Rrb Ntpc CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Ntpc CBT - 1 Previous Year Question Paper on 2016-04-09 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Ntpc CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Ntpc CBT - 1 exam. The Cutoff of the exam was 68 marks hence you should try to score at least 78 marks.

Rrb Ntpc CBT - 1 Previous Year Question Paper : Questions and Solutions

Question 1 :
The planet Mars is also known as the _____.

Difficulty : Moderate   **Average Time : 41 Seconds**

Options :

1. Morning Star

2. Evening Star

3. Red planet

4. Blue planet

Solution :
The correct option is option 3 i.e. Red planet.

Mars	Mars carries the name of the Roman god of war and is often referred to as the 'Red Planet'.
	The latter refers to the effect of the **iron oxide prevalent on Mars' surface,** which gives it a **reddish appearance** distinctive among the astronomical bodies visible to the naked eye.
	Mars is the **fourth planet from the Sun** and the second-smallest planet in the Solar System after Mercury

Question 2 :

What is the common name of the solution of calcium hydroxide?

Difficulty : Moderate   **Average Time : 61 Seconds**

Options :

1. Lime water

2. Diet soda

3. Salt solution

4. Vinegar

Solution :

 The correct answer is **option 4** i.e. **Vinegar**

Calcium hydroxide	The chemical formula is **Ca(OH)$_2$**.
	The **pickling of cucumbers** is generally done with the help of Ca(OH)$_2$.
	Ca(OH)$_2$ is quite soluble in glycerol and acids, **but only slightly soluble in water.**

Question 3 :

Jantar Mantar in Delhi historically important for

Difficulty : Moderate   **Average Time : 54 Seconds**

Options :

1. Public meetings

2. Hunger strikes

3. Ancient sculptures

4. Astronomical observatory

Solution :

The correct option is option 4 i.e. Astronomical observatory.

Jantar Mantar	Jantar Mantar is located in the modern city of New Delhi**. It consists of 13 architectural astronomy instruments.**
	The site is one of five built by **Maharaja Jai Singh II of Jaipur, from 1723 onwards,** revising the calendar and astronomical tables.
	The primary purpose of Jantar Mantar was **to compile astronomical tables and to predict the times and movements of the sun, moon and planets.**

Question 4 :

'Smiling Buddha' was the code name for

Difficulty : Moderate   Average Time : 58 Seconds

Options :

1. The rescue and relief operations after the cloudburst in Uttarakhand in 2013.

2. The rescue and relief operations after an earthquake hit Nepal in 2015.

3. Pokharan- II nuclear test conducted by India in 1998.

4. Pokharan- I nuclear test conducted by India in 1974.

Solution :

The correct option is option 4 i.e. Pokharan- I nuclear test conducted by India in 1974.

Smiling Buddha	Smiling Buddha was the assigned code name of **India's first successful nuclear bomb test on 18 May 1974.**
	The bomb was detonated on the **army base Pokhran Test Range, in Rajasthan,** by the Indian Army under the supervision of several key Indian generals.
	With this, **India became the world's sixth nuclear power** after the United States, Soviet Union, Britain, France and China to successfully test out a nuclear bomb.

Question 5 :
'Bharat Stage Emission Standards' refers to

Difficulty : Moderate   Average Time : 69 Seconds

Options :

1. Vehicular pollution

2. Industrial pollution

3. Water pollution

4. Soil pollution

Solution :
The correct option is option 1 i.e. Vehicular pollution.

Bharat Stage Emission Standards	These are the standards set up by the Indian government which **specify the number of air pollutants from internal combustion engines, including those that vehicles can emit.**
	If these emit more pollutants than the prescribed limit, they don't get a clearance to be sold in an open market.
	Bharat Stage Emission Standards have been instituted by the **Central Pollution Control Board (CPCB), instituted within the Ministry of Environment Forests and Climate Change.**

Question 6 :
Union Government's School Nursery Yojana is about

Difficulty : Moderate   Average Time : 63 Seconds

Options :

1. Creating environmental awareness in young minds

Streamlining admissions in nursery schools

3. Bringing nursery schools under regulations

4. Creating safety about children's safety

Solution :
The correct option is option 1 i.e. Creating environmental awareness in young minds.

Union Government's School Nursery Yojana	Union Government has launched the School Nursery Yojana in a bid to bring school students **closer to nature by involving them in raising of saplings in school nurseries.**
	The scheme was launched by **Union Environment Minister Prakash Javadekar in New Delhi.**
	It will develop an organic linkage and positive emotions for the environment among the school students and in turn, keep the schools and the neighbourhood green.

Question 7 :
Multitasking system specifically refers to

Difficulty : Moderate   **Average Time : 64 Seconds**

Options :
1. More than one user

2. More than one process

3. More than one hardware

4. More than one IP address

Solution :
The correct option is option 2 i.e. More than one process.

Multitasking System	**Multitasking**, in an operating **system**, is allowing a use**r to perform more than one computer task (such as the operation of an application program) at a time.**
	The operating **system** is able to keep track of where you are in these tasks and go from one to the other without losing information.
	Each task consumes system storage and other resources

Question 8 :

Chief election commissioner can be removed from the office by

Difficulty : Moderate   **Average Time : 65 Seconds**

Options :

1. Both houses of Parliament

2. Union Council of Ministers

3. President of India

4. Chief Justice of India

Solution :

The correct option is option 1 i.e. Both houses of Parliament.

Removal of Chief Election Commissioner	The Chief Election Commissioner can be removed from office only through **a process of removal similar to that of a Supreme Court judge for by Parliament.**
	Judges of High Courts and Supreme Court, Chief Election Commissioner, Comptroller and Auditor General (CAG) may be **removed from office through a motion adopted by Parliament on grounds of 'Proven misbehaviour or incapacity'.**

	Removal requires a **special majority of 2/3rd members present and voting** supported by **more than 50% of the total strength of the house**.
	The Constitution does not use the word 'impeachment', for the removal of the judges, CAG, CEC.
	The term **'Impeachment'** is only used for removing the President which requires the special majority of 2/3rd members of the total strength of both the houses which is not used elsewhere.

Question 9 :

As per the census of India 2011, the population density was about

Difficulty : Moderate   **Average Time : 88 Seconds**

Options :

1. 382 people per sq.km

2. 353 people per sq.km

3. 402 people per sq.km

4. 428 people per sq.km

Solution :
The correct option is option 1 i.e. 382 people per sq.km.

Population density of India 2011 census	The records of population density 2011 of India state that **the density 2011 has increased from a figure of 324 to that of 382 per square kilometre.**
	Population density increased at the rate of 17.54 from 2001 to 2011.
	Bihar is the most thickly populated state (1106 persons/sq km.) followed by West Bengal-1028 and Kerala 860.

Question 10 :

Chief election commissioner can be removed from the office by

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Both houses of Parliament

2. Union Council of Ministers

3. President of India

4. Chief Justice of India

Solution :
The correct option is option 1 i.e. Both houses of Parliament.

Removal of Chief Election Commissioner	The Chief Election Commissioner can be removed from office only through **a process of removal similar to that of a Supreme Court judge for by Parliament.**
	Judges of High Courts and Supreme Court, Chief Election Commissioner, Comptroller and Auditor General (CAG) may be **removed from office through a motion adopted by Parliament on grounds of 'Proven misbehaviour or incapacity'.**
	Removal requires a **special majority of 2/3rd members present and voting** supported by **more than 50% of the total strength of the house**.
	The Constitution does not use the word 'impeachment', for the removal of the judges, CAG, CEC.
	The term **'Impeachment'** is only used for removing the President which requires the special majority of 2/3rd members of the total strength of both the houses which is not used elsewhere.

Question 11 :
Syed Modi Grand Prix Gold Championship is held every year at

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. Chandigarh
2. Lucknow
3. Delhi
4. Hyderabad

Solution :
The correct option is option 1 i.e. Lucknow.

