Г

SSC GD Constable Practice Set

Answers with Explanation



रियारि स्वारिय

দিন গুৰাটে

দিন গুৰাদেও

জা গুৰাদে<u>গ</u>

 $15 \times 3 + 1 = 46$ $46 \times 4 + 1 = 185$ গ্যাচিডাম্ন $185 \times 5 + 1 = 926$ 21. (d) The alternate numbers are squares of even numbers and each square number is followed by the number one less than itself. $16 \Rightarrow (4)^2 - 1 = 15$ Therefore, 64 - 1 63 22. (c) C A L C U T T A DELHI $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ 8 2 5 8 9 6 6 2 7 3 5 4 1 Therefore, CALICUT $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ 8 2 5 1 8 9 6 23. (b) T \Rightarrow 20 দ্যা গুৰায়ে \downarrow Position Number in English alphabet. Т E Ν \downarrow \downarrow \downarrow 20 + 5 + 14 = 39Similarly, Р Т Ι \downarrow \downarrow \downarrow 20 + 9 + 16 = |45|24. (b) First Premise is Particular Affirmative (I-type). Second Premise is Universal Affirmative (Atype). Some phones are watches. দ্যাগ্রবায়ে All watches are guns. $I + A \Rightarrow$ I-type of Conclusion "Some phones are guns". Conclusion II is Converse of this Conclusion. B C 25. (c) Η D E The rectangles are : ABIH; ABFG; ACDH; HIFG; দ্যান্ত আৰ্ম HDEG; IDFE; BCDI; BCEF; ACEG

- 26. (d) The Brihadeshwar Temple at Thanjavur (Tanjore) in the Indian state of Tamil Nadu, is a Hindu temple dedicated to Shiva and a brilliant example of the major heights achieved by Cholas in Tamil architecture. It is a tribute and a reflection of the power of its patron Raja Raja Chola I. It remains India's largest temple and is one of the greatest glories of Indian architecture. The temple is part of the UNESCO World Heritage Site "Great Living Chola Temples".
- 27. (b) The concept of zero as a number and not merely a symbol for separation is attributed to India, where, by the 9th century AD, practical calculations were carried out using zero, which was treated like any other number, even in case of division. The credit for inventing 'zero (0)' goes to Indian mathematicians and the number zero first appears in a book about 'arithmetic' written by an Indian mathematician 'Brahamagupta'. Zero signifies 'nothing' and the current definition calls it an 'additive identity'. The Indian mathematicians Bhaskara, Mahavira and Brahamagupta worked on this new number and they tried to explain its properties. It wasn't that somebody suddenly came up with the idea of the zero and the mathematicians throughout the world accepted it. Around 500 AD, Aryabhatta, an Indian mathematician, devised a numbers system and the symbol he used for the number zero was also the number used to represent an unknown element (x).
- 28. (a) The English word "caste" derives from the Spanish and Portuguese casta, which the Oxford English Dictionary quotes John Minsheu's Spanish dictionary (1599) to mean, "race, lineage, or breed." When the Spanish colonized the New World, they used the word to mean a "clan or lineage." However, it was the Portuguese who employed casta in the primary modern sense when they applied it to the many inmarrying hereditary Hindu social groups they encountered upon their arrival in India in 1498. The use of the spelling "caste," with this latter meaning, is first attested to in English in 1613.
- 29. (c) Pulsars are spinning neutron stars that have jets of particles moving almost at the speed of light streaming out above their magnetic poles. These jets produce very powerful beams of light.

