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## **Railway Group D**

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# Solution



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Gana	General Science & General Awareness Ans.27(A) Gyanendra Pratap Singh, Assam Police chief,				
the second second second	ral Science & General Awareness	A113.27 (A)	has been appointed as the new Director General		
Ans.1(B)	Bagh caves is in Madhya Pradesh		(DG) of the Central Reserve Police Force		
Ans.2(B) Ans.3(D)	Jawaharlal Nehru Sumant		(CRPF).		
Ans.4(B)	Diamond		The appointment was approved by the Appoint-		
Ans.5(B)	In1761		ments Committee of the Cabinet (ACC) following a proposal by the Union Home Ministry.		
Ans.6(C)	President		Singh will serve as the CRPF chief until further		
Ans.7(B)	Infrared		orders or until his superannuation on January 31,		
Ans.8(B)	Coating a Zinc on iron		2027.		
Ans.9(C)	Indian Disturbances		He has previously served in the Special Protec-		
Ans.10(C) Ans.11(B)	Indigo Disturbances Dadabhai Naoroji		tion Group (SPG) and the National Investigation		
Ans.12(A)	Gujarat		Agency (NIA), along with holding senior roles in		
Ans.13(D)	Kanishka		the state police.		
Ans.14(C)	Namdev		Prior to Singh's appointment, 1993-batch IPS of- ficer Vitul Kumar was assigned additional charge		
Ans.15(C)	Ibn Battuta		of CRPF DG after the retirement of Anish Dayal		
Ans.16(A)			Singh on December 31.		
Ans.17(A)			The CRPF is India's largest paramilitary force,		
Ans.18(D)	Gallium-Ga		with a strength of nearly 300,000 personnel.		
Ans.19(B)	Ornithophily Cheetah	Ans.28(D)	The World Monuments Fund (WMF) has included		
Ans.20(A) Ans.21(B)	Decreases slightly		the Musi River Historic Buildings in Hyderabad on		
Ans.22(B)	The maximum numbers of Anglo Indians who can		its World Monuments Watch list.		
ζ,	be nominated to the Lok Sabha is 2.		This inclusion highlights the urgent need for preservation amid environmental challenges and		
Ans.23(C)	Only in the event of equality of votes		urban development.		
Ans.24(D)	State Legislative Assemblies		The Musi River Historic Buildings were spotlight-		
Ans.25(C)	Union Home Minister Amit Shah virtually laid the		ed alongside 24 other global sites in the recent		
	foundation stone for a composite indoor shooting range (CISR).		list.		
	The CISR will be constructed at the Sardar Val-		The Musi River is a key tributary of the Krishna		
	labhbhai Patel National Police Academy (NPA).		River, originating in the Ananthagiri Hills, near		
	The event took place on the occasion of the 20th		Vikarabad, and flowing through Telangana. The river flows into two artificial lakes: Himayat		
	Foundation Day of the National Disaster Re-		Sagar and Osman Sagar, which were once major		
	sponse Force (NDRF).		sources of drinking water for Hyderabad and Se-		
	The 20th Foundation Day celebrations of the		cunderabad.		
	NDRF were held in Vijayawada. CISRs are used to train military personnel to im-		The river was historically called Muchukunda and		
	prove shooting skills and prepare for challenging		separates Hyderabad's Old City from its newer		
	scenarios.		parts. The Telangana government plans to conserve		
	These ranges are equipped with advanced target		nearly 12 heritage structures.		
	systems and control software.		Redevelopment is proposed under the Musi		
	CISRs are designed with several safety features		Riverfront Development Corporation Limited		
Ano 26(P)	to ensure secure training environments. The Indian Army's Motorcycle Rider Display		(MRDCL).		
Ans.26(B)	Team, known as the "Daredevils," set a new		Projects for the State Central Library and British		
	world record.		Residency are already underway. The WMF has allocated \$2 million for preserva-		
	The record was for creating the highest human		tion efforts.		
	pyramid on moving motorcycles.		Local partners will focus on research, education,		
	The formation stood 20.4 feet tall and included 40		and conservation planning.		
	men on 7 motorcycles. The team traveled a distance of 2 kilometers	Ans.29(C)	Flower sap		
	along Kartavya Path, from Vijay Chowk to India	Ans.30(B)	300gms		
	Gate in New Delhi.	Ans.31(D)	45-55 years		
	This record-breaking performance will be repeat-	Ans.32(A)	The amount of biomass produced per unit area over a time period by plants during		
	ed during the Republic Day parade on January		Photosynthesis.		
	26.	Ans.33(B)	Pacemaker		
	The Daredevils are part of the Indian Army's	Ans.34(B)	-40		
	Corps of Signals. They have achieved 33 world records, including	Ans.35(B)	Myopia		
	entries in the Guinness Book of World Records,	Ans.36(C)	Keyboard		
	Asia Book of Records, and Limca Book of Rec-	Ans.37(B) Ans.38(B)	Polarisation Theory of relativity		
	ords.	Ans.30(D) Ans.39(A)	Joseph Priestley		
	The Daredevils team was formed in 1935.	Ans.40(C)	Diamond		
	Since their inception, they have performed over	Ans.41(C)	Louis Pasteur		
	1,600 motorcycle displays across India.	Ans.42(D)	Copper, zinc and nickel		
		Ans43(B)	Hydrogen sulphide		