Syed Modi Grand Prix Gold Championship	It was launched by Uttar Pradesh Badminton Association (UPBA) in 1991 as 'Syed Modi Memorial Badminton Tournament' in memory of Syed Modi.
	Initially, it was a national-level event and in 2004 it was organized **as an international event for the first time. In 2011, it was upgraded to BWF Grand.**
	It is held every year at Lucknow, Uttar Pradesh.

Question 12 :
Name the first woman to head a paramilitary force

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Divya Ajith
2. Archana Ramasundram
3. Punita Arora
4. Ashwini Pawar

Solution :
The correct option is option 2 i.e. Archana Ramasundram.

Archana Ramasundram	Senior IPS officer Archana Ramasundram was today appointed Director General of Sashastra Seema Bal (SSB), the first woman to head a paramilitary force.
	Ramasundram is currently Director, National Crime Records Bureau.
	The SSB is entrusted with guarding the country's frontiers with Nepal and Bhutan.
	There are five paramilitary forces-- SSB, Central Reserve Police Force (CRPF), Border Security Force (BSF), Central Industrial Security Force and Indo Tibetan Border Police-- and none has ever had a woman chief.

Question 13 :
Who was known as Badshah Khan?

Difficulty : Moderate   Average Time : 63 Seconds

Options :

1. Mohammad Ali Jinnah
2. Abdul Kalam Azad
3. Khan Abdul Ghaffar Khan
4. Khan Abdul Wali Khan

Solution :
The correct option is option 3 i.e. Khan Abdul Ghaffar Khan.

Khan Abdul Ghaffar Khan	Khan Abdul Ghaffar Khan, later known as Badshah, or King, was born in 1890 in the town of Utmanzai — not far from Peshawar, in what was then the Northwest Frontier Province of India.
	Shortly after meeting Gandhi in 1919, **Khan founded the Khudai Khidmatgars or "Servants of God" to expand his revolutionary work.**

	He was also known as 'Frontier Gandhi'.

Question 14 :
Saffron is produced in large scale in

Difficulty : Moderate

Average Time : 60 Seconds

Options :
1. Himachal Pradesh
2. Gujarat
3. Jammu and Kashmir
4. Kerala

Solution :
The correct option is option 3 i.e. Jammu and Kashmir.

Saffron cultivation	**Saffron has several names-Zafran, Kesar, Kang, Kang Posh etc. Kang posh, the flowers of Saffron is a symbol of freshness and purity.**
	The cultivation of saffron is a traditional art. **In India, 5,707 hectares of land comes under its cultivation.** Its annual production is around sixteen thousand kilograms.
	The **state of Jammu and Kashmir tops the list** of the saffron growing states in India. it can be gauged from the fact that out of the total 5,707 hectares of land under its cultivation **4,496 hectares lie exclusively in Jammu and Kashmir.**

Question 15 :
The political system in Afghanistan is known as

Difficulty : Moderate

Average Time : 66 Seconds

Options :
1. Islamic State of Afghanistan

Islamic Republic of Afghanistan

3. Islamic Emirate of Afghanistan

4. Islamic Government of Afghanistan

Solution :
The correct option is option 2 i.e. the Islamic Republic of Afghanistan.

Islamic Republic of Afghanistan	**Afghanistan is an Islamic republic consisting of three branches of power (executive, legislative, and judiciary) overseen by checks and balances.**
	The country was divided **administratively into provinces**, each headed by a centrally appointed governor.
	The provinces were further subdivided into **districts and subdistricts** headed by appointed officials.

Question 16 :

Who won the majority of the men's singles tennis grand slam tournaments in 2015?

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. Andy Murray

2. Novak Djokovic

3. Roger Federer

4. Stanislas Wawrinka

Solution :
The correct option is option 2 i.e. Novak Djokovic.

Novak Djokovic	He won the majority of the men's singles tennis grand slam tournaments in 2015.
	He won the US Open, Wimbeldon and Australian Open.

	Stanislas Wawrinka won the French Open.

Question 17 :
The Constituent Assembly adopted the National flag on

Difficulty : Moderate   Average Time : 48 Seconds

Options :

1. 22nd July 1947

2. 22nd August 1947

3. 22nd January 1947

4. 22nd October 1947

Solution :
The correct option is option 1 i.e. 22nd July 1947.

National flag	The National Flag of India was adopted in its present form during the meeting of **Constituent Assembly held on the 22 July 1947**, a few days before India's independence from the British on 15 August 1947.
	It served as the national flag of the Dominion of India between 15 August 1947 and 26 January 1950 and that of the Republic of India thereafter.
	The National flag of India is a **horizontal tricolour of deep saffron (Kesari) at the top, white in the middle and dark green at the bottom in equal proportion.** The **ratio** of the width of the flag to its length is **two to three.**

Question 18 :
When milk becomes sour, _____ is produced.

Difficulty : Moderate   Average Time : 69 Seconds

Options :

Lactose

2. Lactic acid

3. Saliclyic acid

4. Linoleic acid

Solution :
The correct option is option 2 i.e. Lactic acid.

Lactic acid	**Milk** contains a sugar called lactose.
	It also contains harmless bacteria called lactobacillus, which uses lactose for energy and creates lactic acid as a by-product.
	It is the lactic acid which makes milk taste sour

Question 19 :
Yellow fever is mainly transmitted among humans by

Difficulty : Moderate   Average Time : 51 Seconds

Options :
1. Female mosquito bite

2. Male mosquito bite

3. Water

4. Air

Solution :
The correct option is option 1 i.e. Female mosquito bite.

Yellow fever	Yellow fever virus is an **RNA virus that belongs to the genus Flavivirus.** It is related to West Nile, St. Louis encephalitis, and Japanese encephalitis viruses.

	Yellow fever virus is **transmitted to people primarily through the bite of infected Aedes or Haemagogus species (female mosquitoes) mosquitoes.**
	Mosquitoes acquire the virus by feeding on infected primates (human or non-human) and then can transmit the virus to other primates (human or non-human).

Question 20 :
The end of British rule in India came in the year

Difficulty : Moderate   Average Time : 62 Seconds

Options :

1. 1946

2. 1947

3. 1948

4. 1950

Solution :
The correct option is option 2 i.e. 1947.

Indian independence	The a**rrival of Lord Louis Mountbatten as India's last viceroy in March 1947**, brought with it an agenda to transfer power as quickly and efficiently as possible.
	The **resulting negotiations saw the deadline for British withdrawal brought forward from June 1948 to August 1947.**
	The British Rule was the rule by the British Crown on the Indian subcontinent from **1858 to 1947.**

Question 21 :
Who was the first chairman of ISRO?

Difficulty : Moderate   Average Time : 57 Seconds

Options :

1. Kasturirangam
2. Vikram Sarabhai
3. Homi K Bhabha
4. C V Raman

Solution :

The correct option is option 2 i.e. Vikram Sarabhai.

Vikram Sarabhai	**The first chairman of the ISRO (Indian Space Research Organisation) was Dr Vikram Sarabhai.**
	The current chairman of the ISRO is K. Sivan who took the charge in January 2018.
	The Indian National Committee for Space Research was found in 1962 with Vikram Sarabhai as its chairperson

Question 22 :

The popular Yankee stadium in the USA is located at

Difficulty : Moderate   **Average Time : 53 Seconds**

Options :

1. Boston
2. New York
3. Las Vegas
4. Washington DC

Solution :

The correct option is **option 2** i.e **New York.**

Yankee Stadium	**Yankee Stadium** opened for the 1923 MLB season and was hailed at the time as a one-of-a-kind facility in the country for its size.

	Over the course of its history, **Yankee Stadium** became one of the most **famous** venues in **the United States**, having hosted a variety of events and historic moments during its existence.
	It is the home field for the New York Yankees of Major League Baseball (MLB), and New York City FC of Major League Soccer (MLS).

Question 23 :

An electric motor converts

Difficulty : Moderate   **Average Time : 64 Seconds**

Options :

1. mechanical energy into electrical energy

2. thermal energy into electrical energy

3. electrical energy into mechanical energy

4. radient energy into electrical energy

Solution :

The correct option is option 3 i.e. electrical energy into mechanical energy.

