



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 2016-04-12 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 :

Who invented the mobile phone?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. Joseph Wilson
2. Edwin Land
3. Martin Cooper
4. John Llyod Wright

Solution :

The correct option is option 3 i.e. Martin Cooper.

Martin Cooper	Martin "Marty" Cooper (born December 26, 1928) is an American engineer.
	He is a pioneer in the wireless communications industry , especially in radio spectrum management, with eleven patents in the field.

Mobile Phone	A mobile phone, cellular phone, cell phone, cellphone or handphone, sometimes shortened to simply mobile, cell or just phone, is a portable telephone that can make and receive calls over a radio frequency link while the user is moving within a telephone service area.
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Question 2 :

What denotes learned and shared beliefs and behaviours?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Culture
2. Ethnicity
3. Group
4. Descent

Solution :

The correct option is option 1 i.e. Culture.

Culture	Culture is the patterns of learned and shared behaviour and beliefs of a particular social, ethnic, or age group.
	It can also be described as the complex whole of collective human beliefs with a structured stage of civilization that can be specific to a nation or time period.
	It is a shared set of beliefs, values, and patterns of behaviour learned and taught by socialization.

Question 3 :

Who invented bifocal glasses?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

Thomas Elva Edison

2. Benjamin Franklin

3. Evangelista

4. Isaac Newton

Solution :

The correct option is option 2 i.e. Benjamin Franklin.

Benjamin Franklin	He invented bifocal glasses.
	Bifocals are eyeglasses with an upper and lower half, the upper for distance, and the lower for reading.
	Bifocals are commonly prescribed to people with presbyopia, a condition that Franklin suffered.

Question 4 :

When is International Day for Preservation of Ozone layer observed?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. September 16

2. July 4

3. January 23

4. May 1

Solution :

The correct option is option 1 i.e. September 16.

International Day for Preservation of Ozone layer	September 16 was designated by the United Nations General Assembly as the International Day for the Preservation of the Ozone Layer.
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	This designation had been made on December 19, 2000, in commemoration of the date, in 1987, on which nations signed the Montreal Protocol on Substances that Deplete the Ozone Layer.
	Since 1995, International Ozone Day is observed on 16 September.

Question 5 :

Which queen of Ahmednagar opposed Akbar?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Rani Durgavati
2. Zeenat Mahal
3. Chand Bibi
4. Razia Sultan

Solution :

The correct option is option 3 i.e. Chand Bibi.

Chand Bibi	Chand Bibi (1550–1599 CE), was an Indian Muslim regent and warrior.
	She acted as the Regent of Bijapur (1580–90) and Regent of Ahmednagar (in current-day Maharashtra) (1596–99).
	Chand Bibi is best known for defending Ahmednagar against the Mughal forces of Emperor Akbar in 1595.

Question 6 :

What does UFO stand for?

Difficulty : Moderate

Average Time : 52 Seconds

Options :



Under Fire Object

2. Unidentified Flying Object
3. Unapproved Foreign Object
4. Unidentified Free Object

Solution :

The correct option is option 2 i.e. Unidentified Flying Object.

UFO	Unidentified Flying Object
	It is any unexplained moving object observed in the sky, especially one assumed by some observers to be of extraterrestrial origin.

Question 7 :

Which sport has the highest rank of Yokozuna?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Sumo wrestling
2. Judo
3. Jujitsu
4. Kendo

Solution :

The correct option is option 1 i.e. Sumo wrestling.

Sumo Wrestling	Yokozuna is the highest rank in Sumo Wrestling.
	There are merely some 71 recorded Yokozunas in the history until now since its inception.
	It was not recorded on the banzuke until 1890.

Question 8 :



What of the following refers to the hypotheses which are confirmed by varied tests?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Assumption
2. Theory
3. Answer
4. Opinion

Solution :

The correct option is option 3 i.e. Answer.

Answer	It is a thing that is said, written, or done as a reaction to a question, statement, or situation.
	In law, an Answer was originally a solemn assertion in opposition to someone or something, and thus generally any counter-statement or defence, a reply to a question or response, or objection, or a correct solution of a problem.

Question 9 :

What does PDA stand for?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Personal Data Assistant
2. Personal Digital Assistant
3. Prime Data Assistant
4. Prime Digital Assistant

Solution :

The correct option is option 2 i.e. Personal Digital Assistant.

Personal Digital Assistant	PDA is a mobile device without a keyboard, but with a screen to write or draw the words with the help of a pen-like stylus.
	They have the capabilities to take notes, read graphs, connect to the internet, upload and download.
	They are also known as a palmtop, handheld computer.

Question 10 :

Name the architect who designed New Delhi?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Le Corbuiser
2. Sir Edwin Lutyens
3. Andrew Paul
4. George Baker

Solution :

The correct option is option 2 i.e. Sir Edwin Lutyens.

Sir Edwin Lutyens	The foundation stone of New Delhi was laid by Emperor George V during the Delhi Durbar of 1911.
	Sir Edwin Lutyens and Sir Herbert Baker were famous English architects who played a key and instrumental role in designing and building the cities of Shahjahanabad (Old Delhi) and New Delhi, which in 1931 was the capital of the British and later (post India's independence) went on to serve as the official headquarters
	The new capital was inaugurated on 13 February 1931, by Viceroy and Governor-General of India Lord Irwin.

Question 11 :

Battle of Plassey was fought by the British under the leadership of

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Robert Clive
2. Lord Dalhousie
3. Warren Hastings
4. James Heartyly

Solution :

The correct option is option 1 i.e. Robert Clive.

Battle of Plassey, 1757	Robert Clive bribed Mir Jafar , the commander-in-chief of the Nawab's army, and also promised him to make him Nawab of Bengal.
	Clive defeated Siraj-ud-Daulah at Plassey in 1757 and captured Calcutta.
	promised him to make him Nawab of Bengal. Clive defeated Siraj-ud-Daulah at Plassey in 1757 and captured Calcutta.

Question 12 :

In which state is the Valley of Flowers park situated?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Uttarakhand
2. Himachal Pradesh
3. Jammu & Kashmir
4. Assam

Solution :

The correct option is option 1 i.e. Uttarakhand.

Valle of Flowers	Valley of Flowers National Park is an Indian national park, located in North Chamoli, in the state of Uttarakhand and is known for its meadows of endemic alpine flowers and the variety of flora.
	This glaring piece of nature is an Indian National Park and a UNESCO World Heritage Site in the year 1982 exhibiting lush meadows blossomed with endemic alpine flowers and diverse fauna in this valley.

Question 13 :

Who replaced B.S. Bassi as the Delhi Police Commissioner?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Alok Kumar Verma
2. Rakesh Marha
3. Dattatray Padsalgikar
4. Neeraj Kumar

Solution :

The correct option is option 1 i.e. Alok Kumar Verma.

Alok Verma	Alok Verma, a 1979 batch IPS officer of the Union Territories cadre will be next commissioner of police in Delhi.
	Senior IPS officer Alok Verma will replace BS Bassi as Delhi Police commissioner when the latter retires on February 29.

Question 14 :

Who is considered as the Father of Modern Indian Renaissance?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Mahatma Gandhi

Sardar Vallabhbhai Patel

3. Vinoba Bhave

4. Raja Ram Mohan Roy

Solution :

The correct option is option 4 i.e. Raja Ram Mohan Roy.

Raja Ram Mohan Roy	Raja Ram Mohan Roy is considered to be the father of modern Indian renaissance.
	He campaigned for the abolition of the practice of Sati and caste system and demanded property rights for women.
	He founded Brahma Samaj in 1828.

Question 15 :

Who invented Band-aid?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Earle Dickinson
2. Alan Gant
3. Louis Pasteur
4. Fank Epperson

Solution :

The correct option is option 1 i.e. Earle Dickinson.