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Ans.44(B)	Berhane Tesfay (Eritrea) won the men's race with
	a time of 2:11:44. Merhawi Kesete (Eritrea) finished second at
	2:11:50.
	Tesfaye Demeke (Ethiopia) took third place with a time of 2:11:56.
	Joyce Chepkemoi Tele (Kenya) won the women's race in 2:24:56.
	Shitaye Eshete (Bahrain) finished second with a
	time of 2:25:29. Medina Deme Armino (Ethiopia) took third place
	in 2:27:58.
	Tesfay won \$50,000 for his victory. Tele's win was her second marathon victory in
Ama (5(A)	three months.
Ans.45(A)	Sweden Mathematics
Ama 46(C)	
Ans.46(C)	$\frac{5-(-2)}{X-3} = -1$ $\frac{7}{X-3} = -1$
	$\frac{1}{X-3} = -1$ 7 = -x+3
A	x = -4
Ans.47(D)	Let side of square = a Radius of circle = r
	4a = 2πr π_a
	$\frac{\pi}{2} = \frac{a}{r}$
	Required ratio $= \frac{a^2}{\pi r^2} = \frac{1}{\pi} \left(\frac{a}{2}\right)^2 = \frac{1}{\pi} \times \frac{\pi^2}{4} = \frac{\pi}{4} = \frac{22}{7 \times 4}$
Ama 49(A)	$\frac{11}{14} = 11:14$
Ans.48(A)	Distance b/w parallel lines $\frac{7-(-8)}{\sqrt{3^2+4^2}} = \frac{15}{5} = 3$
Ans.49(D)	Exterior angle of a regular polygon = $\frac{360}{n}$ Each exterior angle should be factor of 360
Ans.50(C)	Area of trapezium = $\frac{1}{2}$ × 14.6 × 4.5 = 32.85
Ans.51(A)	a+b = 2c
	a-c = c-b = -(a-c) = b-c $\frac{a}{a-c} - \frac{c}{b-c} = \frac{a}{a-c} - \frac{c}{(a-c)}$
	$\frac{a-c}{a-c} = 1$
Ans.52(B)	$\frac{a-c}{a-c} = 1$ $\frac{2}{x-2+\frac{1}{x}} = \frac{1}{7}$
	$x + \frac{1}{x} + \frac{1}{x} - 2 = 14$
	$x + \frac{1}{2} = 16$
Ans.53(C)	$(y + \frac{1}{2y}) \times 2 = 4 \times 2$
	$2y + \frac{1}{y} = 8$
	$8y^{3} + \frac{1}{y^{3}} + 3 \times 2y \times \frac{1}{y} (2y + \frac{1}{y}) = 8^{3}$
	$8y^3 + \frac{1}{y^3} = 5/2 - 6 \times 8 = 464$
Ans.54(D)	$\frac{1+tan18^{0}}{1-tan18^{0}} \frac{tan45^{0}+tan18^{0}}{1-tan45^{0}+tan18^{0}}$
	$tan (45^{\circ} + 18^{\circ}) = tan 63^{\circ}$
Ans.55(A)	$\frac{1}{2}\cos 15:2\sin 7\frac{1}{2}:\cos 7\frac{1}{2}$
	$\frac{1}{2}\cos 15 : \sin 15 :$ $\frac{1}{4} \times \sin 30^0 = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$
Ans.56(C)	$\frac{1}{4} \times \sin 30^{\circ} = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ $\cos^{2} (90^{\circ} - 70^{\circ}) + \cos^{2} 70^{\circ}$
A115.50(C)	$sin^2 70^0 + cos^2 70^0 = 1$
Ans.57(B)	Sum = $\frac{1}{2}(2 \times 413 + (9 - 1) \times 18) = \frac{9}{2} \times 970 = 4365$
Ans.58(D)	H.C.F = 12 $\frac{a^2-b^2}{a+b} = a-b$
Ans.59(A)	
	$(1 + \frac{1}{1 + \frac{1}{100}}) - (1 - \frac{1}{1 + \frac{1}{100}})$