Electric motor	An **electric motor** is an **electrical** machine that **converts electrical** energy into mechanical energy.
	Most **electric motors** operate through the interaction between the **motor's** magnetic field and **electric** current in a wire winding to generate force in the form of torque applied on the **motor's** shaft.
	It employs electromagnetic phenomena.

Question 24 :

When the car takes a bend, the force that pushes us to the outside of the curve is the

Difficulty : Moderate   **Average Time : 69 Seconds**

Options :

1. Centripetal force

Centrifugal force

3. Frictional force

4. Tension force

Solution :

The correct option is option 2 i.e. Centrifugal force.

Centrifugal force	**It is a force, arising from the body's inertia, which appears to act on a body moving in a circular path and is directed away from the centre around which the body is moving.**
	If a car on the "inside" lane of a curve tries to navigate with too much speed, centrifugal force will pull it away from the centre and, potentially, into the path of oncoming traffic.
	If a car is travelling with too much speed from the other direction—in the "outside" lane of a curve—centrifugal force will pull it out to the right and off the roadway.

Question 25 :

Prime Minister is the ex officio president of

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. CLRI

2. CSIR

3. ISRO

4. DRDO

Solution :

The correct option is option 2 i.e CSIR.

CSIR	Council of Scientific & Industrial Research

It operates as an autonomous body registered under the Registration of Societies Act of 1860. It is mainly funded by the Union Ministry of Science and Technology.	
Prime Minister is the chairman of CSIR.	

Question 26 :

The name of the newest Antarctica Research base commissioned in 2015 is

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Dakshin Gangotri

2. Maitri

3. Bharati

4. Lotus

Solution :

The correct option is option 3 i.e Bharati.

Bharati	Located beside Larsmann Hill at 69°S, 76°E, Bharati is established in **2015**.
	This newest **research station** for oceanographic **research** will collect evidence of continental breakup to reveal the 120-million-year-old ancient history of the Indian subcontinent.
	Dakshin Gangotri was the first Indian scientific research base station established in Antarctica, as a part of the Indian Antarctic Program.

Question 27 :

Indian sportsperson Gagan Narang is associated with

Difficulty : Moderate

Average Time : 58 Seconds

Options :

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   Archery

2. Air rifle shooting

3. Wrestling

4. Badmintom

Solution :
The correct option is option 2 i.e. Air rifle shooting.

Gagan Narang	Gagan Narang (born 6 May 1983) is an Indian shooter, supported by the Olympic Gold Quest.
	He was the first Indian to qualify for the 2012 London Olympics, where he clinched the bronze medal in the Men's 10-metre Air Rifle event.
	He was the first Indian to qualify for the London Olympics.

Question 28 :

Microsoft Corporation was founded in

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 1979

2. 1981

3. 1975

4. 1965

Solution :
The correct option is option 3 i.e. 1975.

Microsoft	Microsoft Corporation is an American multinational technology company with headquarters in Redmond, Washington.
	The CEO is Satya Nadella.

	Microsoft was founded by Bill Gates and Paul Allen on April 4, 1975, to develop and sell BASIC interpreters for the Altair 8800.

Question 29 :

Which organ is not a gland?

Difficulty : Moderate　　　　　　　　　　　　**Average Time : 48 Seconds**

Options :

1. Adrenal

2. Liver

3. Pituitary

4. Gall bladder

Solution :

The correct option is option 4 i.e Gal bladder.

Gall bladder	In vertebrates, the **gallbladder is a small hollow organ where bile is stored and concentrated** before it is released into the small intestine.
	In humans, the pear-shaped **gallbladder lies beneath the liver,** although the structure and position of the **gallbladder** can vary significantly among animal species.
	After meals, the gallbladder is empty and flat, like a deflated balloon. Before a meal, the gallbladder may be full of bile and about the size of a small pear.

Question 30 :

Who has conferred the Arjuna Award for wrestling in 2015?

Difficulty : Moderate　　　　　　　　　　　　**Average Time : 64 Seconds**

Options :

1. Babita Kumari

Abhilasha Shashikant

3. Yumnam Sanathoi Devi

4. M. R Poovamma

Solution :
The correct option is option 1 i.e Babita Kumari.

Arjuna Award 2015	It was instituted in 1961.
	It is given by Union Ministry of Youth Affairs and Sports to sportsperson in recognition of their outstanding achievement in National sports.
	M.R. Poovamma has been conferred with this award for her contributions in Athletics and **Babita Kumari in the field of Wrestling.**

Question 31 :
Every set in the dotted-decimal format of an IP address is called

Difficulty : Moderate   **Average Time : 56 Seconds**

Options :
1. Subnet

2. Octet

3. Subset

4. IP set

Solution :
The correct option is option 1 i.e. Subnet.

Subnet	A subnetwork or subnet is a logical subdivision of an IP network.

	The practise of **dividing a network into two or more networks** is called subnetting.
	Computers that belong to a subnet are addressed with an identical most-significant bit-group in their IP addresses.

Question 32 :

Parliament House in Delhi was constructed during

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 1895-1900

2. 1901-1909

3. 1921-1927

4. 1931-35

Solution :

The correct option is option 3 i.e. 1921-27.

Parliament House	Parliament House was built in 1921, and its **foundation stone was laid by the Duke of Connaught and it was inaugurated in 1927 by Lord and Lady Irwin.**
	It was **designed by Herbert Baker.**
	A fine specimen of symmetry and architecture, it is spherical in shape and comprises three semicircular chambers that house the Rajya Sabha (Upper House) and the Lok Sabha (House of the People) and a central library.

Question 33 :

Anaemic condition is due to

Difficulty : Moderate

Average Time : 57 Seconds

Options :

Deficiency of platelets

2. Deficiency of RBC

3. Deficiency of WBC

4. Deficiency of oxidants

Solution :

The correct option is option 2 i.e. Deficiency of RBC.

Anaemia	Anaemia is defined as a **low number of red blood cells.**
	Haemoglobin is the main protein in your red blood cells. It carries oxygen and delivers it throughout your body.
	If it is low enough, your tissues or organs may not get enough oxygen.

Question 34 :

The Hornbill Festival is celbrated in

Difficulty : Moderate   **Average Time : 53 Seconds**

Options :

1. Arunachal Pradesh

2. Nagaland

3. Odisha

4. West Bengal

Solution :

The correct option is option 2 i.e. Nagaland.

Hornbill Festival	It is also called the **Festival of Festivals.**
	It is held in **December** every year.
	It is celebrated **to revive, protect, sustain, and promote the richness of the Naga heritage and traditions.**

Question 35 :

Union Government Budget Deficit for a particular financial year represents_____.

Difficulty : Moderate   **Average Time : 51 Seconds**

Options :

1. Total amount of revenue receipts

2. Total amount of capital receipts

3. The amount of money that the Government has to borrow

4. Total amount of estimated Government expenditure

Solution :

The correct option is option 3 i.e. The amount of money that the Government has to borrow.

Union Government Budget Deficit	A **government budget** is said to be a **deficit budget** if the estimated **government** expenditure exceeds the expected **government** revenue in a **particular financial year**.
	A government budget is a financial statement presenting the government's proposed revenues and spending for a financial year.
	In any given time period, the government's budget can be either in deficit or in surplus.

Question 36 :

Which aircraft carrier was formally inducted into Indian Navy by PM Narendra Modi in the year 2014?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. INS Vikrant

2. INS Vikramaditya

3. INS Viraat

4. INS Chakra

Solution :
The correct option is option 2 i.e. INS Vikramaditya.

INS Vikramaditya	INS Vikramaditya is a **modified Kiev-class aircraft carrier and the flagship of the Indian Navy.**
	It has been renamed in honour of Vikramaditya, a legendary emperor of India.
	INS Vikramaditya is the Indian Navy's largest short take-off, but assisted recovery (STOBAR) aircraft carrier

Comprehension :
The following table represents the rainfall (in mm) of five states from June to September in the year.   June July August September JK 1100 1100 1000 1200 HP 1100 1100 1000 1300 WB 1400 1300 1200 1000 GA 1000 1300 1500 1700 TN 1200 1050 1000 1100 Consider the information and answer questions based on it.

