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General Science & General Awareness

Ans.5(C)

Ans.6(C) Ans.7(A) Ans.8(B) Every year on January 21, Manipur, Meghalaya, and Tripura celebrate their Statehood Day. These states attained full statehood under the North Eastern Region (Reorganization) Act of 1971. This occasion reflects the evolution of these states as integral parts of the Indian Union. The north-eastern region of India is often called the "Seven Sisters," comprising Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, and Tripura. This region is known for its lush hills, fertile plains, dense greenery, and rare exotic flora and fauna. Manipur was granted statehood in 1972, preserving its unique identity. Meghalaya's Garo and Khasi rulers acceded to India in 1947. Tripura was a princely state before merging with India on November 15, 1949. Chairman, TRAI, Mr. Anil Kumar Lahoti, inaugu-Ans.9(D) rated the SATRC Workshop on Spectrum. The workshop is being hosted by the Telecom Regulatory Authority of India (TRAI) at Hotel Double Tree by Hilton, Goa. The event is organised by the Asia Pacific Telecommunity (APT). The three-day workshop focuses on effective spectrum management in the evolving telecommunications landscape. Delegates include SATRC member countries, Working Group Members, industry experts, and government representatives. Ans.10(C) Parakram Diwas 2025 is being celebrated from 23rd to 25th January 2025 at Barabati Fort, Cuttack, the birthplace of Netaji Subhas Chandra Bose. The celebration honours Netaji on his 128th birth anniversary. The event has been inaugurated by Shri Mohan Charan Majhi, Chief Minister of Odisha, on 23rd January 2025. Parakram Diwas commemorates Netaji's birth anniversary, first observed at Victoria Memorial, Kolkata. Significant past events include: 2022: Unveiling of Netaji's hologram statue at India Gate, New Delhi. 2023: Naming of 21 unnamed islands in Andaman and Nicobar after Param Vir Chakra awardees. 2024: Event inauguration at Red Fort, Delhi, site of the INA trials. In 2025, the Ministry of Culture is organising the celebration in Cuttack, Odisha. Ans.11(A) UNESCO Regional Office for South Asia, in collaboration with MeitY and Ikigai Law, organized a two-day stakeholder consultation on AI Readiness Assessment Methodology (RAM) in India. BALAJI COLONY TIRUPATI CELL 9391794863 60000 DILSUKHNAGAR HYDERABAD CELL:9398611586 VENKIS COACHING OPP TO CLOCK TOWER VRC CENTRE NELLORE CELL:6301414541

The event took place at IIIT Bangalore on 16th January and Nasscom Al office on 17th January. The consultation was the second of five planned consultations under the AI RAM initiative by UNESCO and MeitY.

The aim is to develop an India-specific AI policy report identifying strengths and opportunities within India's AI ecosystem.

The AI RAM will provide actionable insights to promote responsible and ethical AI adoption across sectors.

Ans.12(A)

The Ministry of Women and Child Development has celebrated the 10th anniversary of the Beti Bachao Beti Padhao (BBBP) scheme, which focuses on protecting, educating, and empowering the girl child in India.

The inaugural event has been held on January 22, 2025, at Vigyan Bhawan, New Delhi.

The celebrations have highlighted key achievements, including an improvement in the national Sex Ratio at Birth (SRB) from 918 in 2014-15 to 930 in 2023-24.

The gross enrolment ratio of girls at the secondary education level has increased from 75.51% to 78%.

The 10th-anniversary celebrations have lasted from January 22 to March 8, culminating on International Women's Day.

BBBP, launched by Prime Minister Narendra Modi on January 22, 2015, has become a national movement addressing gender imbalance and ensuring opportunities for girls.

The program has re-enrolled over 100,000 out-ofschool girls and launched impactful initiatives like the Yashaswini Bike Expedition and Kanya Shiksha Pravesh Utsav.

Ans.13(C) The three-day Flamingo Festival 2025 in Andhra Pradesh concluded on January 20, 2025.

The festival focused on protecting the rich biodiversity of Pulicat Lake and Nelapattu Bird Sanctuary.

The festival raised awareness about the ecological significance of Pulicat Lake and Nelapattu Bird Sanctuary.

The greater flamingo is the state bird of Gujarat.

India also has a resident population of around 650,000 lesser flamingoes (Phoeniconaias minor), which are mostly found in the salt deserts of Guiarat.

Flamingo City lies in the Rann of Kutch, 10 km northeast of Nir at the tip of Pachchham Island south of Solanki Bet.

