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CBT I (Mathematics, Mental Ability, General Science & General Awareness)

- Ans.1(D)** Coal India Limited
- Ans.2(C)** Tirana is the Capital of Albania.
- Ans.3(A)** Rajesh Nirwan
- Ans.4(B)** Rajaji Tiger Reserve is located in Uttarakhand
- Ans.5(C)** Uttar Pradesh is called the Sugar bowl of India. It is the largest producer of sugarcane in India.
- Ans.6(D)** The forests of the Andaman and Nicobar Islands, which are part of the Tropical Rainforests, are of seven types: Giant Evergreen forests, Andaman Tropical Evergreen forests, Southern Hilltop Tropical Evergreen forests, Andaman Tropical Evergreen forests, Andaman Semi- Evergreen forests, Andaman Moist Deciduous forests, Littoral Forests and Mangrove Forest.
- Ans.7(D)** Avanti was not directly related to life of Buddha, so this needs to be opted out. We have read that (Prasenajit), king of Kosala, was the Buddha's contemporary and is frequently mentioned in Pali texts. Kosala and Magadha were linked through matrimonial ties. Buddhawandered through the towns and villages in the kingdoms of Kosala and Magadha teaching his philosophy. Gandhara is not directly associated with the life of Buddha. It was expansion of Maurya empire that Gandhara received much Buddhist influence, notably during the reign of Asoka.
- Ans.8(B)** World Radcross Day is celebrated on 8 May.
- Ans.9(B)** First statement is incorrect. The first woman President of the Indian National Congress was Annie Besant.
- Ans.10(D)** H1N1 flu is also known as swine flu. It's called swine flu because in the past, the people who caught it had direct contact with pigs.
- Ans.11(B)** Malvikagnimitra is a five-act drama based on Sunga king Agnimitra's love for Vidharbha princess Malvika. It was a Sanskrit play written by Kalidas.
- Ans.12(B)** Chief Secretary in the state is appointed by the Chief Minister of the state. there is no fixed tenure for Chief Secretary. Recently, the Supreme Court directed the Centre and the States to set up a Civil Services Board (CSB) for the management of transfers, postings, inquiries, process of promotion, reward, punishment and disciplinary matters and to assure fixed tenure for Civil Servants.
- Ans.13(D)** The major tributaries of Brahmaputra include: Dibang, Lohit, Dhansiri, Kolong, Kameng, Manas, Raidak, Jaldhaka, Teesta, Subansiri etc.
- Ans.14(A)** Mission Indradhanush will provide protection against seven life threatening diseases (diphtheria, whooping cough, tetanus, polio, tuberculosis, measles and hepatitis B). In addition, vaccination against Japanese Encephalitis and Haemophilus influenzae type B will be provided in selected districts of the country. Vaccination against tetanus toxoid will be provided to the pregnant women.
- Ans.15(B)** These edicts were decoded by British archaeologist and historian James Prinsep.
- Ans.16(B)** First statement is not correct as Gram Nyayalaya try criminal cases, civil suits, claims or disputes which are specified in the First Schedule and the Second Schedule to the Act. The second statement is correct and the act allows local social activists and lawyers as mediators/reconciliators.
- Ans.17(B)** In First option it should be 21 years. Second statement is correct.
- Ans.18(A)** GCC is a political and economic alliance of six Middle Eastern countries—Saudi Arabia, Kuwait, the United Arab Emirates, Qatar, Bahrain, and Oman.
- Ans.19(C)** The currency of U.A.E. is dirham.
Yen - Japan
Rupiah - Indonesia
Yuan - China
- Ans.20(B)** The Nobel Prize in Physics was awarded to Albert Einstein "for his services to Theoretical Physics, and especially for his discovery of the law of the photoelectric effect".
- Ans.21(C)** Credit Card - A credit card is a payment card issued to users as a system of payment.
- Ans.22(D)** Monazite is an ore of Thorium.
- Ans.23(A)** 'Gold' is mainly related to International market.
- Ans.24(C)** The members of the banking ombudsman are appointed by Reserve Bank of India.
- Ans.25(A)** April 17 - World Hemophilia Day
April 18 - World Heritage Day
April 21 - Secretaries Day
April 22 - Earth Day
- Ans.26(A)** Graphite is used in pencils.
- Ans.27(B)** Adrenaline hormones are called 'Emergency Hormone'.
- Ans.28(A)** Study of human body movements is called Kinesiology.
- Ans.29(C)** The three bones are named the incus, stapes and the malleus present in ear.
- Ans.30(D)** Rs. 100 crore
- Ans.31(D)** A moratorium period is the time during a loan term when the borrower is not required to make any repayment. It is a waiting period before which repayment of EMIs resumes. Moratoriums are often enacted in response to temporary financial hardships.
- Ans.32(B)** The International Booker Prize (formerly known as the Man Booker International Prize) is an international literary award hosted in the United Kingdom. The introduction of the International Prize to complement the Man Booker Prize was announced in June 2004. Sponsored by the Man Group, from 2005 until 2015 the award was given every two years to a living author of any nationality for a body of work published in English or generally available in English translation.
- Ans.33(C)** Kolkata, is the capital of the Indian state of West Bengal, located on the eastern bank of the Hooghly River, approximately 80 kilometres (50 mi) west of the border with Bangladesh. According to the 2011 Indian census, Kolkata is the seventh-most populous city in India.
- Ans.34(A)** Apollo 11 was the spaceflight that first landed humans on the Moon. Commander Neil Armstrong and lunar module pilot Buzz Aldrin formed the American crew that landed the Apollo Lunar Module Eagle on July 20, 1969. Armstrong became the first person to step onto the lunar surface.
- Ans.35(D)** Parashurama is the sixth avatar of Vishnu in Hinduism and he is one of the chiranjeevis who will appear at the end of the Kali yuga to be the guru of Vishnu's tenth and last avatar Kalki. Parashurama is also the Guru of Bhishma, Dronacharya, and Karna.
- Ans.36(C)** Madras Day is a festival organized to commemorate the founding of the city of Madras (now Chennai) in