Question 37 :
Which month recieved the lowest rainfall in the year?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. June

2. July

3. August

September

Solution :

The correct answer is option 3 i.e. August

From the given table we can eliminate the lowest rainfall month.

	June	July	August	September
JK	1100	1100	1000	1200
HP	1100	1100	1000	1300
WB	1400	1300	1200	1000
GA	1000	1300	1500	1700
TN	1200	1050	1000	1100
Total rainfall	5800	5850	5700	6300

Comprehension :

The following table represents the rainfall (in mm) of five states from June to September in the year.   June July August September JK 1100 1100 1000 1200 HP 1100 1100 1000 1300 WB 1400 1300 1200 1000 GA 1000 1300 1500 1700 TN 1200 1050 1000 1100   Consider the information and answer questions based on it.

Question 38 :

Which state shows a gradual increase in its rainfall from june to september?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. HP

2. WB

3. GA

4. TN

Solution :

The correct answer is option 3 i.e. GA

from the given table, we can clearly see that GA state shows a gradual increase in rainfall from June to September.

Comprehension :

The following table represents the rainfall (in mm) of five states from June to September in the year.   June July August September JK 1100 1100 1000 1200 HP 1100 1100 1000 1300 WB 1400 1300 1200 1000 GA 1000 1300 1500 1700 TN 1200 1050 1000 1100 Consider the information and answer questions based on it.

Question 39 :
Which state has the lowest average rainfall?

Difficulty : Moderate

Average Time : 45 Seconds

Options :
1. JK
2. HP
3. WB
4. TN

Solution :
The correct answer is option 4 i.e. TN

From the given table we can see that TN state has the lowest average rainfall.

	June	July	August	September	Total rainfall
JK	1100	1100	1000	1200	4400
HP	1100	1100	1000	1300	4500
WB	1400	1300	1200	1000	4900
GA	1000	1300	1500	1700	5500
TN	1200	1050	1000	1100	4350

Question 40 :
Find the 4th proportional to 9, 17 and 27.

Difficulty : Moderate

Average Time : 64 Seconds

Options :
1. 57
2. 48

51

4. 53

Solution :

The correct answer is option 3 i.e. 51

Understanding/Application
4th proportional to 9, 17 and 27 = x (let)   9/17 = 27/x   9x= 27 × 17   x = (27 × 17)/9 = 3 × 17 = 51

Question 41 :

A bus runs at 50 kmph. if the speed is increasd by 10 kmph, it will cover 20 km more in the same time. Find the actual distance covered?

Difficulty : Moderate   **Average Time : 44 Seconds**

Options :

1. 100 km

2. 150 km

3. 200 km

4. 250 km

Solution :

The correct answer is option 1 i.e. 100 km

Understanding/Application

Speed A = 50 km/hr

Speed Inc = 50 + 10 = 60 km/hr

When increase by 10 km/hr travel 20 km

So,

Distance = 20 km

Speed = 10 km/hr

Time = 20/10 = 2 hours

Hence, Actual distance = SpeedA × Time = 50 × 2 = 100 km

Question 42 :

The ratio of marks obtained by a student in 3 subjects was 1:2:3. The school decided to allow grace marks of 5% for each subject. Find the student's new ratio.

Difficulty : Moderate   **Average Time : 52 Seconds**

Options :
1. 1:2:3
2. 2:3:4
3. 2:3:1
4. 3:2:1

Solution :

The correct answer is option 1 i.e. 1:2:3

Understanding/Application
Ratio of A:B:C = 1:2:3
When an equal amount increased in every number then, the ratio will be the same.
Hence, After 5% grace in every subject ratio will be 1:2:3

Question 43 :

The arithmatic mean of the marks scored by students of a class is 58. 20% of them secured a mean score of 60. The mean score of another 30% of the students was 40. The mean score of the remaining students is

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 65
2. 66
3. 68
4. 70

Solution :

The correct answer is option 3 i.e. 68

Let the mean score of the remaining 50% student = x

Let total student = 100

20% student's mean score = 60

20 student's total score = 60 × 20 = 1200

30% student's mean score = 40

30 student's total score = 30 × 40 = 1200

100% student's mean score = 58

100 student's total score = 100 × 58 = 5800

remaining student's total score = 5800 - 1200 - 1200 = 3400

50 % = 50 stdent's mean score = 3400/50 = 68

Question 44 :

A tap can fill a tank in 20 minutes. if a leakage is capable of emptying the tank in 60 minutes, the tank will be filled in

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 1 hour
2. 45 minutes
3. 30 minutes
4. 50 minutes

Solution :

The correct answer is option 3 i.e. 30 minutes

Understanding/Application
A = 20 min B = 60 min (work as negative) Total capacity of tank = LCM of 20 and 60 = 60 liters Efficiency of A = 60/20 = 3 Efficiency of B = 60/60 = 1 (work as negative) When work together net efficiency = 3 - 1 = 2 Time required to fill the empty tank = Total capacity/Net efficiency = 60/2 = 30 minutes

Question 45 :

If $x + y = 19$ and $x - y = 7$, then $xy = ?$

Difficulty : Moderate   **Average Time : 48 Seconds**

Options :

1. 13

2. 48

3. 78

4. 72

Solution :

The correct answer is **option 3** i.e. **78**

Understanding/Application

x + y = 19 ...(i)

x - y = 7 ....(ii)

Add equation (i) and (ii), we get

x + y + x - y = 19 + 7

2x = 26

x = 13

Now, put the value of x in equation (i), we get

x + y = 19

13 + y = 19

y = 6

Now, we have to find the value of xy

xy = 13 × 6 = 78

Question 46 :

A car covers the first 30 km at a speed of 60 kmph and the next 20 km at 80 kmph. find the average speed.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 65.67 kmph

2. 65.33 kmph

3. 66.33 kmph

4. 66.67 kmph

Solution :

The correct answer is option 4 i.e. 66.67 km/hr

Understanding/Application

For 1st part

Speed = 60 km/hr

Distance = 30 km

so, Time taken in 1st part = Distance/speed = 30/60 = 1/2 hours

Now, For 2nd part

Speed = 80 km/hr

Distance = 20 km

so, Time taken in 2nd part = Distance/speed = 20/80 = 1/4 hours

Now, Average speed = Total distance/ Total time = (30 + 20)/(1/2 + 1/4)

= 50/(3/4) = 200/3 = 66.67 km/hr

Question 47 :

An article was sold for Rs. 2100 at a profit of 25%. What is its cost price?

Difficulty : Moderate   **Average Time : 54 Seconds**

Options :

1. Rs. 1,620

2. Rs. 1,640

3. Rs. 1,660

4. Rs. 1,680

Solution :

The correct answer is **option 4** i.e. **Rs 1680**

Understanding/Application
CP = 100%
SP = (100 + 25)% = Rs 2100
Hence, CP = 100% = (2100/125)100 = 16.8 × 100 = Rs 1680

Question 48 :

Cosec(90 -) = ?

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. tan
2. cot
3. sec
4. cos

Solution :

The correct answer is option 3 i.e. sec

Understanding/Application
Consider a right-angled triangle with sides as follows.
Base =4 (or a), Height/Perpendicular =3 (or b) and hypotenuse side=5 (or c).
And let the angle between sides c and a = ,
So, we know Cosec = H/P= c/b = 5/3
And Sec = H/B = c/a= 5/4
Also, the angle between sides b and c is (90 -).
Similarly considering Cosec and sec for this angle, we get cosec (90 -)= H/B = 5/4
And sec (90 -)= H/P = c/b= 5/3 = cosec.
Thus cosec (90 -)= sec

Question 49 :

What will be the cost of levelling a circular ground of diameter 28 m, if the charges are Rs. 125 per sq.m?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Rs. 76,000
2. Rs. 76,400
3. Rs. 76,800

Rs. 77,000

Solution :

The correct answer is option 4 i.e. Rs Rs 77,000

Understanding/Application
Given, Diameter = 28 m Rate = 125 per sq. meter We know that, Radius of circle = Diameter of circle/2 = 28/2 = 14 m Area of circular ground = r^2 = (22/7 × 14 × 14) m^2 = (22 × 14 × 2) m^2 = 616 m^2 Total cost of leveling = 616 × 125 = Rs 77,000

Question 50 :

A trader bought 10 kg of tea at Rs.400 per kg. He sold half the quantity at 20% loss and remaining at 10% profit.What was his net profit or loss in perentage?