The 27th International Congress on Glass (ICG) Ans.14(C) has been significant for India, as it marks nearly four decades since the last ICG congress was held in India in 1986.

The event has been hosted by CSIR-Central Glass and Ceramic Research Institute (CSIR-CGCRI), Kolkata, coinciding with its 75th anniversary in 2025.

The theme for ICG 2025 has been "Glass: A Smart and Indispensable Material for Sustainable Society."

The congress has focused on emerging technologies and the role of glass in creating a Green World.

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The ICG congress has been a triennial event or-

ganized by the International Commission on

Glass (ICG) to promote research cooperation and

The Government of India has launched Entity

Entity Locker is a digital platform designed to

transform the management and verification of

Entity Locker has been developed and is being

managed by the National e-Governance Division

The Digital India Corporation (formerly Medial Lab

Asia) is a non-profit organisation under the Union Ministry of Electronics and Information Technolo-

The platform is a cloud-based system for storing,

sharing, and verifying digital documents and cer-

"Entity" refers to any business organisation, gov-

ernment or private, registered in India, including

government organisations, private companies,

Karnataka Men's Senior Cricket Team won their

5th Vijay Hazare Trophy by defeating Vidarbha by

The final was held at Kotambi Stadium, Vadodara, Gujarat, in the 2024-25 Vijay Hazare Trophy. The Vijay Hazare Trophy is a premier 50-over limited overs cricket tournament for senior men's teams, organized by the Board of Control for

The tournament took place from 21 December 2024 to 18 January 2025, with 38 Ranji teams participating across various venues in the coun-

Karnataka had previously won the Vijay Hazare Trophy in the following seasons: 2013-14, 2014-

Dhruv Shorey was the top scorer for Vidarbha

Player of the Final: Ravichandran Smaran (Kar-

Player of the Tournament: Karun Nair (Vidarbha)

Nitrogen is absorbed as ammonium (NH +4a cat

Captain of Karnataka: Devdutt Padikkal Captain of Vidarbha: Karun Nair

for his tournament aggregate of 779 runs.

MSMEs, and non-profit organisations.

Locker under its e-Governance project.

business/organisation documents.

under the Digital India Corporation.

knowledge dissemination.

gy (MeitY).

tificates

try.

36 runs in the final.

Cricket in India (BCCI).

15, 2017-18, and 2019-20.

Laws of Photo-Electric Effect

with 110 runs.

nataka)

Energy

New India

Three

Haematin

Kepler's first law

Venki's

Ans.15(B)

Ans.16(A)

Ans.17(C) Ans.18(B)

Ans.19(A)

Ans.20(C)

Ans.21(D) Ans.22(B) Ans.23(A) Ans.24(D) Ans.25(A)

Ans.26(D) Ans.27(C) Ans.28(C)

Ans.29(D) Ans.30(A)

Ans.31(A) Ans.32(C)

Ans.33(A) Ans.34(B) Ans.35(B) Ans.36(B)

- Ans.37(D) Thalassemia is a blood disorder and inherited disease. Thalassemia is an example of frame shift mutation.
- Ans.38(C) Eutrophication of a water body enhances organic matter production and Biological oxygen demand both.
- Ans.39(B) Away from mid-point opposite to hinges
- Ans.40(B) The moment of inertia of a body does not depend upon its angular velocity.
- Ans.41(B) Nucleons are regarded as Composites of Subparticles known as Quarks. A quark is an elementary particle and a fundamental constituent of matter.
- Ans.42(B) Antacid tablets consist of Aluminium Hydroxides [Al(OH)3] and Magnesium Hydrox ides [Mg(OH)2]. Which neutralizes stomach acidity.
- Ans.43(B) Zinc Phosphide (Zn3P2) poison is used for Killing rats.
- Ans.44(B)
 Ans.45(C) National Science day is celebrated in India on 28 February each year to mark the discovery of the Raman effect by Indian physicist Sir Chandra sekhara Venkata Raman on 28 February, 1928.