Band-aid	The Band-Aid was invented in 1920 by a Johnson & Johnson employee, Earle Dickson in Highland Park, New Jersey for his wife Josephine, who frequently cut and burned herself while cooking in the 1920s.
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Question 16 :

Which of the following refers to the number of pixels per inch, printed on a page?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Print Margin
2. Resolution
3. Filter
4. Colour mode

Solution :

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

Resolution	Resolution is the image quality produced by a printer or displayed on a monitor.
	With monitors, the resolution is measured by the number of pixels horizontal by pixels vertically as shown in the picture. Printers also have a measure of the resolution called DPI (dots per inch)
	It refers to the sharpness and clarity of an image.

Question 17 :

In which generation of computer was the mechanical language for programming used?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. First
2. Second
3. Third
4. Fourth

Solution :

The correct option is option 1 i.e. First.

First-generation of computers	A first-generation (programming) language (1GL) is a grouping of programming languages that are machine level languages used to program first-generation computers.
	Originally, no translator was used to compile or assemble the first-generation language.
	Machine language is programming language were used in first-generation computers .

Question 18 :

Which is the fastest animal in the world?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Dog
2. Cheetah
3. Tiger
4. Horse

Solution :

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

Cheetah	The fastest land animal is the cheetah , which has a recorded speed of between 109.4 km/h (68.0 mph) and 120.7 km/h (75.0 mph).
	The cheetah is a large cat native to Africa and central Iran.
	It is the fastest land animal, capable of running at 80 to 128 km/h, and as such has several adaptations for speed, including a light build, long thin legs and a long tail.

Question 19 :

Who was the American astronaut who returned to Earth after spending 340 days in International Space Station?

Difficulty : Moderate

Average Time : 59 Seconds

**Options :**

1. Scott Kelly
2. Mikhail Kornienko
3. Eric Boe
4. Douglas Hurley

Solution :

The correct option is option 1 i.e. Scott Kelly.

Scott Kelly	Scott Kelly returned to Earth from the International Space Station March 1 after 340 days as part of NASA's ambitious yearlong space station mission.
	The American Astronaut Who Spent a Year in Space.
	Joining their return trip aboard a Soyuz TMA-18M spacecraft was Sergey Volkov, also of the Russian space agency Roscosmos, who arrived on the station Sept. 4, 2015.

Question 20 :

A knife is an example of

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Lever
2. Wedge
3. Inclined Plane
4. Pulley

Solution :

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

Wedge	A wedge is a triangular-shaped tool and is a portable inclined plane, and one of the six classical simple machines.
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	It can be used to separate two objects or portions of an object, lift up an object, or hold an object in place.
	Common examples of wedges include shovels, teeth, some screwdrivers, a saw, a needle, scissors, and ice picks; or wedges that hold things together like staples, push pins, and tacks.

Question 21 :

The famous tennis player Steffi Graf belongs to which among the following countries?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. USA
2. England
3. Germany
4. Switzerland

Solution :

The correct option is option 3 i.e. Germany.

Steffi Graf	Stefanie Maria "Steffi" Graf is a German former professional tennis player.
	She was ranked world No. 1 for a record 377 weeks and won 22 Grand Slam singles titles , which ranks second since the introduction of the Open Era in 1968 and third all-time behind Margaret Court and Serena Williams.
	Born on June 14, 1969, in Mannheim, West Germany, Steffi Graf entered pro tennis at 13 and became one of the sport's top players.

Question 22 :

When two liquids do not mix with each other to form a solution, what is it called?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Solvent
2. Solute
3. Immiscible
4. Decantation

Solution :

The correct option is option 3 i.e. Immiscible.

Immiscible	Miscibility is the property of two substances to mix in all proportions, forming a homogeneous solution.
	Immiscibility is the property where two substances are not capable of combining to form a homogeneous mixture.
	Components of an immiscible mixture will separate from each other.

Question 23 :

Glaciers are formed by

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Melting snow
2. Accumulation of snow
3. Heavy hail fall
4. High rainfall

Solution :

The correct option is option 2 i.e. Accumulation of snow.

Glaciers	A glacier is a huge mass of ice that moves slowly over land.
	The term " glacier " comes from the French word glace (glah-SAY), which means ice. Glaciers are often called "rivers of ice."

Glaciers fall into two groups: alpine **glaciers** and ice sheets. Alpine **glaciers** form on mountainsides and move downward through valleys.

Question 24 :

How many astronauts have walked the moon?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 2
2. 5
3. 8
4. 12

Solution :

The correct option is option 4 i.e. 12.

Astronauts	In total 12 astronauts have walked on the moon, including Armstrong and Aldrin.
	The other 10 who made it to the moon took part in five further Nasa launches, between 1969 and 1972.
	Twelve people have walked on Earth's Moon, starting with Neil Armstrong and ending with Gene Cernan.

Question 25 :

Who was sworn in as the Prime Minister of Nepal in 2015?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Sushil Koilara
2. Bidya Devi Bhandari

Khadga Prasad Sharma Oli

4. Kul Bahadur Gurung

Solution :

The correct option is option 3 i.e. Khadga Prasad Sharma Oli.

Khadga Prasad Sharma Oli	Khadga Prasad Sharma Oli, more commonly known as KP Sharma Oli, is a Nepalese politician and the current Prime Minister of Nepal.
	Oli previously served as prime minister from 11 October 2015 to 3 August 2016 and was the first elected prime minister under the newly adopted Constitution of Nepal.
	He is 68 years old.

Question 26 :

Who is the current FIFA president?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Sepp Blatter
2. Gianni Infantino
3. Issa Hayatou
4. Dunga

Solution :

The correct option is option 2 i.e. Gianni Infantino.

Gianni Infantino	Infantino was re-elected FIFA president for a four-year term.
	Swiss national Gianni Infantino elected by acclamation as the sole candidate at the FIFA Congress in Paris.
	Gianni Infantino was re-elected as president of the football governing body FIFA for a four-year term until 2023.

**Question 27 :**

Who won the 2015 Australian Grand Prix?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Lewis Hamilton
2. Kimi Raikkonen
3. Jenon Button
4. Sebastian Vettel

Solution :

The correct option is option 1 i.e. Lewis Hamilton.

Lewis Hamilton	Lewis Hamilton has won the first race of the brand new 2015 F1 season with ease in Australia.
	He won his 35th Formula grand Prix race in Melbourne.
	His teammate Nico Rosberg finished second. Ferrari's new driver Sebastian Vettel was able to get a podium by finishing 3rd.

Question 28 :

What are the waves that are used to penetrate solids and are used by doctors and at airports?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Sound wave
2. X-rays
3. Electro magnetic
4. Mechanical

Solution :

The correct option is option 2 i.e. X-rays.

X-rays	X-ray waves are used to penetrate solids and are used in doctor's offices and as airports.
	X-rays are a very energetic form of electromagnetic radiation that can be used to take images of the human body.
	X-rays are types of electromagnetic radiation probably most well-known for their ability to see through a person's skin and reveal images of the bones beneath it.

Question 29 :

What is the process of slow cooling of hot glass is called?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Annealing
2. Humidifying
3. Condensation
4. Decantation

Solution :

The correct option is option 1 i.e. Annealing.

Annealing	In metallurgy and materials science, annealing is a heat treatment that alters the physical and sometimes chemical properties of a material to increase its ductility and reduce its hardness, making it more workable.
	Annealing of glass is a process of slowly cooling hot glass objects after they have been formed, to relieve residual internal stresses introduced during manufacture.

Question 30 :

In which schedule to the constitution of India is the list of States and Union Territories are given?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. First schedule
2. Second schedule
3. Fourth schedule
4. Sixth schedule

Solution :

The correct option is option 1 i.e. First schedule.

First schedule	Lists the states and territories of India (also about their changes).
	The world's lengthiest written constitution had 395 articles in 22 parts and 8 schedules at the time of commencement. Now the Constitution of India has 448 articles in 25 parts and 12 schedules.
	There are 104 amendments (took place on 25th January 2020 to extend the reservation of seats for SCs and STs in the Lok Sabha and states assemblies) that have been made in the Indian constitution so far.

Question 31 :

Milk of Magnesia is used as a

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Laxative
2. Pain Killer
3. Sedative
4. Antibiotic

Solution :

The correct option is option 1 i.e. Laxative.