Difficulty : Moderate   **Average Time : 58 Seconds**

Options :

1. 5% loss

2. 5% gain

3. 10% loss

4. 10% gain

Solution :

The correct answer is option 1i.e. 5% Loss

Understanding/Application

Rate = 400 per kg

Total weight = 10 kg

20% Loss = (400/100)(100 - 20) = (4)(80) = 320 per kg

Rate = 320 per kg

Weight = 10/2 = 5kg

Selling price = 320 × 5 = Rs 1600Now 10% profit = (400/100)(100 + 10) = (4)(110) = 440 per kg

Rate = 440 per kg

Weight = 10/2 = 5kg

Selling price = 440 × 5 = Rs 2200

Total SP = 1600 + 2200 = 3800

Toatl CP = 400 × 10 = 4000

CP is greater than SP, So shopkeeper got loss on whole.

Loss% = [(CP - SP)/CP]100 = [(200/4000)100] = 5%

Question 51 :
A path of 2.5 m width surrounds a rectangular garden of length 10 m and breadth 8 m. Area of the garden, inclusive of the path is

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 130.25 sq.m

2. 131.25 sq.m

3. 195.00 sq.m

4. 162.50 sq.m

Solution :
The correct answer is option 3 i.e. 195 square meter

Understanding/Application

Given,

Path width = 2.5 m

Without path L = 10 m

W = 8 m

Total length of garden = 10 + 2(2.5) = 10 + 5 = 15 m

Total Width of garden = 8 + 2(2.5) = 8 + 5 = 13 m

Total area of rectangular garden = L × B = 15 × 13 = 195 square meter

Question 52 :

A shop keeper purchased 10 kg of rice and 20 kg of sugar at Rs.75 and Rs. 85 per kg respectively. On selling, he gained 20% on rice and 10% on sugar. What was the total sale price?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Rs. 2,695

2. Rs. 2,770

3. Rs. 2,800

4. Rs. 2,750

Solution :

The correct answer is option 2 i.e. Rs 2770

Understanding/Application

> 20% gain on Rice
>
> Total SP of rice = (Rate/100) (100 + Gain%) (weight) = (75/100)(100 + 20)(10)
>
> = (.75)(120)(10) = Rs 900
>
> Now 10% gain on Sugar
>
> Total SP of Sugar = (Rate/100) (100 + Gain%) (weight) = (85/100)(100 + 10)(20)
>
> = (.85)(110)(20) = Rs 1870
>
> Total SP = 900 + 1870 = Rs 2770

Question 53 :

A shop keeper purchased 10 kg of rice and 20 kg of sugar at Rs.75 and Rs. 85 per kg respectively. On selling, he gained 20% on rice and 10% on sugar. What was the total sale price?

Difficulty : Moderate   **Average Time : 51 Seconds**

Options :

1. Rs. 2,695

2. Rs. 2,770

3. Rs. 2,800

4. Rs. 2,750

Solution :

The correct answer is option 2 i.e. Rs 2770

Understanding/Application

Given,

CP of Rice = Rs 75 per kg

Weight of rice = 10 kg

CP of sugar = 85 per kg

Weight of sugar = 20 kg

For 20% gain on rice

Total selling price of rice = (Rate of rice/100) (100 + Gain on rice%) (total weight of rice)

= (75/100) (100 + 20) (10) = Rs 900

Now 10% gain on Sugar

Total selling price of sugar = (Rate of sugar/100) (100 + Gain on sugar%) (total weight of sugar)

= (85/100) (100 + 10) (20) = Rs 1870

Total selling price = 900 + 1870 = Rs 2770

Question 54 :

A shop keeper purchased 10 kg of rice and 20 kg of sugar at Rs.75 and Rs. 85 per kg respectively. On selling, he gained 20% on rice and 10% on sugar. What was the total sale price?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Rs. 2,695

2. Rs. 2,770

3. Rs. 2,800

4. Rs. 2,750

Solution :

The correct answer is option 2 i.e. Rs 2770

Understanding/Application

Given,

CP of Rice = Rs 75 per kg

Weight of rice = 10 kg

CP of sugar = 85 per kg

Weight of sugar = 20 kg

For 20% gain on rice

Total selling price of rice = (Rate of rice/100) (100 + Gain on rice%) (total weight of rice)

= (75/100) (100 + 20) (10) = Rs 900

Now 10% gain on Sugar

Total selling price of sugar = (Rate of sugar/100) (100 + Gain on sugar%) (total weight of sugar)

= (85/100) (100 + 10) (20) = Rs 1870

Total selling price = 900 + 1870 = Rs 2770

Question 55 :
Find the mean value of 2, 3, 3, 4, 6, 7.

Difficulty : Moderate

Average Time : 57 Seconds

Options :
   1. 4.17
   2. 4.15
   3. 4.13
   4. 4.70

Solution :
The correct answer is option 1 i.e. 4.16

Understanding/Application

Given,

Numbers = 2, 3, 3, 4, 6, 7

Now, the total number of numbers = 6

Sum of numbers = 2 + 3 + 3 + 4 + 6 + 7 = 25

Formula:

Mean = Sum of numbers/Total number of numbers

So,

Mean = 25/6 = 4.16

Question 56 :
A man purchased a cycle for Rs. 3,000/- and agreed to pay 12% on the amount as instead. He repaid principal and interest in 12 equal monthly installments. Find the amount of each installment.

Difficulty : Moderate   **Average Time : 48 Seconds**

Options :

1. Rs. 260

2. Rs. 240

3. Rs. 280

4. Rs. 300

Solution :
The correct answer is option 3 i.e. Rs 280

Understanding/Application

Given,

Price of cycle = P = Rs 3000

Intrest = 12%

Number of installment = 12

Now,

Amount = P + (P/100)12

= 3000 + (3000/100)12

= 3000 + 360 = Rs 3360

Each installment = Amount/ Number of installment

= 3360/12 = Rs 280

Question 57 :
Find the HCF & LCM of 16, 24.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 8, 48

2. 4, 12

3. 2, 24

4. 4, 48

Solution :
The correct answer is option 1 i.e. 8, 48

Understanding/Application

Given,

Numbers = 16 and 24

Factor of 16 = 2^4

Factor of 24 = $2^3 \times 3$

Now,

HCF of 16 and 24 = 2^3 = 8

LCM of 16 and 24 = $2^4 \times 3$ = 16 × 3 = 48

Question 58 :

During morning walk , a man covers a distance of 3 km, 4 km , 3.5 km, 5 km and 4.5 km from Monday to Friday, respectively. How much distance should he cover on two more days, so that his average per week becomes 4 km per day?

Difficulty : Moderate   **Average Time : 52 Seconds**

Options :

1. 4

2. 8

3. 5

4. 6

Solution :

The correct answer is option 2 i.e. 8 km

Understanding/Application

Given,

M + T + W + T + F = (3 + 4 + 3.5 + 5 + 4.5) km

M to F = 20 km

Average distance of a week = 4 km

Total distance in a week = 7 × 4 = 28

Now,

(Saturday + Sunday) distance = Total distance in a week - Sum of Monday to Friday distance

= 28 - 20 = 8 km

Question 59 :
22 - 33 + 43 - 62 = ?

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. 2

2. 3

3. 4

4. 5

Solution :

The correct answer is option 4 i.e. 5

Understanding/Application
Given,
$2^2 - 3^3 + 4^3 - 6^2$
= 4 - 27 + 64 - 36
= 68 - 63
= 5

Question 60 :

The difference between the ages of two sisters is 4 years when fathers's age is 54. Father is elder by 2 years to mother.

