers are tributaries of Kaveri River.
- 79 B The European Union has extended the ban on import on four vegetables – bitter gourd, eggplant, taro plant(arbi), and snake gourd from India by another year despite efforts made by the country to put in place stringent quality control and packaging measures.
- 80 C Thar desert is most densely populated desert in the world , with a population density in the world , with a population density of 83 people per km.
- 81 B The World Economic Outlook (WEO) is a survey conducted and published by the International Monetary Fund. It is published biannually and partly updated two times in a year.

- 82 B Swaccha bharat cess were force from 15 Nov 2015 at rate 0.5% on all services.
- 83 A The idea of a Constituent Assembly for India was put forward for the first time, by Manbendranath Roy in 1934. The Indian National Congress officially demanded for Constituent Assembly in 1935. The British Government accepted Indian demand of Constituent Assembly in 1940. The Constituent Assembly was set up under the Cabinet Mission plan.
- 84 D Apart from anthropogenic activities  $O_3$ ,  $NO_2$ ,  $CO$  are naturally produced. The two major sources of natural ground level ozone and hydrocarbons, which are released by plants and soil, and small amounts of stratospheric ozone, which occasionally migrate down to the earth's surface. Nitrogen Oxides are formed naturally by bacteria in soil and play an important role in plant growth. And carbon monoxide is released by volcanic eruptions.
- 85 D Gram nyayalay act 2008 is active in India except J&K,tribal areas of sixth schedule of Indian constitution and Arunachal Pradesh, Nagaland, Sikkim.
- 86 A Jawaharlal Nehru National Solar Mission was launched in 2010 during Eleventh Plan.
- 87 A  $M_1$  is known as narrow money and  $M_3$  is known as broad money.
- 88 C The international monetary fund has given the yuan a historic vote of confidence by including the Chinese currency in its club of major currencies . the yuan , also known as the renminbi, was added to the IMFS group of international reserve currencies . china had lobbied hard for the currency to be included in list , which at present is made up of just the doller, the euro, the pound and the Japanese yen .
- 89 C In a confederation all the units of state/country are free and sovereign too. The main example is USSR. In a federation all the units of state are autonomous but not sovereign as United State of America.
- 90 D The per capita product directly depends on the production of the nation and it is the best measurement of the economic growth of a country.
- 91 A A bank with a higher capital adequacy ratio is considered to be safer because of its loans go bad. It can make up for it from its net worth.
- 92 B Brazil, South Africa, India and China,called the BASIC countries, appear to have moderated their opposition to discussions on phasing out hydrofluorocarbon(HFCs) as refrigerants.
- 93 A Lok Sabha is composed of representatives of the people chosen by direct election on the basis of the adult suffrage. The maximum strength of the house envisaged by the constitution is 552, which is made up by election of upto 530 members to represent the States, upto 20 members to



represent the Union Territories and not more than two members of the Anglo-Indian Community to be nominated by the President. If, in his/her opinion, that community is not adequately represented in the House.

- 94 B The Finance Commission consists of a, chairman and four other members to be appointed by the president.
- 95 A Secondary cells are usable because it is possible to restore the chemicals present in the cell once it has been used for some time. Button cells are compact dry cells and have long life. The chemicals present in dry cells are spent after the dry cell is used for a long time.
- 96 C Energy Statistics are published by CSO (Central Statistical Organisation).
- 97 D Bharat Stage emission standards, introduced in 2000, are emission standards that have been set up the Central Government to regulate the output of air pollutants from internal combustion engine equipment, including motor vehicles. The different norms are brought into force in accordance with the timeline and standards set up by the central Pollution Control Board which comes under the Ministry of Environment and Forests and Climate Change.
- 98 C Micro units Development and Refinance Agency Bank(MUDRA BANK), is a new institution setup by the Government of India for development of micro units and refinance of MFIs to encourage entrepreneurship in India and provide the funding to the non-corporate small business sector.
- 99 A Currencies of BRICS nations start from R-Reminbi, Rupee, Rubble, Real and Rand.
- 100 B Second statement is incorrect because the International Solar Alliance (ISA) is aimed to bring solar rich 121 tropical countries located fully or partly between the Tropic of Cancer and Capricorn together to tap solar energy.