	201 1 200
	$\frac{201}{101} - \frac{1}{101} = \frac{200}{101}$
Ans.60(D)	$1 - \frac{1}{12} = \frac{11}{12}$
Ans.61(B)	$y = 1 + \frac{1}{y}$
	$y^2 = y + 1$
Ans.62(C)	$y^2$ -y -1 = 0 3 <sup>4</sup> gives unit digit
Alis.02(C)	$(34)^{24}$ gives unit digit
	3 <sup>3</sup> gives unit digit 7
Anc 62(P)	$3^{99}$ = [(34) <sup>24</sup> × $3^{3}$ ] gives unit digit (1x7) = 7 Required ratio = 5 : 4
Ans.63(B)	Cost of table at which he gain 7.5% = $\frac{1431}{(5+4)}$
	= Rs.795
Ans.64(C)	Age of class teacher = 19+40
	= 59 years
Ans.65(D)	1066-391+89-x =27 764 – 27 = x
	X = 737
Ans.66(C)	Relative speed = 64=8 = 72 kmph
	$= 72 \times \frac{5}{18} = 20$ m/s
	Time it will take to pass man = 130/20 = 6.5 seconds
Ans.67(D)	Let the age of younger person is x,
	Then elder person's age is (x+18)
	= 3(x-8) = (x+18-8) [8 years before = 3x -24 = x +10
	= x =17
A	So, the age of elder person, $= x+18 = 35$ yeas
Ans.68(A)	Let $C = x$ . Then $B = x/2$
	So, $A = x/4$
	A:B:C = 1:2:4 C'a abara = $I(4/7) \times 625(1) = Ba \cdot 257(2)$
Ans.69(D)	C's share = [(4/7)×6251] = Rs. 3572 The tank will completely filled =
	$\frac{(24\times40\times30)}{(40\times30+24\times30-24\times40)} = 30 \text{ minutes}$
Ans.70(A)	Average speed = $\frac{(10+5)(10-5)}{10}$ 7.5 km
	10
Gene	eral Intelligence and Reasoning
Ans.(71-74)	Row 1 Ajeet Dhavan Chand Vacant Brij
	Row 2 Parthiv Vacant Rahul Sunil Qasim
Ans.71(B) Ans.72(C)	
Ans.73(D)	Only Sunil is sitting in middle rest are sitting at
A == 74(C)	corner.
Ans.74(C) Ans.(75-77)	
,	
	$\bigcirc$
Ans.75(D)	
Ans.76(B)	
Ans.77(C)	437-23+18×161 ÷ 258 = 245
	After sign change
Ans.77(C) Ans.78(B)	After sign change 437÷23×18+161-258=245
Ans.77(C) Ans.78(B) Ans.79(D) Ans.80(D)	After sign change
Ans.77(C) Ans.78(B) Ans.79(D)	After sign change 437÷23×18+161-258=245

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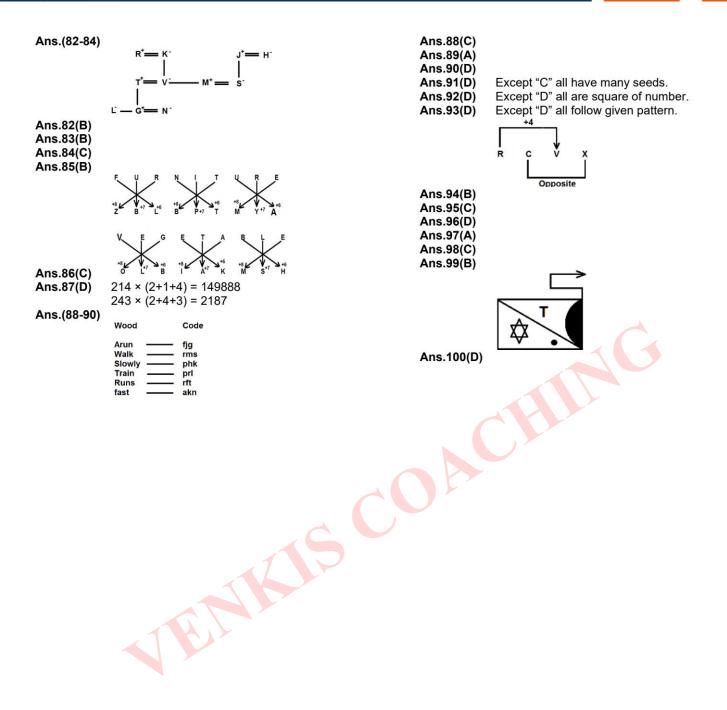
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