Younger sister's age is half of mother's age . Find the age of older sister.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 26
2. 27
3. 29
4. 30

Solution :

The correct answer is option 4 i.e. 30 years

Understanding/Application
Given,
S1 - S2 = 4 years
Father's age = 54 years
Mother's age = 54 - 2 = 52 years
A/q-
S2 = Mother's age/2 = 52/2 = 26 years
S1(older) = 4 + S2 = 4 + 26 = 30 years

Question 61 :

$\sin 290^o + \csc 290^o - \cot 245^o = ?$

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 2
2. 1
3. 1/2
4. 3/2

Solution :

The correct answer is option 2 i.e. 1

Understanding/Application
We know that,
$\sin 90^0 = 1$
$\text{cosec } 90^0 = 1$
$\cot 45^0 = 1$
Now,
$\cos^2 90^0 + \text{cosec}^2 90^0 - \cot^2 45^0$
$= 1^2 + 1^2 - 1^2$
$= 1 + 1 - 1$
$= 1$

Question 62 :
The LCM of two numbers is 66. The numbers are in the ratio 2:3. The sum of the numbers is

Difficulty : Moderate   **Average Time : 51 Seconds**

Options :

1. 60
2. 55
3. 50
4. 65

Solution :
The correct answer is option 2 i.e. 55

Understanding/Application

Given,

LCM of two numbers = 66

The ratio of two numbers = 2:3

1st number = 2x

2nd number = 3x

LCM of 2x and 3x = 6x

So, 6x = 66

x = 66/6 = 11

so,

1st number = 2x = 2 × 11 = 22

2nd number = 3x = 3 × 11 = 33

Sum of numbers = 22 + 33 = 55

Question 63 :

The sum of the positive integers is 34 and their difference is 8. Find their product.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 308

2. 273

3. 209

4. 345

Solution :

The correct answer is option 2 i.e. 273

Understanding/Application

Given,

A + B = 34   ....(i)

A - B = 8   ....(ii)

Add equation (i) and (ii)

A + B + A - B = 34 + 8

2A = 42

A = 42/2 = 21

Put value of A in equation (i)

B = 34 - A = 34 - 21 = 13

Hence, A × B = 21 × 13 = 273

Question 64 :

Find the value of $y(y4 - y2 - y)$ when y = 5.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 2900

2. 2975

3. 2925

4. 2995

Solution :

The correct answer is option 2 i.e. 2975

Understanding/Application

Given,

$y = 5$

Now, $y(y^4 - y^2 - y)$

$= 5 (5^4 - 5^2 - 5)$

$= 5^2 (5^3 - 5 - 1)$

$= 25 (125 - 5 - 1)$

$= 25 (119)$

$= 2975$

Question 65 :

How many prime numbers are there between the positive integers 60 and 100?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 9

2. 6

3. 7

4. 8

Solution :

The correct answer is **option 4** i.e. **8**

Understanding/Application
60 To 100 Prime numbers are: 61, 67, 71, 73, 79, 83, 91 and 97
Here, total 8 prime numbers lays between 60 to 100.

Question 66 :

A certain number of men agreed to do a work in 20 days. 5 men did not come for work. Others completed the work in 40 days. Find the number of men who had agreed to do the work originally.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 8
2. 10
3. 12
4. 15

Solution :

The correct answer is option 2 i.e. 10

Understanding/Application
Given,
Let "x" men agreed to do work in 20 days
Total work = 20 × x = 20x
When 5 men not came
Number of men = x - 5
Days = 40
20x = (x - 5) 40
x = 2x - 10
x = 10
Hence, originally workers = 10

Question 67 :

Find the value of '?', if the mean of the data set 18, 16, 22, 13, ? = 16.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 9
2. 11

    10

4. 12

Solution :

The correct answer is option 2 i.e. 11

Understanding/Application
Given,
Let 5th number = x
Numbers are: 18, 16, 22, 13, x
Number of numbers = 5
Mean = 16
Formula:
Mean = Sum of numbers/Number of numbers
16 = (18 + 16 + 22 + 13 + x)/5
80 = 69 + x
x = (80 - 69) = 11

Comprehension :

The following table represents the rainfall (in mm) of five states from june to september in year.   June July August September JK 1100 1100 1000 1200 HP 1100 1100 1000 1300 WB 1400 1300 1200 1000 GA 1000 1300 1500 1700 TN 1200 1050 1000 1100   Consider the information and answer questions based on it.

Question 68 :

Which state shows a gradual increase in its rainfall from june to september?

Difficulty : Moderate   **Average Time : 56 Seconds**

Options :

1. HP

2. WB

3. GA

TN

Solution :
GA

Comprehension :
Consider the following information and answer the questions based on it. Out of 50 kids in a colony, 10 like only basketball, 25 like only football, 10 like both volleyball and football and 5 like only volleyball.

Question 69 :
How many kids like only one sport?

Difficulty : Moderate   Average Time : 36 Seconds

Options :

1. 50
2. 40
3. 35
4. 25

Solution :
40

Comprehension :
Consider the following information and answer the questions based on it. Out of 50 kids in a colony, 10 like only basketball, 25 like only football, 10 like both volleyball and football and 5 like only volleyball.

Question 70 :
How many kids do not like volleyball?

Difficulty : Moderate   Average Time : 35 Seconds

Options :

1. 15
2. 25
3. 35
4. 45

Solution :

35

Comprehension :

Consider the following information and answer the questions based on it. Out of 50 kids in a colony, 10 like only basketball, 25 like only football, 10 like both volleyball and football and 5 like only volleyball.

Question 71 :

The ratio of kids who like football to those who like only basketball is

Difficulty : Moderate   **Average Time : 37 Seconds**

Options :

1. 5/2

2. 7/2

3. 4

4. 5

Solution :

7/2

Question 72 :

Rearrange the jumbled letters to make meaningful words and then select the one which is different.

Difficulty : Moderate   **Average Time : 27 Seconds**

Options :

1. LOWELY

2. IFER

3. THIWE

4. WRONB

Solution :

The correct answer is **option 2 i.e. IFER.**

Understanding	Application

Rearrange the jumbled letters to make a meaningful word, we get 1) LOWELY = YELLOW **2) IFER = FIRE** 3) THIWE = WHITE 4) WRONB = BROWN	We can see that option 1, 3, and, 4 is the name of colour but option 2 is different. hence, **option 2 i.e. IFER** is the one which is different.

Question 73 :

Which of the following will fit in '?' place in the following series? AN, BO, CP, DQ, ?

Difficulty : Moderate   **Average Time : 58 Seconds**

Options :

1. ES
2. RE
3. FS
4. ER

Solution :

The correct answer is **option 4 i.e. ER.**

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Understanding

In this series, we can see that 1st and 2nd letters are increasing.

So the complete series is AN, BO, CP, DQ, **ER**

Question 74 :

Nurse : Ward : : Teacher : ?

Difficulty : Moderate

Average Time : 96 Seconds

Options :

1. Student
2. Board
3. Class
4. Lesson

Solution :

The correct answer is **option 3 i.e. Class.**

Understanding	Application
In ward, the nurse takes care of the patient	In the same way, in class teachers teach the student.

Question 75 :

Statements followed by some conclusions are given below. Statement: 1. M>L>N 2.N = R Conclusions: I. R > L II. R M Find which of the given conclusions logically follows from the given statements.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Only conclusion I follows.
2. Only conclusion II follows.

Both I and II follow.

4. Neither I nor II follows.

Solution :

The correct answer is **option 2 i.e. Only conclusion II follows.**

Understanding	Application
Statement: 1. M>L>N 2.N = R	**Conclusions:** From the statement M>L>N = R I. R > L = False II. R M = **True** Hence, Only conclusion II follows.

Question 76 :

Find the odd statement: Two lines are perpendicular to each other if they are,

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. Adjacent sides of a rectangle.

2. Diagonals of a rhombus.

3. Hypotenuse and one side of right -angle triangle.

4. Adjacent sides of a square.

Solution :

The correct answer is **option 3 i.e. Hypotenuse and one side of a right-angle triangle.**

Understanding

Two lines are perpendicular to each other. A line meeting another at a right angle or 90° is said to be perpendicular to it. Perpendicular lines are lines that intersect at right angles. If you multiply the slopes of two perpendicular lines in the plane, you get 1. That is, the slopes of perpendicular lines are opposite reciprocals.

