



NDA I 2017_General Ability

Total Time: 150

Total Marks: 600.0

Solution 1

I **expect** you to be at the party this evening.

Hence, the correct answer is **option C**.

Solution 2

When I met John yesterday, it was the first time I **had seen** him since Christmas.

Hence, the correct answer is **option C**.

Solution 3

He **refused** to listen to my arguments and walked away.

Hence, the correct answer is **option D**.

Solution 4

The flow of blood was so **profuse** that the patient died.

Hence, the correct answer is **option C**.

Solution 5

You have never **told** me about your experiences in America.

Hence, the correct answer is **option B**.

Solution 6

I always felt hungry **as soon as** I heard the dinner bell.

Hence, the correct answer is **option C**.

Solution 7

Although they took every precaution, they could not avoid the accident.

Hence, the correct answer is **option C**.

Solution 8

The ambitious nobleman aspired to marry the king's daughter.

Hence, the correct answer is **option C**.

Solution 9

The dictator of that country was a monster of wickedness, insatiable in his lust for blood and plunder.

Hence, the correct answer is **option C**.

Solution 10

Please don't give me any more, I have had enough.

Hence, the correct answer is **option D**.

Solution 11

My first lecture in the classroom was a success.

Explanation :
The synonym of success would be disaster.

Hence, the correct answer is **option A**.

Solution 12

It was indeed effortless to cross streets in New York.

Explanation :
The synonym of arduous is difficult or risky.

Hence, the correct answer is **option B**.

Solution 13

Unlike his brother, he is irritable.

Explanation :
The synonym of affable is pleasant or polite.

Hence, the correct answer is **option C**.

Solution 14

The birth of his child decidedly proved to be an ominous event in his life.

Explanation :

The synonym of auspicious is fortunate.

Hence, the correct answer is **option B**.

Solution 15

The witness denied word for word the statement of the victim.

Explanation :

The synonym of corroborated is authentic.

Hence, the correct answer is **option C**.

Solution 16

It is unwise to cut off diplomatic relations with a neighbouring country over small matters.

Explanation :

The antonym of severe is unite or join.

Hence, the correct answer is **option C**.

Solution 17

Bad tendencies are to be opposed by good ones until all that is evil disappears.

Explanation :

The antonym of countered is same or equal.

Hence, the correct answer is **option A**.

Solution 18

The police fired without distinguishing at the crowd, killing many innocent women and children.

Explanation :

The antonym of indiscriminately is carefully.

Hence, the correct answer is **option B**.

Solution 19

Businessmen who lack sharpness cannot be expected to be very successful.

Explanation :

The antonym of acumen is stupidity or insensitivity

Hence, the correct answer is **option B**.

Solution 20

His frank opinions have won him many friends.

Explanation :

The antonym of candid is biased or prejudiced.

Hence, the correct answer is **option D**.

Solution 21

I disliked him not so much for his meanness as for his dishonesty.

Hence, the correct answer is **option A**.

Solution 22

He preferred death to imprisonment.

Hence, the correct answer is **option B**.

Solution 23

They kept the idea secret.

Hence, the correct answer is **option B**.

Solution 24

He ought not to have told me your secret, but he did.

Hence, the correct answer is **option B**.

Solution 25

If I don't know the meaning of a word, I look it up in the dictionary.

Hence, the correct answer is **option C**.

Solution 26

Mr. and Mrs. Rao stay at home every evening.

Hence, the correct answer is **option A**.

Solution 27

When we saw him last, he was running to catch a bus.

Hence, the correct answer is **option C**.

Solution 28

She **cut a sorry figure** in her first performance on the stage.

Hence, the correct answer is **option C**.

Solution 29

Last evening I went to the optician and bought **a pair of spectacles**.

Hence, the correct answer is **option C**.

Solution 30

I would like **to avail myself of** a fifteen days' holiday this summer.

Hence, the correct answer is **option B**.

Solution 31

If I will be is the incorrect option in the given sentence.

Explanation :

I can fly if I was a bird.

Hence, the correct answer is **option B**.

Solution 32

There is **no error** in the given statement.

Hence, the correct answer is **option D**.

Solution 33

I have is the incorrect option in the given sentence.

Explanation :

Never have I seen such a town.

Hence, the correct answer is **option B**.

Solution 34

By bicycle is the incorrect option in the given sentence.

Explanation :

He goes to his office riding his bicycle everyday.

Hence, the correct answer is **option B**.

Solution 35

There is **no error** in the given sentence.

Explanation :

Far from being appreciated, his conduct was discussed and sharply commented.

Hence, the correct answer is **option D**.

Solution 36

The author had roused himself as he wanted to **know the name of the station**.

Hence, the correct answer is **option C**.

Solution 37

The engine stopped because **one of the wheels was broken**.

Hence, the correct answer is **option B**.

Solution 38

The engine is compared to a fallen horse because **it could make no effort to stand upright**.

Hence, the correct answer is **option C**.

Solution 39

A long ridge is the most appropriate description of the area in which the narrator had been moving.