Mathematics

Ans.46(A)	Ans.46(A) 4/7 = 16/x		
	$x = (16 \times 7)/4$		
	x = 28		
Ans.47(C)	Cost (C) = Number of articles (N) × Price per		
	piece (P)1		
	$C = (N+5) \times (P-2) \dots (2)$		
	$C = (N+2) \times (P-1)$ (3)		
	Now comparing equation 1 and 2		
	$NP = (N+5) \times (P - 2)$		
	NP = NP - 2N + 5P - 10		
	5P – 2N = 10 (4)		
	Similarly, comparing equations 1 and 3 we will get		
	2P – N = 2		
	Now, solving the equations 3 and 4 we will get		
	N = 10, and P = 6		
	Hence, cost is 60.		
Ans.48(C)	Successive discount= - $x - x + x^2/100$		
	= -4 - 4 + 16/100		
	= 7.84%		
Ans.49(A)	Total work = 40×30= 1200 units		
	First 10 days= 10× 40 = 400		
	Second 10 days=10× 35 = 350		
	Third 10 days=10× 30 = 300		
	Total work in 30 days = 1050		
	Left out work = 150 units.		
	Now for the next 10 days, there are 25 workers,		
	they will complete the work in		
	150/25 = 6 days.		
	Total days required = 30 + 6 = 36 days.		
Ans.50(B)	Total units of work = 55×3(Efficiency × Time		
5 S	= Work)		
	If they work together= $(55\times3)/5 = 33$ days.		
Ans.51(A)	The time taken by the men to travel a distance x		
	km is 1hr 45 min, but this distance of x will be		
	travelled by sound in 15 minutes. This is because		
	had he been at his initial position then he would		
	have heard the gun shots only after 2 hours. But		
	he heard it 15 min earlier because he has		
	travelled a distance of x km. hence		
	(Time of men)/ (Time of sound) = 105/15		

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North America- Aconcagua

ion) or nitrate (NO-3 an anion)

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	Since speed and time are inversely proportional is	Ans.62(B)	
	distance is same, then (Speed of map)/ (Speed of sound) =15/105 = 1/7		27/4-23/5
	(Speed of men)/ (Speed of sound) =15/105 = 1/7 Speed of men = 350/7= 50 mps		23/20
Ans.52(A)	As the distance is same, then the speed and time		25/20
an in an	are inversely proportional,		175 - 82
	(New speed)/(Earlier speed) = 5/4		$=\frac{135-92}{23}=43/23$
	(New time taken)/(Earlier time taken) = 4/5 But the difference in time taken = 5 minutes		25
	Hence earlier time taken = 25 minutes, but earlier	Ans.63(A)	HCF = 143= 11×13 LCM = 53482 = 11 ² ×13 × 17 × 2
	he was late by 15 minutes. So to reach office on		Number 1= $26741 = 11^2 \times 13 \times 17$
	time he has to take 25 – 15 = 10 minutes		Then number 2 will be $11^2 \times 13 \times 2 = 286$
Ans.53(B)	$(c \times b \times n)/100 = (d \times b^2 \times n^2)/100$		Because HCF × LCM = Number 1 × Number2
Ano Ed(A)	c/d = bn/1	Ans.64(A)	Let that number be N, then we can mark that if 2
Ans.54(A)	S : W = 4: 1 and W: D = 4: 1 Combining both the ratio S: W: D = 16 : 4 : 1		is added to N then N will become an multiple of
	Now total asset = $9000/15 \times 21 = 12600$		15,45,and 80 N = 15a + 13
Ans.55(D)	Let the radius be 3x and 4x and height be 16y		N + 2 = 15(a + 1)
	and 9 y		Similarly,
	$v_1/v_2 = (1/3 \times 9x^2 \times 16y)/(1/3 \times 16x^2 \times 9y) = 1/1$		Now finding LCM of 15, 45 and 80 which comes
Ans.56(A)	Average = total/number of components = (96 + 136+ 231+ 204+ 146+ 255)/6		out to be 720 Now the format of the number is N+2= 720x
	1068/6 = 178		Hence N = $720x - 2$
Ans.57(B)	Engineering + industrial = 367		For n to be greatest 3 digit number we can put x
	Consumers + plantation = 350		= 1 only
Ano 59(D)	= 367 - 250 = 17 units		$N = 720 \times 1 - 2 = 718$
Ans.58(B) Ans.59(C)	(136 – 96)/136×100 = 29.41 ≈ 30% Let x=0.242424(1)	Ans.65(A)	Average of the even numbers between 21 and 41 First even number= 22
An3.00(0)	100x = 24.242424(2)		And last even number = 40
	Now subtracting 1 from 2 we will get		Hence average of even numbers = (first number +
	99x = 24		last number)/2
Ano 60(A)	Hence x = 24/99= 8/33		= (40+22)/2 = 31
Ans.60(A)	You can manually check it or follow osculator method of finding the divisibility	Ans.66(C)	Average speed = (Total distance)/(total time)
	The osculator of 19 is 2		$\frac{40+60+70}{2} = \frac{170}{1} = 17$
	Hence if we take 27193		$\frac{\frac{40}{16} + \frac{60}{12} + \frac{70}{28}}{\frac{40}{16} + \frac{60}{12} + \frac{70}{28}} = \frac{170}{10} = 17$
	Step 1: Take the 1 st digit from the right and	Ame (7/D)	
	multiply it with 2 and if the osculator is positive add it otherwise subtract it from the rest of the	Ans.67(B)	He has to secure = $63.50 + 36.50 = 100$ marks to pass the exam which corresponds to 40%, then
	number		total marks will be
	2719 + 2 × 3 = 2725		100/40 ×100 = 250 marks
	272 + 2 × 5 = 283	Ans.68(A)	41×100 /102.5= 40
	$28 + 2 \times 3 = 34$	Ans.69(A)	After n operations the quantity of milk
	$3 + 2 \times 4 = 11$ (the final should come in multiple of 19 or if we can find in between steps 19 or		= [a(1 – b/a)n] = 50(1 – 5/50)(1 – 5/50) = 50×9/10×9/10 = 40.5
	multiple of 19 then also we can tell it is divisible	Ans.70(A)	Effect on volume can be calculated
	by 19. Hence it is not divisible by 19		$= x + y + z + (xy + yz + zx)/100 + xyz/100^{2}$
	Now 21793		Here $x = -5$, $y = -5$ and $z = 2$
	2179 + 2 × 3 = 2185 218 + 2 × 5 = 228		= 7.945%
	$22 + 2 \times 8 = 38$ divisible by 19 hence option (a)	Gen	eral Intelligence and Reasoning
Ans.61(C)	The cyclicity concept of 2 and 3 is 4 and 4 is 2	Ans.(71-73)	
	and 5 its unit digit will always be 5.	,	
	2^{11} the unit digit will be $11/4$ = remainder will be 3 then the unit digit will be the third term in the		
	cycle of powers of 2		((G H)) (U)
	2^1 = Unit digit of 2 is 2		
	2^2 = Unit digit of 4 is 4		ME/
	2^3 = Unit digit of 8 is 8		F (L)
	2 ⁴ = Unit digit of 16 is 6 Then it will repeat again.		
	Similarly for 3 ¹² it is also cycle 0f 4, the	Ans.71(D)	-
	remainder 12/4 = 0, hence it will be the last term	Ans.72(C)	
	i.e $3^4 = 81$ unit digit is 1.	Ans.73(D)	In first quadrant
	For 4^{13} , since 13 is odd, hence unit digit will be 4 And for 5^{14} units digit will be 5 only	Ans.74(C)	In first quadrant (43-32)
			11 (11+1)
			<u>x</u> - <u>x</u>