Laxative	Milk of Magnesia reduces stomach acid and increases water in the intestines which may induce bowel movements.
	Milk of Magnesia is used as a laxative to relieve occasional constipation.
	Milk of Magnesia is also used as an antacid to relieve indigestion, sour stomach, and heartburn.

Question 32 :

In which state is the Koyna dam located?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Madhya Pradesh
2. Rajasthan
3. Maharashtra
4. Gujarat

Solution :

The correct option is option 3 i.e. Maharashtra.

Koyna Dam	The Koyna Dam is one of the largest dams in Maharashtra, India.
	It is a rubble-concrete dam constructed on Koyna River which rises in Mahabaleshwar, a hill station in Sahyadri ranges.
	It is located in Koyna Nagar, Satara district, nestled in the Western Ghats on the state highway between Chiplun and Karad

Question 33 :

Which planet is the nearest in size to Earth?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Mercury
2. Mars
3. Venus
4. Saturn

Solution :

The correct option is option 3 i.e. Venus.

Venus	Venus is most like Earth in terms of mass and size, and it is also the planet closest to Earth, but the two planets are far from identical twins.
	Venus is the second planet from the Sun.
	It is named after the Roman goddess of love and beauty.

Question 34 :

Who constructed the Hawa Mahal?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Maharaja Bhawat Singh
2. Maharaja Jagatjit Singh
3. Maharaja Sawai Pratap Singh
4. Maharaja Jaswant Singh

Solution :

The correct option is **option 3** i.e. **Maharaja Sawai Pratap Singh**.

Maharaja Sawai Pratap Singh	The structure was built in 1799 by Maharaja Sawai Pratap Singh , the grandson of Maharaja Sawai Jai Singh, who was the founder of Jaipur.
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	He was so inspired by the unique structure of Khetri Mahal that he built this grand and historical palace.
	It was designed by Lal Chand Ustad.

Question 35 :

Which king's story is the subject of the play Mudrarakshasa?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Jaychand
2. Chandra Gupta II
3. Chandrapeeda
4. Chandragupta Maurya

Solution :

The correct option is option 4 i.e. Chandragupta Maurya.

Chandragupta Maurya	The Mudrarakshasa ("Signet Ring of the Rakshasa, the chief minister of the last Nanda king"), a historical play in Sanskrit by Vishakhadatta (4th century CE) narrates the ascent of the king Chandragupta Maurya to power in Northern India with the aid of Chanakya, his Guru and chief minister.
	The historical authenticity of the Mudrarakshasa is somewhat supported by the description of this period of history in Classical Hellenistic sources : the violent rule of the Nanda, the usurpation of Chandragupta, the formation of the Maurya Empire, and the various battles with the kingdoms of the Northwest resulting from the conquests of Alexander the Great.

Question 36 :

Who was responsible for building the Great Wall of China?

Difficulty : Moderate

Average Time : 68 Seconds



Options :

1. Qin Shi Huang
2. Fa Hien
3. Xuanjang or Hieun Tsang
4. Yijing

Solution :

The correct option is option 1 i.e. Qin Shi Huang.

Qin Shi Huang	The Great Wall of China is an ancient series of walls and fortifications, totalling more than 13,000 miles in length, located in northern China.
	the Great Wall was originally conceived by Emperor Qin Shi Huang in the third century B.C. as a means of preventing incursions from barbarian nomads.
	The best-known and best-preserved section of the Great Wall was built in the 14th through 17th centuries A.D., during the Ming dynasty.

Question 37 :

Martin Crowe, who passed away was the former cricket captain of which country?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Australia
2. England
3. New Zealand
4. South Africa

Solution :

The correct option is option 3 i.e. New Zealand.

Martin Crowe	Martin David Crowe MBE (22 September 1962 – 3 March 2016) was a New Zealand former cricketer, Test and ODI captain as well as a commentator.
	He played for the New Zealand national cricket team between 1982 and 1995 and is regarded as the country's greatest batsman.
	Former New Zealand captain Martin Crowe has died of cancer at the age of 53.

Question 38 :

Which among the following is called quicksilver?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Titanium
2. Mercury
3. Platinum
4. Radium

Solution :

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

Mercury	Mercury is a chemical element with the symbol Hg and atomic number 80.
	It is commonly known as quicksilver and was formerly named hydrargyrum.
	Mercury is the only metal that is liquid at room temperature.

Question 39 :

Which of the following is a vertebrate?

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. Kiwi
2. Sponges
3. Star fish
4. Threadworm

Solution :

The correct option is option 1 i.e. Kiwi.

Kiwi	Kiwis , the squat vertebrates endemic to New Zealand —not to be confused with the hairy fruit—are odd birds.
	The endangered, chicken-sized kiwi is the smaller cousin of species like the ostrich and the emu but shares more characteristics with mammals than the average fowl.
	A vertebrate is an animal with a spinal cord surrounded by cartilage or bone. The word comes from vertebrae, the bones that make up the spine.

Question 40 :

Where is mosque, Adhai din ka Jhonpra located?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Agra
2. Ajmer
3. Ahmedabad
4. Mt. Abu

Solution :

Correct Answer is option 2 i.e. Ajmer



Adhai din ka
Jhonpra:

- Adhai Din Ka Jhonpra is a large and imposing structure in the city of Ajmer in Rajasthan, India.
- It is one of the oldest mosques in India, and the oldest surviving monument in Ajmer.
- It is said to be built within two and a half days by the order of Mohammad Ghori.

Question 41 :

Evaporation of water from leaves of a plant is called _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Transpiration
2. Respiration
3. Perspiration
4. Evaporation

Solution :

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

- Evaporation of water from leaves of a plant is called **Transpiration**.
- It is the process by which **water** is carried through **plants** from roots to small pores on the underside of **leaves**, where it changes to vapor and is released to the atmosphere.
- It is the main driver of water movement in the xylem.
- Water is absorbed through the root hairs, is transported through the plant due to osmosis, and exits through the stomata and evaporates.
- Transpiration is important because water is needed for photosynthesis and because water cools a plant off.

Comprehension :

In the following questions are to be based on the details given below: A salesman visits 274 houses in a town to find out the views about three products X, Y, Z. He found that 157 use X, 98 use only X, 22 use all the three, 14 use X and Z but not Y, 39 use Y and Z, 48 use only Y.

Question 42 :

What fraction used at least two products?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 67/274
2. 76/274
3. 73/274
4. 37/274

Solution :

The correct answer is **option 2** i.e. **76/274**

Understanding

Given,

Only X and Z = 14

Only Y = 48

Only X = 98

Y and Z = 39

x = 157

All three = 22

Total member = 274

Application

$$(i) 157 - (22 + 98 + 14) = 23$$

$$(ii) 39 - 22 = 17$$

$$\text{Only Z} = 274 - (48 + 98 + 22 + 14 + 17 + 23)$$

$$= 274 - 222 = 52$$

Now,

$$274 - (48 + 98 + 52) = 274 - 198 = 76$$

$$\text{Atlest 2 product use} = 76/274$$

Comprehension :

In the following questions are to be based on the details given below: A salesman visits 274 houses in a town to find out the views about three products X, Y, Z. He found that 157 use X, 98 use only X, 22 use all the three, 14 use X and Z but not Y, 39 use Y and Z, 48 use only Y.

Question 43 :

How many use product Z only?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 10
2. 50
3. 52
4. 25

Solution :

The correct answer is **option 3** i.e. **52**

Understanding

Given,

Only X and Z = 14

Only Y = 48

Only X = 98

Y and Z = 39

x = 157

All three = 22

Total member = 274

Application

$$(i) 157 - (22 + 98 + 14) = 23$$

$$(ii) 39 - 22 = 17$$

$$\begin{aligned} \text{Only Z} &= 274 - (48 + 98 + 22 + 14 + 17 + 23) \\ &= 274 - 222 = 52 \end{aligned}$$

Comprehension :

In the following questions are to be based on the details given below: A salesman visits 274 houses in a town to find out the views about three products X, Y, Z. He found that 157 use X, 98 use only X, 22 use all the three, 14 use X and Z but not Y, 39 use Y and Z, 48 use only Y.