Hence, the correct answer is **option D**.

Solution 40

'I had been cutting steps continuously for two hours' suggests that ***he had to cut the steps out of snow before climbing up which was necessarily a slow process***.

Hence, the correct answer is **option B**.

Solution 41

'It was turning more into a grim struggle' would mean that ***after the long exertion he was feeling so weak that any further climbing meant a hard struggle with the forces of nature***.

Hence, the correct answer is **option A**.

Solution 42

The proper sequence is ***P, Q, S, R***.

Explanation :

Farm workers spend most of their time outside.

Hence, the correct answer is **option C**.

Solution 43

The proper sequence is **P, Q, S, R.**

Explanation :

He shuffled the papers together in a drawer.

Hence, the correct answer is **option A.**

Solution 44

The proper sequence is **P, R, Q, S.**

Explanation :

Do you think this soap will shrink woolen clothes?

Hence, the correct answer is **option B.**

Solution 45

The proper sequence is **P, Q, S, R.**

Explanation :

We advised the hijackers to surrender themselves to the police.

Hence, the correct answer is **option C.**

Solution 46

The proper sequence is **P, S, Q, R.**

Explanation :

Sports cars with noisy exhausts appeal to some motorists only.

Hence, the correct answer is **option B.**

Solution 47

The proper sequence is **P, R, Q, S.**

Explanation :

He planned the entire strategy of operation almost single-handed.

Hence, the correct answer is **option B.**

Solution 48

The proper sequence is **P, Q, R, S.**

Explanation :

She has more intelligence than we suspected her to possess.

Hence, the correct answer is **option D.**

Solution 49

The proper sequence is **P, Q, S, R.**

Explanation :

They should implant sound principles in the minds of young children.

Hence, the correct answer is **option B.**

Solution 50

The proper sequence is **Q, P, R, S.**

Explanation :

I learnt swimming at the age of 15 when I was a student of class X in a government school.

Hence, the correct answer is **option C.**

Solution 51

The conversion of low voltage alternating current to high voltage alternating current (or vice versa) is done by a transformer.

Hence, the correct answer is option C.

Solution 52

During hot summers in deserts, a phenomenon of optical illusion, known as mirage, can occur. It is based on the principle of total internal reflection. During hot summers, the temperature of the sand gets very high. This makes the air just in the contact with the sand more hotter than the air above it. As a result, the refractive index of the air in contact with the sand becomes lower than that of the air above it. The sunlight thus passes through a medium of higher refractive index to that of a lower refractive index. At a particular angle, when the angle of incidence becomes greater than the critical angle, total internal reflection occurs, and gives the appearance of a watery surface from far off distance.

Hence, the correct answer is option D.

Solution 53

Earth's magnetic field becomes horizontal at magnetic equator. It is an imaginary line on the Earth's surface, near the equator, where magnetic field line is horizontal or parallel to the Earth's surface, and there is no magnetic dip at any point on this line.

Hence, the correct answer is option B.

Solution 54

Initial speed of car, $u = 0$

Final speed of car, $v = 8 \text{ m/s}$

Time = 4 s

Acceleration = Change in velocity / Time interval

$$a = (v - u)/t$$

$$a = 8/4 = 2 \text{ m/s}^2 \text{ (Statement 1 is correct)}$$

$$v^2 - u^2 = 2as$$

$$s = 64/4 = 16 \text{ m (Statement 2 is correct)}$$

$$\text{Average speed} = 16/4 = 4 \text{ m/s (Statement 3 is correct)}$$

Hence, the correct answer is option A.

Solution 55

$$\text{Mach number, } M = \frac{\text{Speed of a body in a fluid}}{\text{Speed of a body in that fluid}}$$

If $M > 1 \Rightarrow$ Speed of a body in the fluid $>$ Speed of sound in the fluid

Thus, the speed of the body is said to be supersonic.

Hence, the correct answer is option A.

Solution 56

All the given molecules are the allotropes of carbon. In diamond, each carbon atom is linked with four other carbon atoms in a tetrahedral form, giving it a crystalline structure. In graphite, each carbon atom is linked with three other Carbon atoms to form a trigonal shape. This gives graphite a sheet-like structure. In fullerenes, 30-900 atoms of carbon are linked together to make a hollow, cage-like structure.

Hence, the correct answer is option C.

Solution 57

Temporary hardness in water occurs due to presence of soluble hydrogen carbonates (or bicarbonates) of calcium and magnesium. Presence of calcium and magnesium sulphates or chlorides result in permanent hardness.

Hence, the correct answer is option A.

Solution 58

The hairs of the nettle leaves contain formic acid or methanoic acid. When these leaves are touched by bare skin, their hairs act as needles and inject methanoic acid into the skin. Due to this, a burning sensation and pain is caused.

Hence, the correct answer is option B.

Solution 59

Among the given alkali metals, lithium is the least reactive with water, while cesium has the highest reactivity. The reaction of lithium with water is relatively slow and gentle. As its density is roughly half that of water, so it floats

on the water surface, gently fizzing and giving off hydrogen.

