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

Ans.1(A) The Kol rebelled in 1831-32 Santhal Rose in 1855. The bastar rebellion in central India broke out in 1910, and the Vardi revolt in Maharashtra in 1940.

Ans.2(C) The 7th pay commission has retained the rate of annual increment of 4%.

Ans.3(B) Rafiq Zakaria - The man who divided India

Ans.4(D) Analgesic

Ans.5(C) Both 1 and 2

Ans.6(D) 1, 2 and 3

Ans.7(D) To be certified (or) to be informed

Ans.8(C) Joroster

Ans.9(A) Pandit Jawaharlal Nehru wrote "Glimpses of World History" and 'Discovery of India'.

Cyclonite is another name of RDX.

Ans.10(B) Jatropa

Ans.11(A) Nickel

Ans.12(B) Jordan

Ans.13(B) Black Sea and Mediterranean Sea

Ans.14(B) South Asia

Ans.15(B) Both 1 and 2

Ans.16(C) Aurangzeb issued a farman granting the company the right to trade duty-free,

Ans.17(D) Lord Macaulay

Ans.18(A) Transparency International

Ans.19(D)

Ans.20(B) 2 4 1 3

Ans.21(C) Lok Sabha makes laws on matters included in Union List and Concurrent List.

Ans.22(A) Sri Lanka - Padmanabhaswamy Temple

Ans.23(D) Osaka

Ans.24(A) Philippines

Ans.25(A) National Development Council was formed on 6 August 1952 on the recommendation of Niyogi committee.

Ans.26(A) Reserve Bank of India

Ans.27(B) Both 1 and 2

Ans.28(C)

Ans.29(B)

Ans.30(C)

Ans.31(B)

Ans.32(C)

Ans.33(D)

Ans.34(C)

Ans.35(A)

Ans.36(A)

Ans.37(D)

Ans.38(D)

Ans.39(A)

Ans.40(C)

Ans.41(A)

Ans.42(A) mode = 3 median - 2 mean

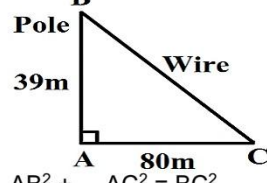
median = 6

mean = 7

mode = 3 (6) - 2 (7)

mode = 18 - 14 = 4

Ans.43(C)



$$AB^2 + AC^2 = BC^2$$

$$BC^2 = 39^2 + 80^2 = 1521 + 6400 = 7921$$

Ans.44(C) $BC = \sqrt{7921} = 89$ meter
If outer dimension is given and thickness also given, so related

Interior dimension, different from outer dimension of double of thickness. So,

Interior length is, $37.5 - 2 \times 1.25 = 35$

Breadth is $22.5 - 2 \times 1.25 = 20$ and height is 15

Volume = Length $\times$ Breadth $\times$ Height

Volume = $35 \times 20 \times 15 = 10500$

Because it's half fill = $10500/2 = 5250$

Ans.45(D) Profit = Invest $\times$ time

Time = Profit $\div$ Invest

Time = $3/1 : 2/2 : 1/3 = 3 : 1 : 1/3$

Time period of B is 1 years so time period of C will be 4

Month or $1/3$ years.

Ans.46(A) Means of double amount that Principal is equal to Interest in

2.5 years.

$$\text{Rate} = \frac{p \times 100}{p \times 2.5} = 40\%$$

Amount becomes 5 times of itself

So, Principal = p Amount = 5p

Interest = Amount - Principal = 5p - p = 4p

$$\text{Time} = \frac{\text{Interest} \times 100}{\text{Rate} \times \text{Principal}} = \frac{4p \times 100}{p \times 40} = 10 \text{ Years}$$

Ans.47(A)

S1 = 5 kmph S2 = 4 kmph

T1 = 6 hours T2 = 12 hours

D1 = time $\times$ speed = $5 \times 6 = 30$ km

D2 = $12 \times 4 = 48$ km

Total distance = $30 + 48 = 78$ km

Average speed = total distance / total time
= $78 / 18 = 4.3$

Ans.48(A)

Distance = 200 meter

Speed = 54 kmph

Speed = 54 kmph = $54 \times (5/18) = 15$ m/s

Related speed = $15 - 5 = 10$ m/s

time = $200/10 = 20$ sec

Ans.49(A)

Let, both are work together will take time x hours.

A taken time x+8 hours

B taken time x+18 hours

$A+B = \sqrt{A \times B}$

= $\sqrt{(18 \times 8)} = 12$ hours

Ans.50(A)

A - 8 days

B - $8 \times 3/4 = 6$ days

Let, total work is 24 units. Then efficiency of A and B will be 3 And 4

So, total efficiency will be = 7

Days = Total work / efficiency = $24/7$

Ans.51(C)

Let, Man buy first type candies 48 and second type 48.

Total cost price of both candies = $48/6 + 48/4 = ₹ 20$

If Sp is 8.

= $96/8 = 12$

Loss = $20 - 12 = ₹ 8$

Original loss is 24 so, $8 = ₹ 24$

$1 = 3$

$96 \times 3 = ₹ 288$

Ans.52(C)

$$4M + 3P = 113 \text{ ----- (1)}$$

$$7M + 4P = 184 \text{ ----- (2)}$$

Cost price of markers = ₹ 20

Cost price of pencils = ₹ 11

2 markers = $2 \times 20 = 40$ and 1 pencils = $11 \times 1 = 11$

Ans.53(A) $= 40 + 11 = 51$
Pinku: Rinku (10 years ago) --- 6: 7
After 6 year, ratio----- 10: 11
Let, age of Pinku and rinku after 6 year will be $10x$ and $11x$, then
 $10x - 16 / (11x - 16) = 16/7$
 $x = 4$
Rinku will be 44 year after 6 year and after 9 year he will be 47 year.