Question 44 :

Which product is the most popular one?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. X
2. Y
3. Z
4. Both X and Z

Solution :

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

Understanding

Given,

Only X and Z = 14

Only Y = 48

Only X = 98

Y and Z = 39

x = 157

All three = 22

Total member = 274

Application

(i) $157 - (22 + 98 + 14) = 23$

(ii) $39 - 22 = 17$

Only Z = $274 - (48 + 98 + 22 + 14 + 17 + 23)$

= $274 - 222 = 52$

Now x user = 157

Y user = $48 + 22 + 39 = 109$

Z user = $52 + 22 + 14 + 39 = 127$

Hence, user of product X is most.

Comprehension :

The table below depicts the Number of Books sold by 5 cities during 5 months. Study the following table and answer the questions:

Months	City A	City B	City C	City D	City E
June	213	200	195	253	229
July	156	208	216	187	175
August	177	197	185	181	215
September	220	145	235	265	231
october	253	188	278	243	249

Question 45 :

What is the average number of books sold by City C in July, September and October together?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 243

242

3. 234

4. 224

Solution :The correct answer is **option 1** i.e. **243**

Understanding
From table C in July = 216 C in September = 235 C in October = 278
Application
Average = $(216 + 235 + 278)/3 = 729/3 = 243$

Comprehension :

The table below depicts the Number of Books sold by 5 cities during 5 months. Study the following table and answer the questions: Months City A City B City C City D City E June 213 200 195 253 229 July 156 208 216 187 175 August 177 197 185 181 215 September 220 145 235 265 231 October 253 188 278 243 249

Question 46 :

What is the respective ratio between the total number of books sold by city A in July and September together and the total number of books sold by City E in August and October together?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 57 : 49

2. 49 : 57

3. 58 : 47

4. 47 : 58

Solution :The correct answer is **option 4** i.e. **47 : 58**

Understanding

We pick data from the table,

$$A \text{ in (July + sept)} = 156 + 220 = 376$$

$$E \text{ in (Aug + oct)} = 215 + 249 = 464$$

Application

$$\text{Ratio} = 376 : 464 = 47 : 58$$

Comprehension :

The table below depicts the Number of Books sold by 5 cities during 5 months. Study the following table and answer the questions:

Months	City A	City B	City C	City D	City E
June	213	200	195	253	229
July	156	208	216	187	175
August	177	197	185	181	215
September	220	145	235	265	231
october	253	188	278	243	249

Question 47 :

If 30% of the total number of books sold by City B, D and E together in July were academic books, how many non-academic books were sold by the cities together in the same month?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 379
2. 389
3. 399
4. 309

Solution :

The correct answer is **option 3** i.e. **399**

Understanding

We pick data from the table,

$$(B + D + E) \text{ in July} = 208 + 187 + 175 = 570$$

Given 30% are academic books



Application

Non academic books = $(100 - 30)\% = 70\%$

70% of 570 = $(570/100) 70 = 399$

Question 48 :

Find the total Simple Interest on Rs.500 at 7% per annum on Rs.700 at 10% per annum and on Rs.1000 at 4% per annum for 3 years

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 435
2. 500
3. 700
4. 1000

Solution :

The correct answer is option 1 i.e. Rs 435

Understanding

Formula:

Intrest amount on SI = $(P/100)rt$

1st P = 500 at 7%

Intrest amount = $(500/100) 7 \times 3 = 5 \times 7 \times 3 = 105$

2nd P = 700 at 10%

Intrest amount = $(700/100) 10 \times 3 = 7 \times 10 \times 3 = 210$

3rd P = 1000 at 4%

Intrest amount = $(1000/100) 4 \times 3 = 10 \times 4 \times 3 = 120$

Application

Total SI = $105 + 210 + 120 = \text{Rs } 435$

**Question 49 :**

If 70% of $\frac{5}{7}$ th of a number is 90, find the number

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 150
2. 180
3. 160
4. 190

Solution :

The correct answer is option 2 i.e. 180

Understanding/Application

$$90 = \frac{5}{7} \times 70\%$$

$$\text{So, } 70\% = \left(\frac{90 \times 7}{5}\right) = 126$$

$$100\% = \left(\frac{126 \times 100}{70}\right) = 180$$

Question 51 :

If S is the midpoint of a straight line PQ and R is a point different from S, such that $PR=PQ$, then

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. $\angle PRS=90^\circ$
2. $\angle QRS=90^\circ$
3. $\angle PSR=90^\circ$
4. $\angle QSR=90^\circ$

Solution :

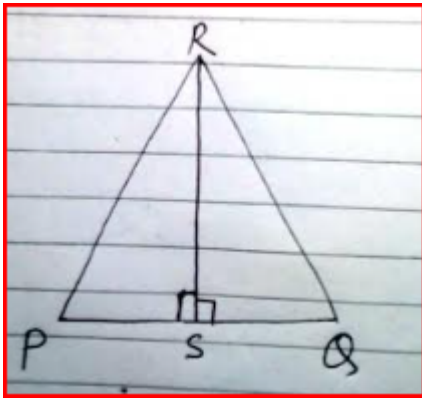
The correct answer is option 3 i.e. $\angle PSR=90^\circ$

Understanding

Given

$$PQ = PR$$

$$PS = SQ \text{ (S is the midpoint on PQ)}$$



Application

$$\angle PSR = 90^\circ \text{ (single possibility according to options)}$$

Question 52 :

The mean of a distribution is 15 and the standard deviation is 5. What is the value of the coefficient variation?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 16.66%
2. 66.66%
3. 33.33%
4. 100%

Solution :

The correct answer is option 3 i.e. 33.33%

Understanding



Given,

Mean = 15

SD = 5

Formula:

coefficient of variation = $(SD/Mean) 100\%$

Application

coefficient of variation = $(5/15) 100\%$

= $(1/3) 100\%$

= 33.33%

Question 53 :

Find the LCM of the following fractions: $2/3$, $8/9$, $16/27$, $32/81$.

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. $32/81$
2. $81/32$
3. $32/3$
4. $11/41$

Solution :

The correct answer is option 3 i.e. $32/3$

Understanding



Given,

$\frac{2}{3}, \frac{8}{9}, \frac{16}{27}, \frac{32}{81}$

For, LCM of fractions

= LCM of numerator/HCF of denominator

LCM of 2, 8, 16, 32 = 32

HCF of 3, 9, 27, 81 = 3

Hence LCM of $\frac{2}{3}, \frac{8}{9}, \frac{16}{27}, \frac{32}{81}$ is $\frac{32}{3}$.

Question 54 :

If the standard deviation of a population is 3, what would be the population variance?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 9
2. 6
3. 8
4. 15

Solution :

The correct answer is option 1 i.e. 9

Understanding/Application

Given,

SD = 3

Formula:

variance = (standard deviation)

So,

SD = $3^2 = 9$

Question 55 :

In a number system, on dividing 11509 by a certain number, mukesh gets 71 as quotient and 7 as remainder. What is the divisor?

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

1. 132
2. 172
3. 182
4. 162

Solution :

The correct answer is option 4 i.e. 162

Understanding

Given,

Dividend = 11509

Quotient = 71

Remainder = 7

Formula:

Dividend = Quotient x Divisor + Remainder

Application

Divisor = (Dividend - Remainder)/Quotient

= $(11509 - 7)/71 = 11502/71 = 162$ **Question 56 :**

Find the degree of the polynomial $8x^4+2x^2y^3+4$

Difficulty : Moderate**Average Time : 43 Seconds****Options :**



4

2. 5

3. 0

4. 1

Solution :

The correct answer is option 2 i.e. 5

Understanding

$$8x^4 + 2x^2y^3 + 4$$

degree is four which is known as the highest power. But here two-variable "x" and "y" so add the power i.e. $(2 + 3) = 5$

Hence, degree is 5.