Hence, the correct answer is option A.

Solution 60

Rutherford's alpha-particle-scattering experiment was responsible for the discovery of nucleus.

Hence, the correct answer is option C.

Solution 61

Glass is a non-crystalline amorphous solid.

Hence, the correct answer is option C.

Solution 62

Cell wall of any fungus differs from plants due to its chemical composition. While plant cell wall is composed of cellulose, the cell wall of a fungus is made up of chitin.

Hence, the correct answer is option B.

Solution 63

Sleeping sickness is a vector-borne disease, caused by a protozoan parasite, *Trypanosoma*. This parasite is transmitted to humans by the bites of tsetse fly.

Hence, the correct answer is option B.

Solution 64

The agency responsible for enforcing laws on food security in India is **Food Safety and Standards Authority of India, or FSSAI**.

Explanation :

Food Safety and Standards Authority of India (FSSAI) is an independent body established under the Ministry of Health & Family Welfare, Government of India

Hence, the correct answer is **option C**.

Solution 65

In dengue fever, the count of platelet cells gets reduced.

Hence, the correct answer is option B.

Solution 66

The enzyme responsible for changing plasma protein angiotensinogen into angiotensin is renin. It is a proteolytic enzyme synthesised and secreted by juxtaglomerular cells of the kidney.

Hence, the correct answer is option A.

Solution 67

Red blood cells lack cell nucleus and most of the cell organelles, so as to accommodate maximum space for haemoglobin.

Hence, the correct answer is option A.

Solution 68

According to the Census 2011, the density of population is lowest in **Mizoram**.

Explanation :

The density of population in India is 382 persons per square kilometer according to 2011 census. The density of population in Mizoram is 52 persons per square kilometer according to 2011 census.

Hence, the correct answer is **option D**.

Solution 69

Headquarters of the World Meteorological Organization are located in **Geneva**.

Explanation :

The World Meteorological Organization (WMO) is an agency of the United Nations. It studies the actions of the Earth's atmosphere, its interaction with the oceans, climate and distribution of water resources.

Hence, the correct answer is **option B**.

Solution 70

The correct code is **A-4, B-3, C-2, D-1**.

Explanation :

Bongaigaon Petrochemicals is a state-owned petroleum refinery company in India. It was incorporated on February 20, 1974 by the government of India. Coimbatore is a home to a large number of small, medium and large textile mills in India.

Pinjore is known for Hindustan Machine Tools factory.

Hence, the correct answer is **option A**.

Solution 71

The correct statement are **1, 2, and 4**.

Explanation :

The ideal temperature ranges between 23 °C to 28 °C with 60–80 inches or 1.5–2.0 m of rainfall followed by a dry spell of 2 to 3 months. These conditions prevail in the tropical region of the south Indian hills, leading to flourishing of

coffee plantations in large numbers.

Hence, the correct answer is **option D**.

Solution 72

Dr. Urjit Patel, who has been appointed recently as the Governor of Reserve Bank of India, was holding the position of **Deputy Governor of Reserve Bank of India** prior to this appointment

Explanation :

He is serving as the 24th Governor of the RBI. He succeeded Raghuram Rajan on 4th September, 2016.

Hence, the correct answer is **option B**.

Solution 73

Arvind Subramanian is not the Governor of any Indian State.

Explanation :

He is the current Chief Economic Adviser to the Government of India. He has taken charge of the position on 16th October 2014 succeeding Raghuram Rajan.

Hence, the correct answer is **option D**.

Solution 74

Pakistan was defeated by India to lift the Women's Twenty-20 Asia Cup in 2016.

Explanation :

The finals took place on 4th December, 2016 between India and Pakistan. India scored 121 in 20 overs with 5 wickets down, whereas Pakistan was able to score only 10 in 20 overs with 6 wickets down. India won the tournament beating Pakistan by 17 runs. The series took place in Thailand.

Hence, the correct answer is **option C**.

Solution 75

Guwahati was the venue of 2nd BRICS Youth Summit of the Ministers, Officials and Youth Delegations.

Explanation :

The Second BRICS Youth Summit took place in Guwahati from 1st to 3rd July, 2016. The First BRICS Youth Summit was held in Russia in July 2015. The summit focussed on skill development and entrepreneurship, youth participation in governance, etc.

Hence, the correct answer is **option D**.

Solution 76

Maharashtra has recently proposed to frame the first Internal Security Act to

deal with the challenges of terrorism, insurgency, communalism and caste violence.

Explanation :

It gives emphasis on maintaining law and order, fight against terrorism and caste related violence in the state. There will be three years of jail and fine for those threatening the state's security.

Hence, the correct answer is **option A**.

Solution 77

World Humanitarian Day is being observed every year on **19th August**.

Explanation :

World Humanitarian Day is dedicated to recognize the humanitarian staff and those who have lost their lives working for humanitarian causes like assisting people who needed materialistic and logical help.

Hence, the correct answer is **option B**.

Solution 78

Surge pricing takes place when a service provider **raises the price of its product or service as demand outstrips supply**.