Ans.54(A) Let, Income of A and B is $15x$ and $28x$.
Then, Income - saving = Expenditure
So, saving of A and B is 20000 and 40000.
 $15x - 20000 / 28x - 40000 = 5/4$
 $x = 15000$
A = 75000

Ans.55(A) Population in 2019 = 25270
Population in 2017 = $x (5.56/100) \times (5.56/100)$
 $= 25270$
 $x = 25270 \times (18/19 \times 18/19) = 22680$

Ans.56(C) $20\% = 1/5$
 $16.67\% = 1/6$

	Consume	Price	pice (Consume $\times$ price)
Before	5	6	30
After	6	5	30

Ans.57(B) $13 + 26 + \dots + 143$
 $13(1 + 2 + 3 \dots + 11)$
 $13 \times 11 \times 12/2 = 858$
Average $858/11 = 78$

Ans.58(A) the sum of age of friends = $9.5 \times 6 = 57$ ----(1)
Age of 2 people who leave the group
 $= 9 \times 2 = 18$ ---- (2)
Sum of remaining age = $57 - 18 = 39$
Average of remaining = $39/4 = 9.75$

Ans.59(A) $79 + 10 = 89$
 $\Rightarrow 89/0.8 = 111.25$

Ans.60(A) $\left(\frac{44}{17} + \frac{42}{102}\right) \frac{22}{63} = \left(\frac{264}{102} + \frac{42}{102}\right) \frac{22}{63} = \frac{306}{102} \times \frac{22}{63} = \frac{22}{21}$

Ans.61(A) $\frac{23}{48} = \frac{1}{\frac{48}{23}} = \frac{1}{2 + \frac{2}{23}} = \frac{1}{w + \frac{1}{x+0.5}}$
Hence $w=2$
So $23/2 = 11.5$
 $X=11$
 $x+w=11+2=13$

Ans.62(C) $11829 \div 438 \div 9 = 3$

Ans.63(C)

Ans.64(D)

Ans.65(A) $x = 4 + 5 + 2 \times 2 \times \sqrt{5}$
 $x = (2 + \sqrt{5})^2$
 $\sqrt{x} = 2 + \sqrt{5}$
 $1/\sqrt{x} = -2 + \sqrt{5}$
 $\sqrt{x} + 1/\sqrt{x} = 2 + \sqrt{5} - 2 + \sqrt{5} = 2\sqrt{5}$

Ans.66(A) electricity = 20%
 $20/100 \times 360 = 72$

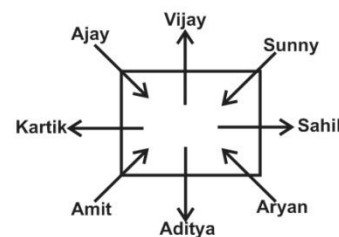
Ans.67(A) cloths = 15%
Other = 18%
cloths: other = 5: 6

Ans.68(A) saving = 12%
Cloths = 15%
more /less % = $3 \times 100/15 = 20\%$

Ans.69(C)

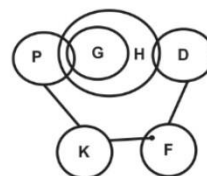
Ans.70(D)

Ans.(71-73)



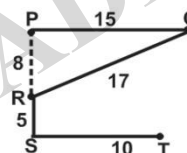
Ans.71(D)
Ans.(74-75)

Ans.72(C) **Ans.73(C)**

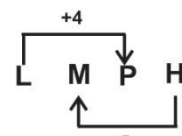


Ans.74(A) **Ans.75(C)**
Ans.76(B) $36 \times 23 = 828$
 $42 \times 23 = 966$
Ans.77(B) Former is Country latter is Capital.
Ans.78(B) P - 16 R - 18
G - 7 J - 10
Y - 25 U - 21
H - $\frac{8}{56}$ Q - $\frac{17}{66}$

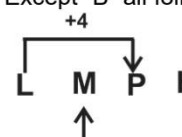
Ans.(79-80)



Ans.79(C) **Ans.80(D)** **Ans.81(C)**
Ans.(82-83)



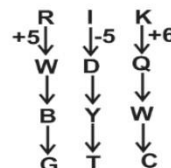
Ans.82(B) Except "D" all are prime numbers.
Ans.83(D) Except "B" all follow given pattern.
Ans.84(B)



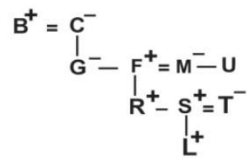
Ans.85(C) All except "C" used to measure distance.
Ans.86(A)
Ans.87(B)
Ans.88(A)

In first column
 $(69 - 32) + 47 = 84$
Similarly, in third column
 $(76 - 34) + 29 = 71$
"1" is shifting one place ahead.

Ans.89(C)
Ans.90(C)



Ans.(91-93)



Ans.91(D)
Ans.92(B)
Ans.93(B)
Ans.94(B)

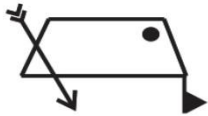
$$\begin{aligned} \theta &= \left| \frac{11M - 60H}{2} \right| \\ &= \left| \frac{11 \times 20 - 60 \times 2}{2} \right| \\ &= 100^\circ \end{aligned}$$

Ans.95(B)

Ans.96(B) $294 - 21 + 25 \times 130 \div 253$
After sign change
 $294 \div 21 \times 25 + 130 - 253 = 227$

Ans.97(B)

Ans.98(C)



Ans.99(A) One line is added.
Ans.100(B)

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