Question 57 :Find the products : $0.5 \times 0.05 \times 0.005 \times 500$ **Difficulty : Moderate****Average Time : 44 Seconds****Options :**

1. 0.0625

2. 0.00625

3. 0.06255

4. 0.625

Solution :

The correct answer is option 1 i.e. 0.0625

Understanding/Application



Given,

$$0.5 \times 0.05 \times 0.005 \times 500$$

$$5/10 \times 5/100 \times 5/1000 \times 500$$

$$(5 \times 5 \times 5 \times 500)/(10 \times 100 \times 1000)$$

$$(5 \times 5 \times 5 \times 5)/(10 \times 100 \times 10)$$

$$(625)/(10000)$$

$$0.0625$$

Question 58 :

In a college, 25% male faculties are same in number as 1/3rd of the female faculties. What is the ratio of male faculty to female faculty in that college?

Difficulty : Moderate**Average Time : 49 Seconds****Options :**

1. 4:3

2. 3:4

3. 2:3

4. 3:2

Solution :

The correct answer is option 1 i.e. 4:3

Understanding



Given,

25% male = $\frac{1}{3}$ female

Let female = 300

$\frac{1}{3}(300) = 100$

So,

Male = $(\frac{100}{25})100 = 400$

M:F = 400:300 = 4:3

OR

M:F = $\frac{1}{4}$ m = $\frac{1}{3}$ f

M:F = 4:3

Question 59 :

If $(7x + 5)^\circ$ and $(x + 5)^\circ$ are complementary angles, then find the value of x.

Difficulty : Moderate**Average Time : 43 Seconds****Options :**

1. 10°
2. 20°
3. 30°
4. 40°

Solution :

The correct answer is **option 1** i.e. 10°

Understanding

Given,

$$1\text{st angle} = (7x + 5)^\circ$$

$$2\text{nd angle} = (x + 5)^\circ$$

Formula:

$$\text{Sum of complimentary angle} = 90^\circ$$

Application

$$(7x + 5)^\circ + (x + 5)^\circ = 90^\circ$$

$$8x + 10 = 90^\circ$$

$$x = 80/8 = 10^\circ$$

Question 60 :

Jalal, Amit and Feroz enter into partnership. Jalal invests 4 times as much as Amit invests three-fourth of what Feroz invests. At the end of the financial year, the profit earned is Rs. 19,000. Find the share for Jalal.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Rs. 15,000
2. Rs. 12,000
3. Rs. 13,000
4. Rs. 10,000

Solution :

The correct answer is option 2 i.e. Rs 12000

Understanding



Given,

Total profit = 19000

Firoz = x

Amit = $(3/4)x$

Jalal = $4 [(3/4)x] = 3x$

Multiply each by 4, we get

F:A:J = $4x:3x:12x = 4:3:12$

Sum of investment = $4 + 3 + 12 = 19$

Application

Jalal share = $(19000/19) \times 12 = 12000$

Question 61 :

12 men and 16 women together can complete a work in 4 days. It takes 80 days for one man alone to complete the same work, then how many days would be required for one woman alone to complete the same work?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 160
2. 150
3. 130
4. 175

Solution :

The correct answer is option 1 i.e. 160

Understanding



Given,

$$12 \text{ men} + 16 \text{ women} = 4 \text{ days}$$

$$1 \text{ man} = 80 \text{ days}$$

$$\text{Total work} = \text{LCM of } 12, 16, 4, 80 = 240$$

$$\text{Efficiency of man} = 240/80 = 3 \text{ units per day}$$

Application

$$12 \text{ men} + 16 \text{ women} = 240/4 = 60 \text{ unit per day}$$

$$(12 \times 3) + (16 \times x) = 60$$

$$16x = 24$$

$$x = 1.5$$

$$\text{Efficiency of 1 woman} = 1.5$$

$$1 \text{ woman alone} = 240/1.5 = 160 \text{ Days}$$

Question 62 :

4 years ago, the ratio of Vikash's to Rahul's age was 3 : 5 . After 6 years, this ratio would become 4 : 5. Find present age of rahul.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 10

2. 15

3. 14

4. 17

Solution :

The correct answer is option 3 i.e. 14 years

Understanding

$$(3x + 10)/(5x + 10) = 4/5$$

$$15x + 50 = 20x + 40$$

$$-5x = -10$$

$$x = 2$$

Application

4 year before Rahul age = $5x = 5 \times 2 = 10$ years

Present age of Rahul = $10 + 4 = 14$ years

Question 63 :

The angle of elevation of the top of a tower at a distance of 25 m from its foot is 60° . The approximate height of the tower is -

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

1. 20.3 m
2. 15.3 m
3. 36.3 m
4. 43.3 m

Solution :

The correct answer is option 4 i.e. 43.3 m

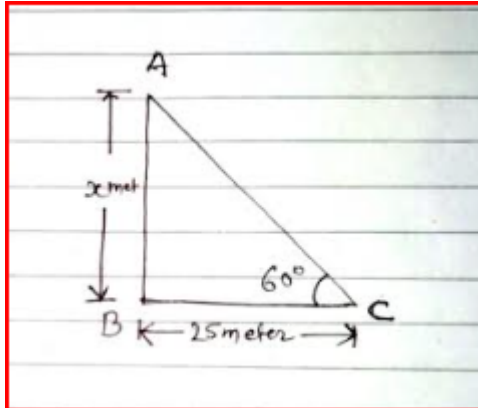
Understanding

Given,

AB = Height of the tower = x meters

BC = distance = 25 m

BCA = 60°



$$\tan 60^\circ = 3 = p/b$$

Application

Here, $b = 1$ and $p = 3$

$1 = 25$ meter (multiply by 25)

So, $AB = 3 = 3 \times 25 = 1.1732 \times 25 = 43.3$ m

Question 64 :

Find the approximate simple interest on Rs.2000 from March 9,2010 to May 21, 2010 at 8.25% per annum.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Rs. 43
2. Rs. 37
3. Rs. 33
4. Rs. 40

Solution :



The correct answer is option 3 i.e. Rs 33

Understanding

Given,

$$P = 2000$$

$$\text{ROI} = 8.25\% \text{ pa}$$

$$\text{Time} = 9 \text{ march to } 21 \text{ may} = 22 + 30 + 21 = 73 \text{ days} = \frac{73}{365} = \frac{1}{5} \text{ year}$$

Formula:

$$\text{Intrest Amount} = (P/100)rt$$

Application

$$\text{Intrest Amount} = (2000/100) \times 8.25 \times \frac{1}{5} = 20 \times 8.25 \times \frac{1}{5} = 4 \times 8.25 = \text{Rs } 33$$

Question 65 :

If $(x+1/x)=2$, then find the value of $(x^3+1/x^3) \div (x^{18}+1/x^{18})$

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. $2/9$

2. 5

3. 1

4. $1/9$

Solution :

The correct answer is option 3 i.e. 1

Understanding/Application

Given,

$$(x+1/x)=2 \dots (i)$$

Squaring both side

$$x^2 + 1/x^2 = 0 \dots(ii)$$

Multiply (i) by (ii)

$$(x+1/x)(x^2 + 1/x^2) = 2 \times 0$$

$$x^3 + (1/x + x) + 1/x^3 = 0$$

$$x^3 + (2) + 1/x^3 = 0$$

$$x^3 + 1/x^3 = -2 \dots(iii)$$

Squaring both side in equation (iii)

$$x^6 + 1/x^6 + 2 = 4$$

$$x^6 + 1/x^6 = 2 \dots(iv)$$

Cubing both side in equation (iv)

$$x^{18} + 1/x^{18} + 3(x^6 + 1/x^6) = 8$$

$$x^{18} + 1/x^{18} + 3(2) = 8$$

$$x^{18} + 1/x^{18} = 2$$

Now,

$$(x^3+1/x^3) \div (x^{18}+1/x^{18}) = 2/2 = 1$$

Question 66 :

Find the largest number of three digits exactly divisible by 15,18, 27 and 30.