Tamil Nadu, India. It is celebrated on 22 August every year, 22 August 1639.

The idea of a Madras Day was first suggested by Chennai-based journalist Vincent D'Souza to historian S. Muthiah.

Ans.37(C) New Zealand is an island country in the southwestern Pacific Ocean. It comprises two main land-masses—the North Island and the South Island and around 600 smaller islands.

A volcanic eruption took place at White Island in New Zealand.

White Island is New Zealand's most active cone volcano which has been built up by continuous volcanic activity over the past 1,50,000 years.

About 70% of the volcano lies under the sea and the Island forms the tip of the volcano.

Ans.38(A) A statue of Alexander the Great has been installed in central Athens, Greece. Three decades after it was finished by Yannis Pappas, one of the greatest Greek sculptors of the 20th century.

In the bronze statue, Alexander bears no arms and is depicted at a very young age.

In the past, statues of the Alexander have been erected in other parts of Greece, but not in Athens.

The long delay is mainly due to bureaucratic reasons and Greek authorities delayed installing so as not to raise tensions during efforts to resolve a row with neighboring Macedonia over its name.

Ans.39(D) All are correct

Ans.40(D) Clinical test for jaundice.

Ans.41(D) $FDI\ 2007\ to\ 2011 = 10.15 + 12.16 + 10.22 + 24.23 + 31.36 = 88.12$

Ans.42(A) Investment between 2009 to 2011 = $31.36 - 10.22 = 21.14$

Ans.43(B)

Ans.44(B) First man – In one day 10 sq meter $\times 8 = 80$ sq meter

.He completed 160 sq meter in 2 days

Second man – In one day $12 \times 5 = 60$ sq. meter

.He can only 120 sq meter in 2 days

Third man – In one day $20 \times 4 = 80$ sq. meter

He can complete 160 sq meter in 2 days

Fourth man – In one day $15 \times 4 = 60$ sq. meter

He can complete 120 sq meter in 2 days

Fourth man - $15 \times 6 = 90$ sq meter

He can complete 180 sq meter. Area of Ganesh's house

is 175 sq meter so fourth man will complete in 2 day.

