Railway Group D

Solution

RGD-87375868-E

- BALAJI COLONY TIRUPATI CELL 9391794863
- DILSUKHNAGAR HYDERABAD CELL:9398611586
- OPP TO CLOCK TOWER VRC CENTRE NELLORE CELL:6301414541

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General Science & General Awareness

Ans.1(C)	Ans.2(C)	Ans.3(A)	Ans.4(B)
Ans.5(B)	Ans.6(B)	Ans.7(C)	Ans.8(C)
Ans.9(C)	Ans.10(C)	Ans.11(C)	Ans.12(D)
Ans.13(B)	Ans.14(A)	Ans.15(D)	Ans.16(D)
Ans.17(C)	Ans.18(B)	Ans.19(A)	Ans.20(D)
Ans.21(B)	Ans.22(D)	Ans.23(C)	Ans.24(C)
Ans.25(D)	Ans.26(B)	Ans.27(D)	Ans.28(C)
Ans.29(A)	Ans.30(C)		

Ans.31(A) Justice Arun Mishra has been appointed as the Ombudsman and Ethics Officer of the Board of Control for Cricket in India (BCCI).

Justice Arun Mishra was elected as the youngest Chairman of the Bar Council of India in 1998-99.

He was appointed Judge of the High Court of Madhya Pradesh in 1999, Chief Justice of the Rajasthan High Court in 2010, and Chief Justice of the Calcutta High Court in 2012.

Devajit Saikia, former first-class cricketer, has been announced as the new secretary of the BCCI, replacing Jay Shah.

Prabhtej Singh Bhatia was elected as the Treasurer of the BCCI.

Saikia has experience in cricket administration, having served as BCCI joint secretary and secretary of the Assam Cricket Association.

Saikia was also the acting interim secretary of BCCI after Jay Shah took over as ICC Chairman.

Ans.32(C) Google has announced plans to purchase carbon credits from an Indian project that converts farm waste into biochar, marking its entry into the carbon dioxide removal (CDR) market in India.

Biochar is a type of charcoal that removes carbon dioxide from the air and improves soil quality. It provides an immediate and scalable solution compared to more costly CO2 extraction technologies.

Google has partnered with the Indian company Varaha to process agricultural waste from smallholder farms into biochar. Varaha plans to build reactors to produce biochar, which can store CO2 for hundreds of years.

Google has committed to purchasing 100,000 tons of carbon offsets from Varaha by 2030, showing long-term support for the project.

Ans.33(D) The foundation stone for a Model Resilient Village was laid on January 20, 2025.

The location is Sil/Sunani in Bawasni Gram Panchayat, Baddi, District Solan, Himachal Pradesh.

This initiative is a response to a cloudburst-induced landslide on August 14, 2023.

The landslide caused extensive loss of property and livelihoods in the region.

The project is a collaborative effort by CSIR, the Government of Himachal Pradesh, Bal Raksha Bharat, and Zee Entertainment.

The goal is to redevelop the village and enhance its resilience against future disasters.

Ans.34(B)

Ans.35(C) D Gukesh became India's No. 1 chess player, surpassing Arjun Erigaisi, and reached the fourth spot in the latest FIDE rankings with 2784 points. Magnus Carlsen continues to hold the world No. 1 position with 2832.5 points, followed by Hikaru Nakamura (2802) and Fabiano Caruana (2798).

Gukesh became the youngest chess world champion at 18 after defeating Ding Liren in December 2024, making him the second Indian after Viswanathan Anand to win a world title. Gukesh was awarded the Major Dhyan Chand Khel Ratna in January 2025, along with other athletes like Manu Bhaker, Harmanpreet Singh, and Praveen Kumar.

Ans.36(D)

Ans.37(A)	Ans.38(C)	Ans.39(C)	Ans.40(A)
Ans.41(C)	Ans.42(B)	Ans.43(D)	Ans.44(C)
Ans.45(D)			

Mathematics

Ans.46(B)

$$\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\frac{1}{9}}}} = ?$$

$$= \cfrac{1}{1+\cfrac{1}{1+\frac{9}{10}}} = \cfrac{1}{1+\frac{10}{19}} = \frac{19}{29}$$

Ans.47(C) Unit digit = x
Ten's digit = x+1
x+ x+1 = 9
2x=8 => x=4
So Number= 10(x + 1) + x = 50 + 4 = 54