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. 870

2. 900

3. 810



780

Solution :

The correct answer is option 3 i.e. 810

Understanding/Application

LCM of 15, 18, 27 and 30.

$$15 = 3 \times 5$$

$$18 = 2 \times 3^2$$

$$27 = 3^3$$

$$30 = 2 \times 3 \times 5$$

$$\text{LCM} = 2 \times 3^3 \times 5 = 270$$

Required largest 3 digits number

$$270 \times 2 = 540$$

$$270 \times 3 = 810$$

$$270 \times 4 = 1080$$

Highest 3 digits number is 810

Question 67 :Given that $x + (1/x) = 15$, then find the value of $5x \div (5x^2 - 11x + 5)$ **Difficulty : Moderate****Average Time : 49 Seconds****Options :**

1. $1/3$
2. $5/64$
3. $1/25$
4. $5/74$

Solution :The correct answer is option 2 i.e. $5/64$

Understanding/Application

Given,

$$x + (1/x) = 15$$

Now,

$$5x \div (5x^2 - 11x + 5)$$

$$= 5x \div 5x (x - 11/5 + 1/x)$$

$$= 1 \div 1 (15 - 11/5) \text{ where, } [x + (1/x) = 15]$$

$$= 1 \div (64/5)$$

$$= 5/64$$

Question 68 :

A superfast Duronto express running at 90 kmph overtakes a bike running at 36 kmph in 25 seconds. What is the length of the train in meters?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 375 m
2. 225 m
3. 275 m
4. 325 m

Solution :

The correct answer is option 1 i.e. 375 m

Understanding



Given,

Speed of train = 90 kmph = $90 \times \frac{5}{18} = 25$ m/sec

Speed of bike = 36 kmph = $36 \times \frac{5}{18} = 10$ m/sec

Time = 25 sec

Overtaking means traveling in same direction.

Speed will be subtracted i.e $(25 - 10)$ m/sec = 15 m/sec.

Length of train = x meters

Formula:

Speed = Distance/time

Application

Distance = $15 \times 25 = 375$ meters

Question 69 :

Pihu and Aayu are running on a circular track of diameter 28 m. The speed of Pihu and Aayu is 48 m/s and 40 m/s respectively. They start from the same point at the same time in the same direction. When will they meet again for the first time?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 8 seconds
2. 11 seconds
3. 13 seconds
4. 14 seconds

Solution :

The correct answer is option 2 i.e. 11 sec

Understanding

Given,

Diameter of circular path = 28 m

Radius = $28/2 = 14$ m

Perimeter of circle = Path distance = $2r = 2 \times 22/7 \times 14 = 88$ m

Speed of Pihu = 48 m/sec

Speed of Aayu = 40 m/sec

Application

One round complete by Pihu = $88/48$ sec

One round complete by Aayu = $88/40$ sec

For, next meeting time = LCM of $88/48, 88/40$

For LCM of fraction, take LCM of numerator and HCF of denominator

LCM of 88, 88 = 88

HCF of 48, 40 = 8

So, LCM of $88/48, 88/40 = 88/8 = 11$ sec

Hence, next meeting time of Pihu and Aayu is after 11 sec.

Question 70 :

Three numbers are given in which the second is triple the first and is also double the third. If the average of the three numbers is 66, find the second number.

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 36
2. 54
3. 108
4. 72

Solution :

The correct answer is **option 1** i.e. **36**



Understanding

1st number = $2x$ (let)

2nd number = $3(2x) = 6x$

3rd number = $6x/2 = 3x$

$2x + 6x + 3x = 66$

$11x = 66$

$x = 6$

So, 2nd number = $3(2x) = 6 \times 6 = 36$

Question 71 :

A wholesaler purchased 7 hair clips for a rupee. how many for a rupee must sell to get profit of 40%

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 6

2. 5

3. 4

4. 3

Solution :

The correct answer is option 2 i.e. 5

Understanding

We know that, Re 1 = 100 p

CP of 1 clip = $(100/7)$ paisa

For 25% profit on 1 clip = $[(100/7)/100] 140 = 140/7 = 20$ paise/piece

In 1 rupee = $100/20 = 5$ pieces

Question 72 :

Aparna changes the marked price of an item to 50% above its C.P. What % discount allowed in approximately to gain 10%?

**Difficulty : Moderate****Average Time : 42 Seconds****Options :**

1. 27%
2. 25%
3. 35%
4. 37%

Solution :

The correct answer is option 1 i.e. 27%

Understanding

CP = 100 (let)

MP = $100 + (100/100)50 = 150$ For 10% profit on CP = $100 + (100/100)10 = 110$ Difference = Discount amount = $150 - 110 = 40$

1Application

Discount % = $(40/150)100 = 26.66\%$

Aprox value = 27%

Question 73 :Arun and Amit can do a piece of work in 9 days and 12 days respectively. if they work for alternate days and Amit starts the work first, then in how many days $35/36$ parts of whole work will be completed.**Difficulty : Moderate****Average Time : 49 Seconds****Options :**

1. 10 days
2. 12 days
3. 5 days
4. 8 days

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**Solution :**

The correct answer is option 1 i.e. 10 days

Understanding

Arun = 9 days

Amit = 12 days

Total work = LCM of 9 and 12 = 36

Efficiency of Arun = $36/9 = 4$

Efficiency of Amit = $36/12 = 3$

Application

Start by Amit alternatively i.e

1st day = 3 units

2nd day = 4 units (done by Arun)

$(3 + 4) = 7$ units in two days

Required to complete = $36/7 = 5$ days by each

I.e $5 \times 2 = 10$ days

Question 74 :

The mean of 10 observations is 17. One more observation is included and the new mean becomes 16. The 11th observation is

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 16

2. 8

3. 6

4. 12

Solution :

The correct answer is option 3 i.e. 6



Understanding

Mean = 17

Total number of things = 10

Sum of observations = $10 \times 17 = 170$

New mean = 16 (after 1 thing add)

New number of things = $10 + 1 = 11$

Application

Value of 11th = $(11 \times 16) - (10 \times 17) = 176 - 170 = 6$

Question 75 :

If the angles of a triangle are in the ratio 1:4:7, then the ratio of the greatest angle to the smallest angle.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 7:2
2. 2:3
3. 7:1
4. 3:5

Solution :

The correct answer is option 3 i.e. 7:1

Understanding/Application



We know that,

Sum of all angle of a triangle = 180°

1st angle = $1x$ (smallest)

2nd angle = $4x$

3rd angle = $7x$ (greatest)

G:S = $7x:1x = 7:1$

Question 76 :

The height of a light house is 20 meters above sea level. The angle of depression (from the top of the lighthouse) of a ship in the sea is 30° . What is the distance from the ship from the foot of the light house?

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

1. 16 m
2. 203 m
3. 20 m
4. 30 m

Solution :

The correct answer is option 2 i.e. 203 m

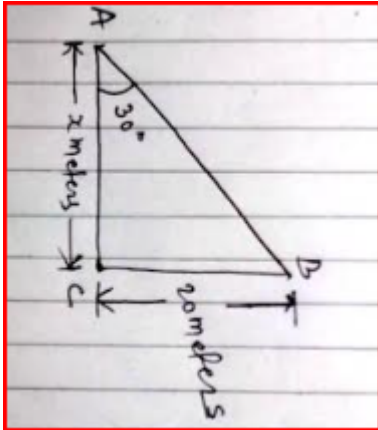
Understanding

Given,

BC = Height of the light house = $p = 20$ m

AC = distance = x meters

$\angle BAC = 30^\circ$



$$\tan 30^\circ = \frac{1}{3} = \frac{p}{b}$$

Application

Here, $p = 1$ and $b = 3$

$1 = 20$ meter (multiply by 20)

So, $AC = 3 = 3 \times 20 = 203$ m

Question 77 :

Ritesh sold a pen for Rs. 36 with a profit of 20%. If it were sold for Rs. 33, then what could be the percentage of profit or loss?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 10% Profit
2. 15% Profit
3. 12% Loss
4. 18% Loss

**Solution :**

The correct answer is option 1 i.e. 10% Profit

Understanding

Given,

$$120\% = \text{Rs } 36$$

$$\text{CP} = 100\% = (36/120)100 = 30$$

$$\text{Now, SP} = \text{Rs } 33$$

Application

$$\text{Profit\%} = [(SP - CP)/CP]100$$

$$= (3/30)100 = 10\% \text{ Profit (Because SP is greater than CP)}$$

Question 78 :

Which of the following ratio is greatest?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 7 : 15

2. 15:23

3. 17:25

4. 21:29

Solution :

The Correct Answer is **Option 4** i.e **21:29**.