Ans.45(A) mode = mean - 3 (mean - median)

$5 = \text{mean} - 3(4)$

$5 = \text{mean} - 12$

mean = $12 + 5 = 17$

Ans.46(D) $(x + y)^2 = x^2 + y^2 + 2xy$

$576 = 290 + 2xy$

$2xy = 286$

$xy = 143$

Ans.47(A) $2489 + 248.9 + 24.89 + 2.489 = 2765.279$

Ans.48(C) $1699 \times 1701 = 2889999$

Ans.49(A) $68 = 17 \times 4$

$153 = 17 \times 9$

.So, HCF is 17

size of tiles $17 \times 17 = 289$

Required tiles $(68 \times 153) / 289 = 36$

Ans.50(A)

Ans.51(D) Total Weight of group $4 \times 56 = 224$ kg

Total weight after Vinod join group = $224 + x$

According to question weight of group = $57 \times 5 = 285$

.weight of Vinod is $285 - 224 = 61$

Ans.52(A) $45 + 5 = 50$

$50 \times 2.5 = 125$

Ans.53(C) Let, CP = 100

Then, MP = 120

price of error weight $120 \times 500/300 = 200$

50% discount on it.

then, SP = $200/2 = 100$

Ans.54(A)

Ans.55(C) $0.25 / 100 \times 2.5 / 100 \times 25/100 \times 64000$

$1/400 \times 1/40 \times 1/4 \times 64000 = 1$

Ans.56(C) $(496 \times 100) / 100 = 82.666\%$

Ans.57(D)

Ans.58(A) Rectangle can divide into 8 equal triangle. This ratio is $3/5$.

Ans.59(A) A - $1/5$ day

B - $1/7$ day

$A + B = 1/7 + 1/5$

total work = 35 unit

sum of efficiency = 12

then, work will be complete in $35/12 = 2(11/12)$.day

Ans.60(A) Calculate 1 hour of leakage = $1/10 - (1/6 + 1/5)$

= $-8/30$ (Due to negative leakage)

Thus the leak will be carried into the empty tank by $30/8$ pm but

Its velocity = 80 liters / hour

Therefore capacity = $80 \times 30/8 = 300$ liters

Ans.61(A) It takes 30 seconds to cross its length. To a platform

To cross twice its length, then three times its length

Have to travel frequently. As distance and time are proportional if the speed is constant then its time

should increase by three times i.e.

$3 \times 30 = 90$ seconds.

Ans.62(B)

Ans.63(C)

Ans.64(A) $A = 2 \times B = 3 \times C = K$, now

$A:B:C = 6:3:2$

$A+B+C = 11$

$A = 6/11 \times 55000 = 30,000$

Ans.65(A) $A+B+C = 29$

$1740/29 = 60$

Ans.66(A) $\text{Cosec } A = 50/9$

Ans.67(C)

Ans.68(A) $\sin 60 = (\sqrt{3})/(2)$

$(a + b) / 2 = 60$

$A + B = 120$

$C = 60$

$C / 2 = 30$

So, $\sin 30 = 1/2$

Ans.69(B) Diagonal = $\sqrt{208} : 4/13$

The length is always positive.

Ans.70(A) Volume of prism = area of base $\times H$ (height)

= $6 \times 6 \times 30 = 1080$

Ans.71(B) *%?