Explanation :

Surge pricing is a pricing strategy in which businesses set variable prices for products or service based on current market demands.

Hence, the correct answer is **option A**.

Solution 79

The correct code is **1 and 2**.

A political party claim the status of a national party **when it secures at least six percent (6%) of the valid votes polled in any four or more states, at a general election to the House of the People or to the State Legislative Assembly and It wins at least four seats in the House of the People from any State or States or wins atleast two percent (2%) seats in the House of the People (i.e., 11 seats in the existing House having 543 members), and these members are elected from at least three different States**.

Explanation :

Political parties that contest elections over large numbers of states and across local, state and the national levels are called national political parties. Their presence is not restricted in few states. Rather they are present in almost all the states of the country. In most of the states, these could be the one of the biggest political parties too. They have an edge over the regional parties with regards to the resources and workers. At present, Indian National Congress and Bharatia Janta Party are the two biggest national political parties in India.

Hence, the correct answer is **option C**.

Solution 80

In its emphasis on enhancing human capabilities, **delivery of public service** does not figure in the Twelfth Five-Year Plan.

Explanation :

The Planning Commission of India formulates India's Five Year Plans. It was set up on 15th March, 1950 with Jawaharlal Nehru as the Chairman. The Five Year Plans have some general as well specific goals to be achieved within a specific period of time. The Twelfth Five Year Plan was launched in 2012 to 2017.

Hence, the correct answer is **option C**.

Solution 81

Agricultural growth of 5% is not a target of the 12th Five-Year Plan.

Explanation :

The Planning Commission of India formulates India's Five Year Plans. It was set up on 15th March, 1950 with Jawaharlal Nehru as the Chairman. The Five Year Plans have some general as well specific goals to be achieved within a specific period of time. The Twelfth Five Year Plan was launched in 2012 to 2017.

Hence, the correct answer is **option B**.

Solution 82

The specific heat is the amount of heat per unit mass required to raise the temperature by one degree Celsius or it can be defined as the amount of heat required to raise the temperature of a substance by 1 degree is called its specific heat capacity.

Hence, the correct answer is option B.

Solution 83

The amount of heat required to convert a liquid into a gas at constant temperature and pressure is known as latent heat of vapourization.

Hence, the correct answer is option C.

Solution 84

From the given figure, phase of the oscillating particle is same at $t = 3$ s and $t = 7$ s as the particle is crossing the mean position in the same direction at these two instances.

Solution 85

Hypermetropia can be treated by the use of a convex lens; presbyopia can be treated by using a bifocal lens; myopia can be treated by the use of a concave lens; and cataract can be treated only through surgical procedure.

Hence, the correct answer is option A.

Solution 86

Let the length (circumference) of the loop be l . As we know, a diameter divides a circle in two equal halves. Thus the length of each divided part will become $l/2$. As a result, the resistance of each part will also become half of the original resistance (as $R \propto l$).

Hence, the correct answer is option B.

Solution 87

The strength of the magnetic field produced in a current carrying solenoid is directly proportional to the number of turns in the coil. So, if the number of turns per unit length is increased by $2n$, the value of the magnetic field produced will also become $2B$.

Hence, the correct answer is option B.

Solution 88

The magnification of an optical microscope is inversely proportional to the focal length of the eye piece. Thus the magnification will decrease with an increase in the focal length of the eye piece of the microscope.

Hence, the correct answer is option D.

Solution 89

Two liquids, forming a homogenous mixture, can be separated using distillation process. It is a physical process in which the components of a liquid mixture are separated on the basis of the differences in their volatilities.

Hence, the correct answer is option C.

Solution 90

Carbon is known to form the highest number of compounds, owing to its tetravalent nature and catenation properties.

Hence, the correct answer is option D.

Solution 91

Out of the given alternatives, iron is known to corrode rapidly in the presence of moist air. The process of corrosion of iron is also known as rusting.

Hence, the correct answer is option B.

Solution 92

Mass of the solute (salt) = 20 g
Mass of the solvent (water) = 180 g
Total mass of the solution = 20 + 180 = 200 g

Mass percentage of salt in the solution =

$$\frac{\text{Mass of the salt}}{\text{Total mass of the solution}} \times 100 = \frac{20}{200} \times 100$$

$$= 10\%$$

Hence, the correct answer is option C.

Solution 93

The valency of an element depends upon the total number of electrons in the outer shell of an atom.

Hence, the correct answer is option D.

Solution 94

Argon gas, because of its unreactive nature, is used to fill the light bulbs, so as to increase the life of tungsten filament in the bulb.

Neon lights are used for advertising display.

Ionised krypton gas is used to make light bulbs with brilliant white light that are used in airport-landing lights and in light-houses.

Xenon emits an instant, intense light when present in discharge tubes. Due to this property it is utilised in high-speed electronic flash bulbs used by photographers.

Hence, the correct answer is option D.

Solution 95

Cone cells are the photoreceptor cells that help in colour vision in the human eyes.

Hence, the correct answer is option B.