The given ratios are: 7: 15, 15:23, 17:25 and 21:29.

$$7: 15 = 7/15 = 0.47$$

$$15:23 = 15/23 = 0.65$$

$$17:25 = 17/25 = 0.68$$

$$21:29 = 21/29 = 0.72$$

Hence, The greatest ratio among the given options is 21:29 = **0.72**

Comprehension :

Study the following information carefully and answer the questions given below it. (i) There are six members in a family in which there are two married couples. (ii) Sandhya, a lawyer, is married to the engineer and is mother of Charu and Suraj. (iii) Bhuvaneah, the teacher, is married Aruna. (iv) Aruna has one son and one grandson. (v) Of the two married ladies one is a housewife. (vi) There is also one student and one male doctor in the family.

Question 79 :

Who among the following is the housewife?

Difficulty : Moderate

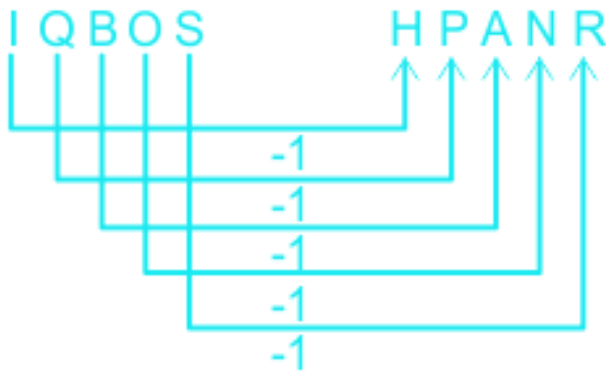
Average Time : 65 Seconds

Options :

1. Charu
2. Aruna
3. Sandhya
4. None

Solution :

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



From the above diagram, we can say that **Aruna** is the housewife.

Comprehension :

Study the following information carefully and answer the questions given below it. (i) There are six members in a family in which there are two married couples. (ii) Sandhya, a lawyer, is married to the engineer and is mother of Charu and Suraj. (iii) Bhuvaneah, the teacher, is married Aruna. (iv) Aruna has one son and one grandson. (v) Of the two married ladies one is a housewife. (vi) There is also one student and one male doctor in the family.

Question 80 :

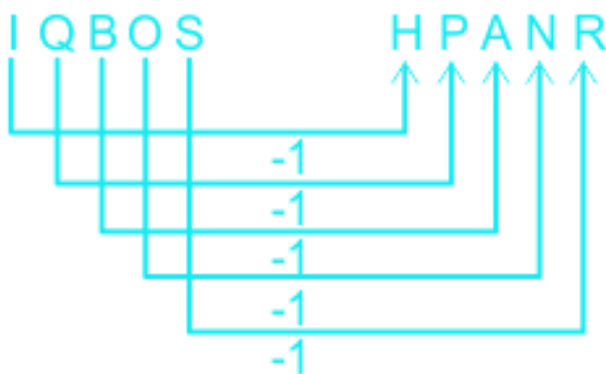
How is Aruna related to Charu?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Sister
2. Mother
3. Grandfather
4. Grandmother

Solution :The correct answer is option 4 i.e. **Grandmother**.From the above figure, we can say that Aruna is the **Grandmother** of Charu.**Question 81 :**If '>' means 'minus', '+' means 'plus', '*' means 'multiplied by' and '#' means 'divided by', then what would be the value of $27 \div 9 > 6 =$

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 32
2. 30
3. 36
4. 25

Solution :

The correct answer is option 2 i.e. 30.

>	-
	+
*	x
#	÷

The given equation is: $27 \ 81 \ # \ 9 > 6$,

After changing the Sign, we get

$$\begin{aligned} 27 \ 81 \ # \ 9 > 6 &= 27 + 81 \div 9 - 6 \\ &= 27 + 9 - 6 \\ &= 27 + 3 \\ &= 30 \end{aligned}$$

Question 82 :

Below are given statements followed by two conclusions I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Statements: Some buds are flowers All flowers are trees. All trees are leaves. Conclusions: I. Some leaves are buds. II. All flowers are leaves. Decide which of the below options logically follows the given conclusions.

Difficulty : Moderate

Average Time : 77 Seconds

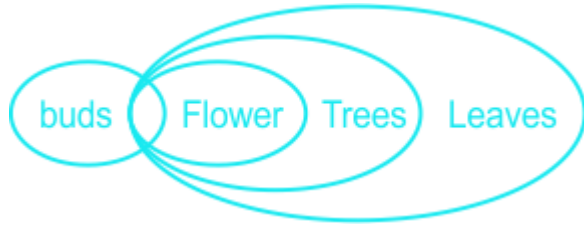
Options :

1. Only Conclusion I follows.
2. Only Conclusion II follows.
3. Both I and II follows
4. Neither I nor II follows

Solution :



The correct answer is option 3 i.e. **Both I and II follows.**



From the above diagram.

Conclusions:

I. Some leaves are buds = True

II. All flowers are leaves = True.

Hence, **Both I and II follow.**

Question 83 :

Find the missing value denoted by '?' $3 : 243 :: 5 : ?$

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 625
2. 465
3. 3125
4. 425

Solution :

The correct answer is option 3 i.e. **3125.**

- $3 : 243 :: 5 : x$
- $3^1 : 3^5 = 3 : 243$

In the same way,

- $5 : x = 5^1 : 5^5 = 5 : 3125$

Question 84 :

In a certain code, TABLE is written as GZYO V, then CHAIR can be written as

Difficulty : Moderate

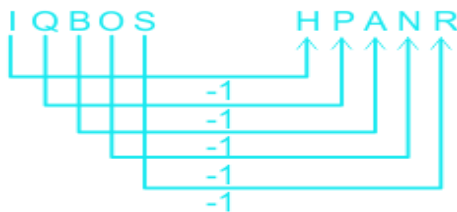
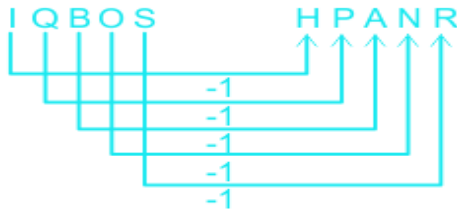
Average Time : 40 Seconds

Options :

1. XRZSI
2. XZSRI
3. XSRZI
4. XSZRI

Solution :

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



From the above diagram, we can say that **CHAIR** is coded as **XSZRI**.

Question 85 :

If A denotes '+', B denotes '-', C denotes '÷', D denotes 'x' then the value of the expression 9 D 48 C 6 B 16 A 3 is

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 53
2. 35
3. 59
4. 56

Solution :

The correct answer is option 3 i.e. **59**.

A	+
B	-
C	÷
D	x

$$9 \text{ D } 48 \text{ C } 6 \text{ B } 16 \text{ A } 3 = 9 \times 48 \div 6 - 16 + 3$$

$$= 9 \times 8 - 16 + 3$$

$$= 72 - 16 + 3$$

$$= 56 + 3$$

$$= 59.$$

**Question 86 :**

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

Difficulty : Moderate**Average Time : 78 Seconds****Options :**

1. Brutal : Heroic
2. Wild : Animal
3. Dark : Light
4. Illiterate : Book

Solution :

The correct answer is option 3 i.e. **Dark: Light**.

Savage is the opposite word of **Civilized**.



In the same ways, **Dark** is the opposite of **Light**.

Question 87 :

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

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. EARSUQ
2. ONGPOYL
3. NAEGRCELT
4. RGETESNH

Solution :

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

EARSUQ = SQUARE

ONGPOYL = POLYGON

NAEGRCELT = RECTANGLE

RGETESNH = -----

Hence, No word can be formed by **RGETESNH**. So it is the odd one.