Question 77 :

If P means '÷' , R means 'x', Q means '+' and S means '-', then 36 P 6 Q 7 R 8 S 11 =

Difficulty : Moderate   **Average Time : 61 Seconds**

Options :

1. 45

2. 51

3. 52

4. 62

Solution :

The correct answer is **option 2 i.e.** 51

Understanding	Application
	36 P 6 Q 7 R 8 S 11 = 36 ÷ 6 + 7 x 8 - 11
P = ÷	6 + 7 x 8 - 11
R = x	6 + 56 - 11
Q = +	62 - 11
S = -	**51**
	Hence, 51 is the correct answer.

Question 78 :

Pointing to K, M said that she was the daughter of the only son of his grandfather. How M is related to K?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Mother
2. Maternal aunt
3. Daughter
4. Sister

Solution :

The correct answer is **option 4 i.e. Sister.**

Understanding	Application
	From the figure, we can see that K is the sister of M.

Question 79 :

If 'are you sam' = 'ri ai ki', 'all hate you' = 'vi li ri' and 'all are fake' = 'mi ai li' then which represents 'hate'?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. ri
2. li
3. vi
4. ai

Solution :

The correct answer is option **3 i.e.** vi.

Understanding	Application
you = ri all = li hate = vi are = ai fake = mi sam = ki	Hence, **hate = vi**

Question 80 :
If CABINET = EIACBTN, then COMPUTE = _____

Difficulty : Moderate   **Average Time : 47 Seconds**

Options :

1. TPOMECU

2. TPOCMEU

3. PTOCMEU

4. CMUEOPT

Solution :
The correct answer is **option 2 i.e. TPOCMEU.**

Understanding	Application

In this type of question, 1st — 3rd (change the position) 2nd — 3rd (change the position) 3rd — 5th (change the position) 4th — 2nd (change the position) 5th — 7th (change the position) 6th — 1st (change the position) 7th — 6th (change the position)	Hence, COMPUTE = **TPOCMEU.**

Question 81 :

Which one does not belong to the group?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Zee

2. Screen

3. Colors

4. Sony

Solution :

The correct answer is **option 2 i.e. Screen.**

Understanding	Application

Zee, Colors, Sony all are the name of the T.V channel	The screen is the flat vertical surface in a television set on which pictures are shown. Hence, the **screen** is the one that does not belong to the group.

Question 82 :

Which of the following is in ascending order?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 0.65, 0.76, 0.67, 0.86

2. 0.65, 0.86, 0.67, 0.76

3. 0.65, 0.67, 0.76, 0.86

4. 0.67, 0.65, 0.76, 0.86

Solution :

The correct answer is option **3 i.e.** 0**.65, 0.67, 0.76, 0.86**

Understanding	Application

In option 1) **0.65, 0.76, 0.67, 0.86** 0.67 is smaller than 0.76 In option 2) **0.65, 0.86, 0.67, 0.76** 0.86 is greater than 0.67 and 0.76 In option 3) **0.65, 0.67, 0.76, 0.86** it is in ascending order. In option 4) **0.67, 0.65, 0.76, 0.86** 0.67 is greater than 0.65	Hence, Option 3 is the correct answer.

Question 83 :

Read the given statements carefully and answer the question. The main reason for vehicles crawling on city roads during peak hours are increasing number of private vehicles and double parking which is a very common sight. A survey reveals that vehicles move on an average at 20 kmph during peak hours. Which of the following is true according to the given statement?

Difficulty : Moderate   **Average Time : 67 Seconds**

Options :

1. Vehicles move at 20 kmph during 5 pm to pm.

2. Double parking is not a violation of traffic rules in the city.

3. The number of private vehicles have gone up.

4. The number of Government vehicles remain the same.

Solution :

The correct answer is **option 3 i.e. The number of private vehicles has gone up.**

Understanding	Application

The number of private vehicles has gone up is the correct answer as in the statement we can see that the main reason for vehicles crawling on city roads during peak hours is **the increasing number of private vehicles** and double parking which is a very common sight.	Hence, The number of private vehicles has gone up is the correct answer.

Question 84 :

Find the similarity in the following: Leopard, Tiger, Jaguar, Lion

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. All of them are found in India.

2. All of them belong to the cat family.

3. All of their young ones are called kittens.

4. There is no similarity.

Solution :

The correct answer is option **2 i.e. All of them belong to the cat family.**

Understanding
The similarity in Leopard, Tiger, Jaguar, Lion is that all of them belong to the cat family.

Question 85 :

Find the odd statement out in relation to firewall.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Firewall can be a software.

2. Firewall can be a hardware.

Firewall can be a combination of software & hardware.

4. Firewall protects computer from fire.

Solution :

The correct answer is option **3 i.e. Firewall can be a combination of software & hardware.**

Understanding
Among all the options, only option 3 is correct.
Firewalls can be implemented as both hardware and software, or a combination of both.

Question 86 :

Read the given statements carefully and answer the question. Spending money should be based on logical decisions and not compulsive or impulsive behavior. One should not fall prey to possible hidden agendas of the sellers who come out with 'sale', 'free offer' etc. Price is what you pay, value is what you should get

Difficulty : Moderate   **Average Time : 62 Seconds**

Options :

1. When you pay for something, look for value.

2. Any discounted sale has a hidden agenda against the consumer,

3. People do compulsive or impulsive and not logical spending.

4. Sellers are cheating the public.

Solution :

The correct answer is **option 1 i.e. When you pay for something, look for value.**

Understanding
Spending money should be based on logical decisions and not compulsive or impulsive behavior. One should not fall prey to possible hidden agendas of the sellers who come out with 'sale', 'free offer' etc. Price is what you pay, value is what you should get
From the above statement, we say that When you pay for something, look for value.

Question 87 :

In a certain code, 327 means "don't cut tree", 635 means 'plant one tree', 138 means 'tree gives shade' and 4953 means 'we must plant tree'. Which digit represents shade?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 1

2. 4

3. 8

4. cannot be determined

Solution :

The correct answer is option **4 i.e.** cannot be determined.

Understanding	Application
327 means "don't cut tree" (1) 635 means "plant one tree" (2) 138 means 'tree gives shade' (3) 4953 means 'we must plant tree' (4)	From (1) and (2) we find tree = 3 We cannot find the code of shade. Hence, **cannot be determined** is the correct answer.

Question 88 :

If the mathematical operators, 'x' means '+' , '÷' means 'x', '+' means '-' and '-' means '÷', then 22 + 36 - 12 x 6 ÷ 4 = ?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. -21

43

3. 68

4. 53

Solution :

The correct answer is option **2 i.e. 43**

Understanding
x = +
÷ = x
+ = -
- = ÷
22 + 36 - 12 x 6 ÷ 4 = **22 - 36 ÷ 12 + 6 x 4**
22 - 3 + 6 x 4
22 - 3 + 24
22 + 21
43

Question 89 :

If F = 6, THE = 33 then WOMAN = ?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 64

2. 65

3. 66

4. 67

Solution :

The correct answer is option **3 i.e. 66.**

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Understanding	Application
F = 6 **(according to the alphabetical number)** T = 20, H = 8, E = 5 **(20 + 8 + 5 = 33)**	W = 23, O = 15, M = 13, A = 1, N = 14 **23 + 15 + 13 + 1 + 14 = 66** **Hence, 66 is the correct answer.**

Question 90 :

Which number will fit in '?' place in the following series? 12, 23, 45, 89, ?

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. 175
2. 176
3. 177
4. 178

Solution :

The correct answer is option **3 i.e. 177.**

Understanding	Application
12, 23, 45, 89, ? 23 - 12 = 11 45 - 23 = 22 89 - 45 = 44 In next term, difference is 44 x 2 = 88	89 + 88 = 177 Hence, **177** is the correct answer.