Solution 96

Not all proteins are enzymatic in nature. Enzymes belong to a specific category of proteins that have ability to catalyse the biochemical reactions due to their structural conformation. Thus it is correct to state that most of the enzymes are proteinaceous in nature, but vice versa is not true.

Hence, the correct answer is option A.

Solution 97

Sugarcane is cultivated in India to obtain sucrose. The sucrose thus obtained is used in the manufacturing of sugar.

Hence, the correct answer is option D.

Solution 98

The colourful part of the Sunflower or Marigold plant is not a flower, but an inflorescence. It is a special type of inflorescence (called capitulum) in which flowers do not have pedicels, and all the flowers are clustered together on the

tip of an extended peduncle.

Hence, the correct answer is option B.

Solution 99

The correct code is **A-4, B-3, C-2, D-1.**

Explanation :

Odisha (44%) is the largest producing state of manganese, Rajasthan (80%) is the largest producing state of gypsum, Karnataka (8%) is one of the leading producing state of limestone and Uttarakhand (20%) is one of the leading producing state of Magnesite.

Hence, the correct answer is **option D.**

Solution 100

The correct sequence of tiger reserves situated from North to Sout are **Corbett – Sariska – Simlipal – Periyar.**

Explanation :

The Jim Corbett National Park is situated in Uttarakhand, The Sariska Tiger Resere is situated in Rajasthan, the Simlipal National park is located in Odisha and lastly, the Periyar National Park is located in Kerala.

Hence, the correct answer is **option C.**

Solution 101

The correct code is **1, 2 and 3.**

Explanation :

The phenomenon of monsoon refers to the seasonal reversal of winds. The offshore winds that blow from north-east direction are reversed into onshore south western winds. This phenomenon is based upon differential heating of land and ocean bodies. During summer in the Indian subcontinent, the large landmass gets heated up more rapidly than the neighbouring seas. As a result, the air above land expands and rises up. The moisture laden winds arrive on the western coast of India from the south western side and cause heavy rainfall on the windward side of the Western Ghats. The leeward side, however, receives little rain. Further rain occurs in the northern plains and north-east parts of India with the branching of the monsoon. The monsoon is also aided by the Inter Tropical Convergence Zone or monsoon trough near the equator where winds from northern and southern hemisphere merge. The landmass of the Indian subcontinent cools up around September with the sun retreating south. The ocean bodies, which lose heat slowly, retain the summer heat. The cooler high pressure air moves towards the low pressure over the ocean and causes the retreating north-east monsoon. It mainly causes rainfall along the eastern coast of India.

Hence, the correct answer is **option B.**

Solution 102

The correct code is **A-4, B-3, C-1, D-2**.

Explanation :

Kerala and Karnataka Coast experiences monsoon with short dry season, Arunachal Pradesh experiences cold humid winter with short summer, Uttar Pradesh and Bihar experiences monsoon with dry winter and Tamil Nadu Coast experiences monsoon with dry summer.

Hence, the correct answer is **option A**.

Solution 103

Ganga does not originate from across the Himalayas.

Explanation :

The Ganga flows through Bangladesh and India. It rises in the western Himalayas in Uttarakhand and flows south and east through the Northern plains. After entering West Bengal it divides into the Hoogly River and Padma River in Bangladesh. Gangotri glacier is the primary source of river Ganga.

Hence, the correct answer is **option C**.

Solution 104

The Headquarters of Eastern Railway Zone of Indian Railway are located at **Kolkata**.

Explanation :

It is among the 16 zones and one of the largest zones of the Indian Railways. It comprises four divisions: Howrah, Malda, Sealdah, and Asansol. Each division is headed by a Divisional Railway Manager.

Hence, the correct answer is **option B**.

Solution 105

United States of America is the largest trading partner of India in external trade for the year 2015-2016.

Explanation :

The fifteen largest trading partners of India represent 59.37% of total trade by India. These figures include trade in goods and commodities. India's largest trading partner is USA with their total trade (sum of imports and exports) of 62 billion US dollars, i.e export of 40 billion US dollar and import 22 billion US dollars.

Hence, the correct answer is **option A**.

Solution 106

$$R_1 = 10 \text{ cm} = \frac{10}{100} \text{ m}$$

$$R_2 = -20 \text{ cm} = \frac{-20}{100} \text{ m}$$

$$n = 1.5$$

Using Lens Maker's Formula, we have

$$P = (n - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

$$P = (1.5 - 1) \left(\frac{100}{10} + \frac{100}{20} \right) = 0.5 \times \frac{300}{20} = +7.5 \text{ D}$$

Hence, the correct answer is option A.

Solution 107

$$\text{Time period of a pendulum} = 2\pi\sqrt{\frac{L}{g}}$$

We know metals expands on increasing its temperature. Thus, the length of the pendulum will increase when the temperature of the room in which the simple pendulum is placed increases by 30°C. So, the time period will increase by a slight amount.

Hence, the correct answer is option A.

Solution 108

Stress has the same SI unit as that of pressure, which is pascal (Pa).