Question 88 :

An Assertion (A) and Reason (R) are given below. Assertion (A): Leakages in household gas cylinders can be detected.

Reason (R): LPG has a strong smell. Choose the correct option.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Both A and R are true and R is the correct explanation of A.
2. Both A and R are true and R is not the correct explanation of A.
3. Both A and R are false.
4. A is true but R is false.

Solution :

The correct answer is option 4 i.e. **A is true but R is false**.

Leakages in household gas cylinders can be detected because of the strong smell of ethyl mercaptan mixed with LPG. Hence, **A is true**.

- **LPG is** odorless in its natural state.
- The **smell** that you notice when there **is** a leak is actually the stench of an entirely different agent, called ethyl mercaptan (C₂H₆S).
- This substance is added to the gas when it leaves the main storage terminals. Hence, **R is false**.

Question 89 :

Identify the odd one from the list below.

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Stream
2. Bridge
3. Canal
4. River

Solution :

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

- Stream, Canal and, River are all the same in one way or the other whereas the **Bridge** is different from all others.

Question 90 :

An Assertion (A) and a Reason (R) are given below. Assertion (A): Beri - Beri a viral infection. Reason (R): Vitamin deficiency causes diseases. Choose the correct option.

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. A is false but R is true.
2. A is true but R is false.
3. Both A and R are false.
4. Both A and R are true and R is the correct explanation of A.

Solution :



The correct answer is option 1 i.e. **A is false but R is true.**

- Beri - Beri is not a viral infection. **Beriberi** is a disease caused by a vitamin B-1 deficiency. Hence, **A is false.**
- Due to the deficiency of vitamin B-1, Beriberi is caused. Hence, **R is true.**
- **Cobalamin** is another name for vitamin B-12.

Question 91 :

Find the correct option which has a similar relationship. Produce : Waste :: Contrast : ?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Correct
2. Match
3. Contradict
4. Oppose

Solution :

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

- **Produce** means develop but **Waste** means devastation. Waste is the antonyms of Produce. In the same way, **Contrast's antonyms is Match.**

Question 92 :

If '+' means 'multiplication', '-' means 'division', 'x' means 'subtraction' and '÷' means 'addition', then $9 + 8 \div 8 - 4 \times 9$ is

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 65
2. 11
3. 26
4. 56

Solution :

The correct answer is option 1 i.e. **65.**

+	x
-	÷
x	-
÷	+

- After changing sign, we have $9 + 8 \div 8 - 4 \times 9 = 9 \times 8 + 8 \div 4 - 9$
 $= 9 \times 8 + 2 - 9$
 $= 72 + 2 - 9$
 $= 74 - 9$
 $= 65.$

Question 93 :

In a certain code language, PROMOTION is written 365458957, how will the word MONITOR be written in that code language?

Difficulty : Moderate**Average Time : 111 Seconds****Options :**

1. 4579856
2. 4578956
3. 4597866
4. 4578596

Solution :

The correct answer is option 1 i.e. **4579856**.

P	3
R	6
O	5
M	4
O	5

T	8
I	9
O	5
N	7

M	4
O	5
N	7
I	9
T	8
O	5
R	6



Question 94 :

If @ means +, # means - , \$ means x and * means \div , then what is the value of $16 @ 4 \$ 5 \# 72 * 8 =$

Difficulty : Moderate

Average Time : 100 Seconds

Options :

1. 27
2. 26
3. 36
4. 35

Solution :

The correct answer is option 1 i.e. 27.

@	+
---	---

#	-
\$	x
*	÷

- After changing sign, we have $16 @ 4 \$ 5 \# 72 * 8 = 16 + 4 \times 5 - 72 \div 8$
 $= 16 + 4 \times 5 - 9$
 $= 16 + 20 - 9$
 $= 36 - 9$
 $= 27.$

Question 95 :

Select the pair in which the number are similarly related as in the given pair: $9 : 27 :: \underline{\hspace{1cm}} : \underline{\hspace{1cm}}$

Difficulty : Moderate**Average Time : 100 Seconds****Options :**

1. $5 : 125$
2. $8 : 64$
3. $15 : 135$
4. $81 : 729$

Solution :

The correct answer is option 4 i.e. $81 : 729$.

- $9 : 27 = 3^2 : 3^3 = 9 : 27$
- In the same way, $81 : 729 = 9^2 : 9^3 = 81 : 729$.

Question 96 :

An assertion (A) and Reason (R) are given below. Assertion (A): We prefer to wear white clothes in winter. Reason (R): White clothes are good reflectors of heat. Choose the correct option.

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

1. A is true but R is false.

A is false but R is true.

- Both A and R are true and R is the correct explanation of A.
- Both A and R are true and R is not the correct explanation of A.

Solution :

The correct answer is option 2 i.e. **A is false but R is true.**

- The dark color clothes having the potential to absorb more heat than light color clothes. So We prefer dark or black color clothes to wear in winter not white clothes.
- We wear white or light color clothes in summer because white or light color clothes having the potential to absorbing less heat and thus keeps us cool during summer. Hence, **A is false.**
- White clothes are good reflectors of heat. Hence, **R is true.**

Question 97 :

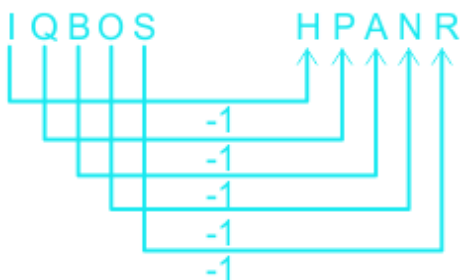
If EFMIJ means DELHI, then the last letter of the word got by decoding IQBOS is

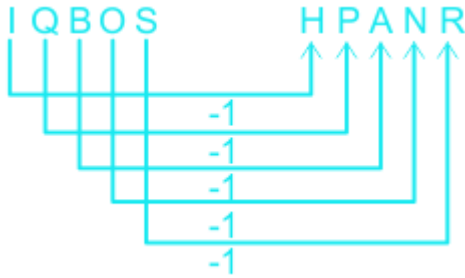
Difficulty : Moderate**Average Time : 71 Seconds****Options :**

- R
- T
- K
- M

Solution :

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





- From the above diagram, we can say that the last letter of the word got by decoding IQBOS is **R**.

Question 98 :

If E = 5, GUN = 42 and ROSE = 57, then what is the value of GATE?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 23
2. 32
3. 33
4. 35

Solution :

The correct answer is option **3** i.e. **33**.

- **By alphabetical number**
- $GUN = 7(G) + 21(U) + 14(N) = 42$
- $ROSE = 18(R) + 15(o) + 19(S) + 5(E) = 57$
- $GATE = 7(G) + 1(A) + 20(T) + 5(E) = 33$.

Question 99 :

Identify the odd one from the list below.

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. Snake



Lizard

3. Reptiles

4. Crocodile

Solution :

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

- **Reptile** is the odd one from the list.
- **Reptiles** are tetrapod animals in the class.
- Snake, Lizard, and Crocodile are Reptile animals.
- The study of these traditional reptile orders with that of modern amphibians is called **herpetology**.
- All reptiles have a backbone, which means they are vertebrates.
- All reptiles produce eggs. Most reptiles lay hard-shelled eggs, but a few give birth to live young.

Question 100 :

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

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. SAMR
2. MOETC
3. USVNE
4. PUJIERT

Solution :

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

- SAMR = MARS
- MOETC = COMET
- USVNE = VENUS
- PUJIERT = JUPITER

Mars, Venus, Jupiter are the planet. So, MOETC = COMET is the odd one out.

Rrb Ntpc CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Ntpc CBT - 1 Previous Year Question Paper held on 2016-04-12 in the Morning exam is as follows:

1. 99 questions were moderate.
2. The safe score is 68 marks.
3. 99 questions were asked from CBT -1 and 99 questions were asked from CBT -1
4. 1 questions should have been skipped if you were short of time.

Rrb Ntpc CBT - 1 Previous Year Question Paper Topic 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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