Ans.72(D) Cannot be determined

Ans.73(D) $(3+8)^2 + (4+2)^2 = (11)^2 + (6)^2 = 121 + 36 = 157$

$(6+3)^2 + (9+1)^2 = (9)^2 + (10)^2 = 81 + 100 = 181$

$(8+5)^2 + (4+9)^2 = (13)^2 + (13)^2 = 169 + 169 = 338$

Ans.74(B) 7th April

Ans.75(B) Except option B, all are African Island while Ellis Island is an American Island.

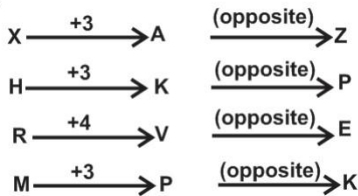
Ans.76(C) $245 \rightarrow (2 \times 4) \div 5 \rightarrow 1.6$

$483 \rightarrow (4 \times 8) \div 3 \rightarrow 10.66$

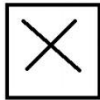
$648 \rightarrow (6 \times 4) \div 8 \rightarrow 3$

$729 \rightarrow (7 \times 2) \div 9 \rightarrow 1.55$

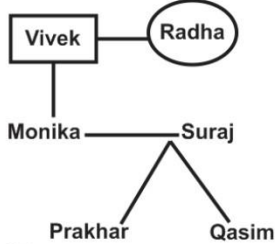
Ans.77(C)



Ans.78(D)



Ans.79(C) Cannot be determined



Ans.80(B) 27

Ans.81(A) $225 \times 6 + 132 - 4 \div 13 = ?$
According to the question-
 $\Rightarrow 225 - 6 \times 132 + 4 \div 13 = ?$
 $= 225 - 6 \times 33 + 13$
 $= 225 - 198 + 13$
 $= 40$

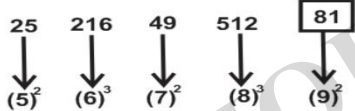
Ans.82(D)

Ans.83(A)

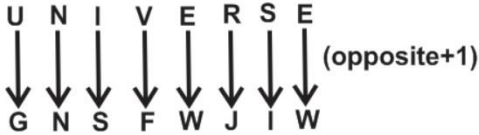
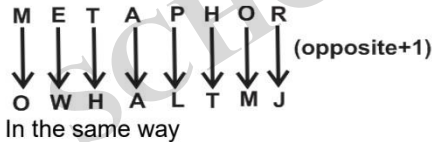


Ans.84(B)

Ans.85(A)



Ans.86(D)



Ans.87(D) 7,5,3,4,6,8,1,2

Ans.88(C) 43512

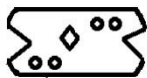
Ans.89(A) Yasmin

Ans.90(C) $723 \rightarrow (7+2+3) \div 2 \rightarrow (6)^2 \rightarrow 36$
 $457 \rightarrow (4+5+7) \div 2 \rightarrow (8)^2 \rightarrow 64$
 $761 \rightarrow (7+6+1) \div 2 \rightarrow (7)^2 \rightarrow 49$
 $668 \rightarrow (6+6+8) \div 2 \rightarrow (10)^2 \rightarrow 100$

Ans.91(C)



Ans.92(C)

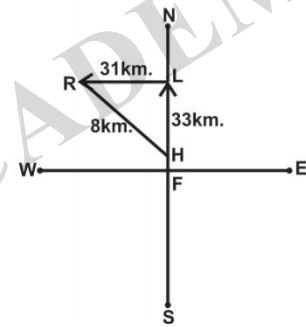


Ans.(93-94) R>P>Q>S या T>S या T

Ans.93(D) Data Inadequate

Ans.94(B) Q

Ans.(95-97)



Ans.95(B) South

Ans.96(D) North-west

Ans.97(C) $(RF)^2 = (33)^2 + (31)^2$
 $= 1089 + 961$
 $= 2050$
RF = 45 km. (approx..)

Ans.98(C) All are electronic products.

Ans.99(C)

Ans.100(C) Friday