Ans.48(D) 2.55+ 22.5 + 2222.555+ 222.5555
= (2+22+2222+222) + (0.5 + 0.55 + 0.555+ 0.5555)
= 2468 + 2.1605
= 2470.1605

Ans.49(A) $\sin^2A + \cos^2A = \sin^2 45 + \cos^2 45$
= 1/2 + 1/2 =1

Ans50(C) Lets assume B's Capital = B
6500 × 12 /4 × B = 3/5
B = 6500 × 5 = 32500

Ans.51(D) Upstream speed = 2 /1/3 = 6 km/hr
Downstream speed = 2/8 × 60 = 15km/hr
So speed of stream = (15 − 6)/2 = 9/2 = 4.5 km/hr

Ans.52(A) Difference= $P(r/100)^2 \times [(r+300)/100]$
$899 = P (10/100)^2 [310/100]$
899 x 100 x 100 =P × 310
899000/31 = P
P = 29000

Ans.53(C) Required Ratio = 215/480 = 43 : 96

Ans.54(A) Require Average = (295 + 400 + 418)/3 = 1113/3 = 371

Ans.55(B) (418 − 400)/400 x 100 =18/4 = 4 1/2 %

Ans.56(C) Speed = 80 km /hr = 108 x 5/18 =30 m/sec
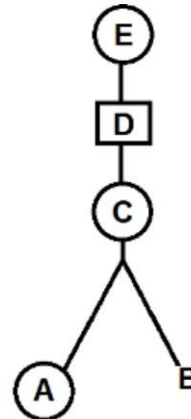L= s x time taken
= 30 x 7 =210 m

Ans.57(B) 11/37 = 0.29 < 15/49 = 0.306 < 32/47
= 0.68 < 25/17 = 1.47

Ans.58(A) 4P + 2E + 6S = 24
2P + E + 3S = 12
8P + 12E + 4S = 64
2P + 3E + S = 16
Adding (1) and (2)
4P + 4E + 4S =28

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P + E + S = 7
So 3P + 3E + 3S = 21

Ans.59(D) Calculate Number of 5 in the series and that number is As 2 × 5 make 10
So here to find number of 5

5 = 1	30 = 5 × 6
10 = 5 × 2	35 = 5 × 7
15 = 5 × 3	40 = 5×8
20 = 5 × 4	45 = 5 × 9
25 = 5 × 5	

So number of 5= 10
Trailing zeros =10

Ans.60(B) Largest 4 digit number = 9999
LCM of 6, 18, 27, 45 = 270
When 9999 /270 Remainder = 9
So largest number which is divisible by
6,18,27,45 = 9999 – 9 = 9990

Ans.61(A) $P^5 + 1/P^5 = \sqrt{5}$
Take square of both sides
$P^{10} + 1/P^{10} + 2 \times P^5 \times 1/P^5 = 5$
$P^{10} + 1/P^{10} = 5 - 2 = 3$

Ans.62(C) Prabha 1 hr work = 1/40
Ravi's 1 hr work = 1/75
They work together in 1 hr = 1/40 + 1/75
= (15+8)/600 = 23/600
10 hr work = 23/600 × 10 = 23/60
Work finish in 60/23 days

Ans.63(D) Let income be 5x, 6x respectively
Expenditure is 4y, 5y respectively
5x – 4y = 4000
6x – 5y = 4000
By solving both we got
x = 4000
So income of A = 5 ×4000 = 20000

Ans.64(C) Total age of 30 students = 30 × 15 = 450 years
Let the average of new student = x
450 + 10 x= 40 × 15.25
10x = 610 – 450 =160
x = 16

Ans.65(B) 10 dozen Banana = 120
When ½ is added total number of banana
= 120 + 60 = 180
15 dozen Mangoes = 15 × 12 = 180
When 1/3 added total Mangoes = 180 + 60 = 240
20 dozen apple = 20 × 12= 240
When ¼ added total Apples = 240 + 60 = 300
Total fruits = 180 + 240 + 300 = 720

Ans.66(A) $4x^2 – x – 3$
$=4x^2 – (4 – 3) (x – 3)$
$= 4x(x – 1) +3 (x – 1)$
$=(x – 1)(4x + 3)$

Ans.67(B) Median = 6, 6, 6, 7, 7, 8, 8, 8, 8
Median is the term which come in middle after arranging series in ascending order so here 7.
Mode is the term whose frequency is more so 8.