Hence, the correct answer is option B.

Solution 109

Electric insulators do not allow the passage of electric current through them, as their electrons can not flow freely. This makes them bad conductors of electricity.

Hence, the correct answer is option B.

Solution 110

Factors which affect the resistance of a cylindrical resistor are the length of the resistor, its cross sectional area, and the resistivity of the material used in the resistor. The current passing through it has no effect on its resistance.

Hence, the correct answer is option A.

Solution 111

Out of the aforementioned statement given in the below options, "**He wrote his magnum opus Amuktamalyada in Sanskrit**" is the incorrect statement.

Explanation :

He wrote his magnum opus Amuktamalyada in Telegu.

Hence, the correct answer is **option D**.

Solution 112

The correct code is **A-4, B-3, C-1, D-2**.

Explanation :

The 52nd amendment to the Constitution added the Tenth Schedule which laid down the process by which legislators may be disqualified on grounds of defection.

The Constitutional (73rd Amendment) Act 1992 came into force to provide constitutional status to the Panchayati Raj institutions.

The Sixty-first Amendment' of the Constitution of India, officially known as The Constitution (Sixty-first Amendment) Act, 1988, lowered the voting age of elections to the Lok Sabha and to the Legislative Assemblies of States from 21 years to 18 years.

86th amendment act 2006 "The State shall provide free and compulsory education to all children of the age of six to fourteen years in such manner as the State may, by law, determine"

Hence, the correct answer is **option B**.

Solution 113

The rumour that the British had mixed the bone dust of cows and pigs into the flour being sold in the market was not a cause of the Revolt of 1857.

Explanation :

The introduction of enfield rifles in the army was the immediate cause because to load the rifle, sepoy had to bite the cartridge open to release the powder. The grease used on these cartridges was rumoured to be made of beef and pork which angered the hindu and the muslims in the army.

Hence, the correct answer is **option A**.

Solution 114

All internal threats were to be handled by the ally alone, with no help from the British was not a feature of the Subsidiary Alliance of Lord Wellesley.

Explanation :

According to this system, every ruler in India had to accept to pay a subsidy to the British for the maintenance of British army. In return, British would protect them from their enemies which gave British enormous expansion.

Hence, the correct answer is **option B**.

Solution 115

The correct code is **A-2, B-1, C-4, D-3.**

Explanation :

Petroleum is found in Lakwa which is in Assam, copper is found in Malanjkhand which is in Madhya Pradesh, coal is found in Kalakot which is in Jammu and Kashmir and lastly, zinc is found in Zawar which is in Rajasthan.

Hence, the correct answer is **option C.**

Solution 116

The correct code is **1, 2, 3, 4.**

Explanation :

Coral reefs are a ridge of rock in the sea formed by the growth and deposit of coral. Major coral reefs in India are Gulf of Mannar, Palk bay, Gulf of Kutch, Andaman and Nicobar Islands and the Lakshadweep islands.

Hence, the correct answer is **option D.**

Solution 117

Dhanbad which is located in Jamshedpur does not have cotton-textile industries.

Explanation :

Dhanbad has some of the largest coal mines in India and is also known as the Coal Capital of India.

Hence, the correct answer is **option D.**

Solution 118

Jharkhand does not have the Headquarters of any Railway Zone.

Explanation :

Jharkhand falls under the East Central Railway Zone and it is one of the 17 railway zones in India. It's headquarters is in Hajipur which is located in Bihar.

Hence, the correct answer is **option A.**

Solution 119

When a rod is rubbed with wool, the wool loses some electrons as the electrons in the wool are loosely bound as compared to those in the rod. These electrons are gained by the rod, and due to excess of electrons, it gets negatively charged. Wool, on the other hand, acquires positive charge as it becomes deficient of electrons.

Hence, the correct answer is option D.

Solution 120

The relation between frequency f and angular frequency ω is

$$\omega = 2\pi f$$

Hence, the correct answer is option B.

Solution 121

We know that the relation between Celsius and Kelvin can be expressed as:

$$1^\circ\text{C} = \text{K} - 273.15$$

And the relation between Celsius and Fahrenheit can be expressed as:

$$1^\circ\text{C} = \frac{5}{9}(\text{F} - 32)$$

$$\text{This makes, } \text{K} - 273.15 = \frac{5}{9}(\text{F} - 32)$$

Now as given in the question, readings in both Kelvin and Fahrenheit thermometer are equal, so we can write the above equation as:

$$\text{K} - 273.15 = \frac{5}{9}(\text{K} - 32)$$

$$\text{K} - 273.15 = \frac{5}{9}\text{K} - 17.78$$

$$\text{K} - \frac{5}{9}\text{K} = 273.15 - 17.78$$

$$\frac{4}{9}\text{K} = 255.37$$

$$\text{K} = 255.37 \times \frac{9}{4} = 574.59$$

So, at 574.59 Kelvin, the Fahrenheit temperature will be 574.59 °F.

The corresponding reading in a Celsius thermometer will be = 574.59 - 273.15 = 301.44 °C.