Question 91 :

Read the given statements carefully and answer the question. Taxes on eating out have been increased. Eating out is not an act of the luxurious. Over-worked and time -pressed poor also need to eat out.

Difficulty : Moderate   Average Time : 55 Seconds

Options :

1. The poor enjoy the luxury of eating out.

2. Eating out is luxury for the poor.

3. Eating out is need-based for the poor also.

4. Tax on eating out must be reduced.

Solution :

The correct answer is **option 3 i.e.** Eating out is need-based for the poor also.

Understanding	Application
Taxes on eating out have been increased. Eating out is not an act of luxury. Over-worked and time-pressed poor also need to eat out.	From the statement, we say **e**ating out is need-based for the poor also.

Question 92 :

Four pairs of words are given. Find the odd one out.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. White: Snow
2. Red : Blood
3. Brown : Sky
4. Green : Grass

Solution :

The correct answer is option **3 i.e. Brown: Sky**

Understanding	Application
Option 1) White: Snow = Snow is white in color. Option 2) Red: Blood = Blood is in red color. **Option 3) Brown: Sky = Sky is not in brown color.** Option 4) Green: Grass = Grass is in green color.	Hence, **Brown: Sky** is the odd one out.

Question 93 :

Four pairs of words are given. Find the odd one out.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Rhombus : Four-sided polygon
2. Nonagon : Seven-sided polygon
3. Octagon : Eight-sided polygon

Hexagon : Six-sided polygon

Solution :

The correct answer is option **2 i.e. Nonagon: seven-sided polygon**

Understanding
Nonagon: seven-sided polygon is **wrong** because the nonagon is a nine-sided polygon or 9-gon.   While a seven-sided shape a heptagon. Hence, Nonagon: seven-sided polygon is the odd one out.

Comprehension :

Consider the following information and answer questions based on it. Six cars S, T, V, W, X and Y are parked in a parking lot, in a random order, from left to right, such that- A. T is parked on the extreme right. B. V is parked to the immediate right of Y and is one car away from W. C. X is to the immediate left of T is three cars away from S.

Question 94 :

Which car is parked to the immediate left of X?

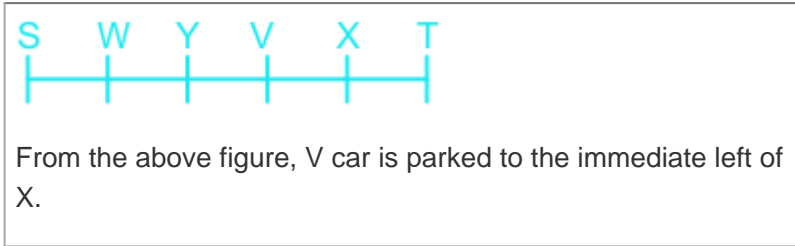**Difficulty : Moderate**

Average Time : 72 Seconds

Options :

1. V

2. Y

3. W

4. T

Solution :

The correct answer is option **1 i.e. V.**

Understanding

S   W   Y   V   X   T

From the above figure, V car is parked to the immediate left of X.

Comprehension :

Consider the following information and answer questions based on it. Six cars S, T, V, W, X and Y are parked in a parking lot, in a random order, from left to right, such that- A. T is parked on the extreme right. B. V is parked to the immediate right of Y and is one car away from W. C. X is to the immediate left of T is three cars away from S.

Question 95 :

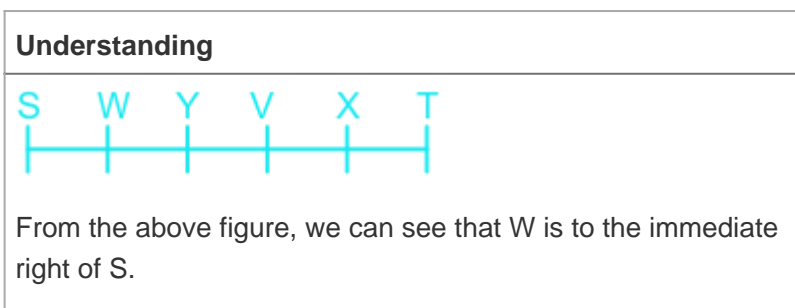W is to the immediate right of which of the following car?

Difficulty : Moderate   Average Time : 69 Seconds

Options :

1. S

2. Y

3. V

4. Cannot be determined

Solution :

The correct answer is option **1 i.e. S.**

Understanding
S   W   Y   V   X   T
From the above figure, we can see that W is to the immediate right of S.

Comprehension :

Consider the following information and answer questions based on it. Six cars S, T, V, W, X and Y are parked in a parking lot, in a random order, from left to right, such that- A. T is parked on the extreme right. B. V is parked to the immediate right of Y and is one car away from W. C. X is to the immediate left of T is three cars away from S.

Question 96 :

Which of the following statement is true?

Difficulty : Moderate   Average Time : 68 Seconds

Options :

1. There are two cars between T and V.

2. There are one car between X and Y.

3. There are three cars between Y and S.

4. There is no car between X and W.

Solution :

The correct answer is option **2 i.e.** There is one car between X and Y.

Understanding
S   W   Y   V   X   T From the above figure, we see that there is one car between X and Y which is V. Hence, the statement in Option 2 is the correct answer.

Question 97 :

An Assertion (A) and a Reason (R) are given below. Assertion (A): We feel comfortable in the hot and humid climate. Reason (R): Sweat evaporates faster in a humid climate. Choose the correct option.

Difficulty : Moderate   Average Time : 69 Seconds

Options :
1. A is true but R is false.

A is false but R is true.

3. Both A and R are true and R is the correct explanation of A.

4. Both A and R are false

Solution :

The correct answer is **Option 4**, i.e. **Both A and R are false.**

Concept	Understanding
Data Sufficiency	The assertion is False since we start to sweat and feel uncomfortable in a hot and humid climate The reason is also false since in humid climate already a lot of moisture is present outside hence the rate of evaporation is decreased.

Question 98 :

Rearrange the jumbled up letters in their natural sequence and find the odd one out.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. LAFC

2. UKCGIDLN

3. RILNIGHE

4. BCU

Solution :

The correct answer is **Option 3**, i.e. **RILNIGHE.**

Concept	Understanding

| Sentence Jumbles | The given words can be arranged in their natural sense in the following way:

1) LAFC CALF

2) UKCGIDLN DUCKLING

3) RILNIGHE No word can be made

4) BCU CUB

Hence Option 3 will be the answer. |

Question 99 :

Choose the pair which is related in the same way as the words in the first pair from the given choices Mosquito : Malaria : :_____ : _____

Difficulty : Moderate   **Average Time : 57 Seconds**

Options :

1. Housefly : Food

2. Road : Accident

3. Soil : Erosion

4. Tobacco : Cancer

Solution :

The correct answer is **Option 4**, i.e. **Tobacco : Cancer.**

Concept	Understanding
Analogy	As Malaria is caused by the bite of the female Mosquito in a similar way Certain type of Cancer is caused by Tobacco.

Question 100 :

In the following expression '' stands for '>'; '' stands for''; '' stands for 'not greater than'; '?' stands for 'not less than'; '' stands for '='. If 3C ? 2A and B C, then which of the following statement is true?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 3 2A

2. B A

3. 3B 2A

4. 2A 3B

Solution :

The correct answer is **Option 3**, i.e. **3B 2A.**

Concept	Understanding
Coding-Decoding	3C? 2A implies 3C >= 2A which means C>=2A/3 and B C implies B > C. so substitute the value of C in terms of A in the last equation given we get: B>=2A/3 which means 3B>=2A which is denoted by 3B 2A

Rrb Ntpc CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Ntpc CBT - 1 Previous Year Question Paper held on 2016-04-09 in the Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 68 marks.
3. 100 questions were asked from CBT -1 and 100 questions were asked from CBT -1
4. 0 questions should have been skipped if you were short of time.

Rrb Ntpc CBT - 1 Previous Year Question PaperTopic Wise Weightage

CBT -1

Rrb Ntpc CBT - 1 Previous Year Question Paper Tips and Tricks

1. Try to solve Rrb Ntpc CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Ntpc CBT - 1 Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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