Ans.68(B)

$$? = 2 - 1 + \left(\frac{3}{4} + \frac{7}{8} - \frac{5}{6} \right)$$

$$= 1\frac{19}{24}$$

Ans.69(B) cotA = 24/32
cosA/sinA = 3/4
(sinA + CosA)/(sinA –cosA) = (4+3)/(4-3) =7

Ans.70(A) Total Number of pen = 10 x 10 =100
Cost Price of 100 pen = 8 x 100 =800
Selling price = 800 x 112/100 = 896

General Intelligence and Reasoning

Ans.71(B)
Ans.72(B)

Ans.73(B) World Cancer Day held on 4th February.
Ans.74(C) $4 \to (4)^3 \to (64-1) = 63$
$8 \to (8)^3 \to (512-1) = 511$
$7 \to (7)^3 \to 343$
$9 \to (9)^3 \to (729-1) = 728$

Ans.75(C)
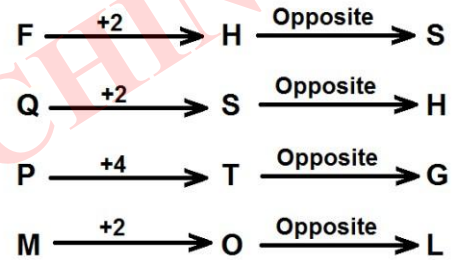
Ans.76(B) 28
Ans.77(D) *©&@%
Ans.78(D) Cannot be determined
Ans.79(A) $H \to 8 \to (8)^2 \to 64 \to 6+4 \to 10$
$S \to 19 \to (19)^2 \to 361 \to 3+6+1 \to 10$
$M \to 13 \to (13)^2 \to 169 \to 1+6+9 \to 16$
$V \to 22 \to (22)^2 \to 484 \to 4+8+4 \to 16$
$U \to 21 \to (21)^2 \to 441 \to 4+4+1 \to 9$
$B \to 2 \to (2)^2 \to 4$
$N \to 14 \to (14)^2 \to 196 \to 1+9+6 \to 16$
$P \to 16 \to (16)^2 \to 256 \to 2+5+6 \to 13$

Ans.80(B)
Ans.81(C)
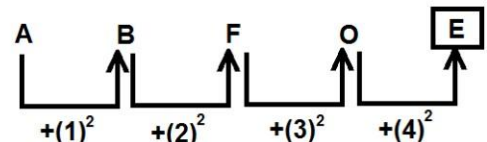
Ans.82(B)
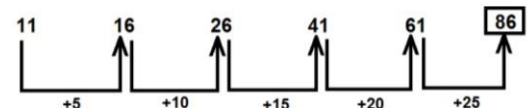
Ans.83(C) 22×6+16-4÷12 =?
According to the question-
22+6×16÷4-12 = ?
= 22+6× 4-12
= 22+24-12
= 46-12
= 34

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Ans.84(B)

+3	+3	+3	+3	+3	
M	O	I	S	T	
↓	↓	↓	↓	↓	
P	R	L	V	W	(Opposite)
↓	↓	↓	↓	↓	
K	I	O	E	D	

In the dame way

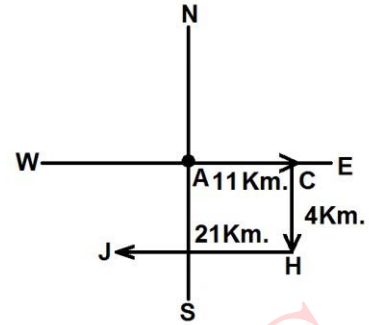| +3	+3	+3	+3	+3	
C	R	A	V	E	
↓	↓	↓	↓	↓	
F	U	D	Y	H	(Opposite)
↓	↓	↓	↓	↓	
U	F	W	B	S	

Ans.85(C)   3, 5, 1, 2, 4
Ans.86(B)   21453
Ans.87(C)   Hugli
Ans.88(D)   Except option (D), all are prime numbers.
Ans.89(D)
Ans.90(B)
Ans.91(D)

Ans.92(B)
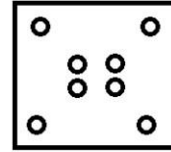
Ans.93(A)
Ans.94(D)
Ans.(95-97)

Ans.95(B)   North-east
Ans.96(C)   North-west
Ans.97(D)   Data inadequate
Ans.98(D)
Ans.99(A)   5
Ans.100(B) Wednesday

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