Hence, the correct answer is option B.

Solution 122

Since the cut-off wavelength (λ) for X-rays is related to the potential difference (V) applied to an X-ray tube as

$$\lambda \propto \frac{1}{V}$$

Thus, when the potential difference applied to an X-ray tube is doubled while keeping the separation between the filament and the target as same, then the cut-off wavelength gets halved.

Hence, the correct answer is option C.

Solution 123

The quantity G is a universal constant, the value of which is $6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$.

Hence, the correct answer is option D.

Solution 124

It gets difficult to measure the coefficient of expansion of a liquid than solid because their containers also expand when heated.

Hence, the correct answer is option D.

Solution 125

Radon is a naturally occurring, radioactive noble gas, which is colourless, odourless, and tasteless in nature.

Hence, the correct answer is option A.

Solution 126

The chemical name of baking soda is sodium bicarbonate, and its chemical formula is NaHCO_3 .

Hence, the correct answer is option B.

Solution 127

The pencil lead is made up of graphite, which is an allotrope of carbon element.

Hence, the correct answer is option C.

Solution 128

***Disclaimer : All the options provided are incorrect.**

Bhagwati Charan Vohra is the author of the book "Philosophy of the Bomb".

Explanation :

"Philosophy of the Bomb" was a strong rebuttal to an article by Mr Gandhi titled 'Cult of the Bomb' that criticised revolutionary activities. He was a close friend of Bhagat Singh.

Hence, the correct answer to this question is **none of the options** provided.

***Disclaimer : All the options provided are incorrect.**

Solution 129

Out of the aforementioned statements given in the options, "***It's leader Surya Sen had been a lawyer in Dhaka before joining the group***" is the incorrect statement regarding Chittagong group.

Explanation :

Sen was a school teacher by profession in Dhaka and was popularly called as Master Da.

Hence, the correct answer is **option B**.

Solution 130

It was marked by the emergence of parallel governments in different parts of India was a significant feature of the Quit India Movement.

Explanation :

During quit India movement, 1942 there were four parallel governments established in India that are :

- Ballia(UP) - first parallel government
- Tamluk (Bengal)
- Satara (Maharashtra)
- Talchar (Orissa)

Hence, the correct answer is **option D**.

Solution 131

It was not supported by the Congress was not a feature of the Khilafat movement.

Explanation :

In December 1919, both the Khilafat Committee and Congress held their meetings simultaneously at Amritsar and a delegation was prepared which was sent to England under the leadership of Maulana Mohammad Ali Johar to see the British Prime Minister, Cabinet Member and Members of Parliament and to explain the Indian point of view regarding the Khilafat. Hence, we can say that it was supported by the Congress.

Hence, the correct answer is **option B**.

Solution 132

British capital investments were invited with 15% guaranteed interest to be paid if necessary from Indian revenues was not a feature of railways in colonial India.

Explanation :

Railways in India began during the early nineteenth century. India's first railway proposals were made in Madras in 1832.

Hence, the correct answer is **option B**.

Solution 133

H.H. Risley made the following declaration about the partition of Bengal in

1904.

Explanation :

H. H. Risley who was the Home Secretary to the Government of India, made the following declaration about the partition of Bengal on 6th December 1904 that, "Bengal united is a power. Bengal divided will pull in different ways. That is perfectly true and one of the merits of the scheme".

Hence, the correct answer is **option B**.

Solution 134

Vallabhai Patel launched the Bardoli Satyagraha on 4th February, 1928 in Gujarat.

Explanation :

The government of the Bombay Presidency had raised the tax rate by 30% in 1925. On the same year, the taluka of Bardoli in Gujarat suffered from extreme floods and famine, causing crop production and this left the farmers to suffer from great financial loss. Patel first wrote a letter to the Governor of Bombay, asking him to reduce the taxes for the year in face of the calamities. But the Governor ignored the letter, and replied by announcing the date of collection. Thus, Patel then instructed all the farmers of Bardoli taluka to refuse payment of their taxes.

Hence, the correct answer is **option B**.

Solution 135

Mysore did not support the Congress during the course of the Civil Disobedience Movement.

Explanation :

Mysore being a princely state wanted to follow their own rules and authority and they did not want to be a part of the Indian Union.

Hence, the correct answer is **option B**.

Solution 136

He believed in universal education was a feature of thought and philosophy of the Kandukuri Veeresalingam.

Explanation :

He was one of the early social reformers who encouraged women education, remarriage of widows which was not supported by the society during his time and fought against dowry system. He also started a school in Dowlaiswaram in Andhra Pradesh in 1874.

Hence, the correct answer is **option B**.

Solution 137

Muhammad Husayn was honoured with the title "Zarrin Kalam" or Golden Pen who was a calligrapher in Akbar's court.

Hence, the correct answer is **option C**.

Solution 138

Kolkata - Chennai is the longest section in terms of route distance of the Golden Quadrilateral Highway in India.

Explanation :

Kolkata - Chennai is 1684 km, Mumbai - Delhi is 1419 km and Chennai - Mumbai is 1290 km.