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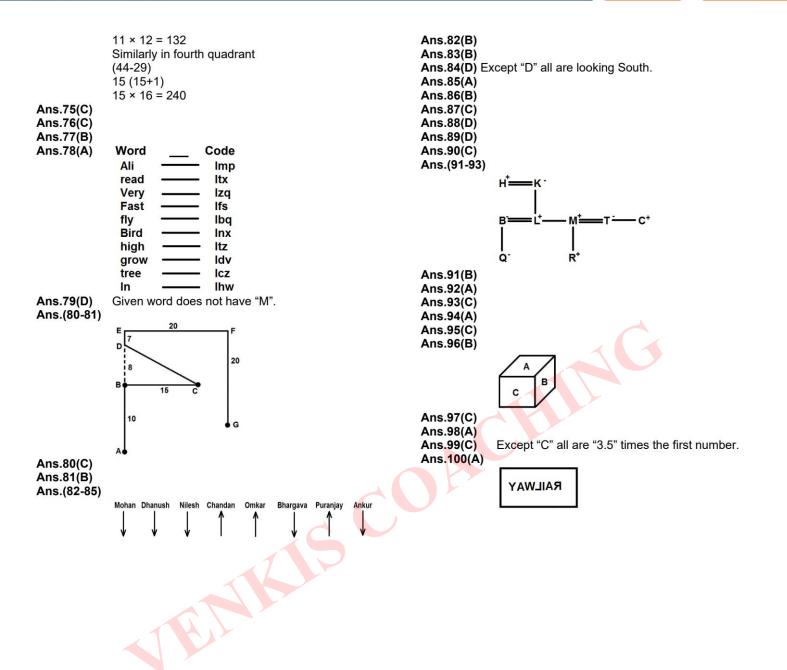
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