Hence, the correct answer is **option B**.

Solution 139

The correct code is **A-3, B-2, C-1, D-4**.

Explanation :

Solar energy can be classified as a basic inexhaustible energy resource; coal, because of its very long duration of production and limited amount, can be classified as conventional non-renewable energy resource; hydel power can be classified as non-conventional renewable resource; and natural gas can be classified as an non-renewable and non-conventional energy resource.

Hence, the correct answer is **option A**.

Solution 140

The correct code is **A-4, B-3, C-2, D-1**.

Explanation :

Rajasthan (80%) is the largest producing state of gypsum, Arunachal Pradesh (72%) is the largest producing state of graphite, Gujarat (66%) is the largest producing state of fluorspar and lastly, Odisha (90%) is the largest producing state of nickel.

Hence, the correct answer is **option C**.

Solution 141

The incorrect pair of tribes to state is **Tharu - Madhya Pradesh**.

Explanation :

The Tharu are tribal people who live in the patches of plain surrounded by dense forest in the narrow belt of Terai. Tharu groups also live in the Indian Terai, foremost in Uttarakhand, Uttar Pradesh and Bihar.

The main tribal groups in Madhya Pradesh are Gond, Bhil, Baiga, Korku, Bhariya, Halba, Kaul, Mariya, and Sahariya.

Hence, the correct answer is **option A**.

Solution 142

$$\text{Absolute refractive index} = \frac{\text{Velocity of light in vacuum}}{\text{Velocity of light in medium}}$$

So,

For case of glass,

$$\frac{3}{2} = \frac{3 \times 10^8}{\text{Velocity of light in glass}}$$

$$\text{Velocity of light in glass} = 2 \times 10^8 \text{ m/s} \dots \text{(i)}$$

For case of water,

$$\frac{4}{3} = \frac{3 \times 10^8}{\text{Velocity of light in water}}$$

$$\text{Velocity of light in water} = 2.25 \times 10^8 \text{ m/s} \dots \text{(ii)}$$

Dividing (i) and (ii), we get

$$\frac{\text{Velocity of light in glass}}{\text{Velocity of light in water}} = \frac{2 \times 10^8}{2.25 \times 10^8} = \frac{8}{9}$$

Hence, the correct answer is option D.

Solution 143

Electric field does not exist inside a metallic body. Thus, from the given information, $E = 0$ for $a < r < b$.

Hence, the correct answer is option A.

Solution 144

3 (J&K), - 4 (Haryana) - 2 (Rajasthan) - 1 (Bihar) is the correct ascending order of the above states on the basis of the percentage of state's population to total population of India (based on census 2011).

Explanation :

Jammu and Kashmir accounts for 1.04%, Haryana accounts for 2.09%, Rajasthan accounts for 5.67% and lastly, Bihar accounts for 8.58%.

Hence, the correct answer is **option C**.

Solution 145

Abdul Hamid Lahori was the author of the Badshahnama.

Explanation :

Badshahnama provides evidence of the Taj Mahal's existence and was acquired by Shahjahan.

Hence, the correct answer is **option A**.

Solution 146

In 1585, the capital of the Mughal Emperor shifted from Fatehpur Sikri to Delhi is the incorrect statements about Fatehpur Sikri.

Explanation :

In 1585, the capital of the Mughal Emperor shifted from Fatehpur Sikri to Lahore due to political instability in the region.

Hence, the correct answer is **option D**.

Solution 147

New Delhi hosted the 3rd World Trauma Congress recently.

Explanation :

The World Trauma Congress 2016 was held between 17 August and 20 August 2016 at the AIIMS in New Delhi.

Hence, the correct answer is **option A**.

Solution 148

To provide enhanced connectivity to the North East of India is not an objectives of Act East Policy.

Explanation :

India's Act East Policy focusses on the extended neighbourhood in the Asia-Pacific region. India has upgraded its relations to strategic partnership with Indonesia, Vietnam, Malaysia, Japan, Republic of Korea (ROK), Australia, Singapore and Association of Southeast Asian Nations (ASEAN) and forged close ties with all countries in the Asia-Pacific region.

Hence, the correct answer is **option D**.

Solution 149

The correct order is **4, 3, 2, 1**.

Explanation :

USA won 121 medals, China won 70 medals, Great Britain won 67 medals and Russia won 55 medals.

Hence, the correct answer is **option C**.

Solution 150

To promote tourism, increase employment and lead to a balanced regional growth is not an objective of the National Civil Aviation Policy, 2016.

Explanation :

Key objectives of the National Civil Aviation Policy, 2016 are: :

To enhance regional connectivity through fiscal support and infrastructure development.

To promote the entire aviation sector chain in a harmonised manner covering cargo, MRO, general aviation, aerospace manufacturing and skill development.

To ensure safety, security and sustainability of aviation sector through the use of technology and effective monitoring.

Establish an integrated eco-system which will lead to significant growth of civil aviation sector

Hence, the correct answer is **option B**.

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