Γ

L

- 30. (b) Raksha Mantri, Shri Rajnath Singh visited the Army Sports Institute (ASI), Pune and he named the Army Sports Institute stadium as "Neeraj Chopra Stadium".
- 31. (c) An open market operation (also known as OMO) is an activity by a central bank to buy or sell government bonds on the open market. A central bank uses them as the primary means of implementing monetary policy. The usual aim of open market operations is to control the short term interest rate and the supply of base money in an economy, and thus indirectly control the total money supply. This involves meeting the demand of base money at the target interest rate by buying and selling government securities, or other financial instruments. Monetary targets, such as inflation, interest rates, or exchange rates, are used to guide this implementation. দ্যান্ত্ৰীয়ে
- 32. (d) Charaka was one of the principal contributors to the ancient art and science of Ayurveda, a system of medicine and lifestyle developed in Ancient India. He is referred to as the Father of Medicine. The life and times of Charaka are not known with certainty. Some Indian scholars have stated that Charaka of Charaka Samhita existed before Panini, the grammarian, who is said to have lived before the sixth century B.C. Another school argues that Patanjali wrote a commentary on the medical work of Charaka. They say that if Patanjali lived around 175 B.C., Charaka must have lived some time before him. Another source about the identity of Charaka and his times is provided by the French orientalist Sylvan Levi. He discovered in the Chinese translation of the Buddhist Tripitaka, a person named Charaka who was a court physician to the Indo-Scythian king Kanishka, who in all probability reigned in the second century A.D. From the above discussion, it would seem that Charaka may have lived between the second century B.C. to the second century A.D. দ্যাগ্ৰায়ে
- 33. (d) The state has four essential elements: population, territory, government and sovereignty. Absence of any of these elements denies to it the status of statehood.
- 34. (c) A geyser is a spring characterized by intermittent discharge of water ejected turbulently and accompanied by a vapour

phase (steam). The word geyser comes from Geysir, the name of an erupting spring at Haukadalur, Iceland; that name, in turn, comes from the Icelandic verb geysa, "to gush", the verb itself from Old Norse.

- 35. (d) Pawapuri is a holy site for Jains located in the Nalanda district in Bihar. Around 500 BC, Lord Mahavira, the last of the 24 Tirthankaras achieved Moksha or Nirvana. He was cremated at Pawapuri, also known as Apapuri (the sinless town).
- 36. (c) Prime Minister Narendra Modi dedicated to the nation the renovated complex of Jallianwala Bagh Smarak in Punjab's Amritsar via video conference on August 28, 2021, to mark 102 years of Jallianwala Bagh massacre.
- 37. (d) 77-78 calories are released in a large size boiled egg. Boiled eggs are eggs (typically chicken eggs) cooked by immersion in boiling water with their shells unbroken.
- 38. (c) The Supreme Court, the highest in the country, may issue writs under Article 32 of the Constitution for enforcement of Fundamental Rights and under Articles 139 for enforcement of rights other than Fundamental Rights, while High Courts, the superior courts of the States, may issue writs under Articles 226. The Constitution broadly provides for five kinds of "prerogative" writs: habeas corpus, certiorari, mandamus, quo warranto and prohibition.
- 39. (c) Kanishka worked for preaching of Buddhism. He spread Buddhism to China, Japan, Central Asia and Tibet; and convened the 4th Buddhist Council at Kundalvana in Kashmir. Due to his works he is often called 'Second Asoka'.
- 40. (b) Diego Garcia is a tropical, footprint-shaped coral atoll located south of the equator in the central Indian Ocean. It is part of the British Indian Ocean Territory. It lies in the Chagos Archipelago at the southernmost tip of the Chagos-Laccadive Ridge a vast submarine range in the Indian Ocean.
- 41. (a) Galvanization is the process of applying a protective zinc coating to steel or iron, in order to prevent rusting. Although galvanization can be done with electrochemical and electro-deposition processes, the most common method in current use is hot-dip galvanization, in which steel parts are submerged in a bath of molten zinc.

42. (c) RBINet is a communication software, developed in 'C' and available for both DOS and UNIX machines. It allows free format messaging and file transfer on the existing BANKNET infrastructure with the help of UNIX servers installed at the 4 NCCs. Each RBINet user interacts with the local UNIX server through PADs connected to the X.25 switch. The UNIX servers in turn communicate with each other using TCP/IP over the X.25 protocol. The software allows free format messaging without any restrictions on the length of the message, enables file transfer of both ASCII-text and Binary (spreadsheets, data bases, programs etc.) files, facilitates dial-up access, and has security features such as end-to-end encryption, audit trail, etc. দ্যাগ্ৰাট

Г

L

- 43. (d) NITI Aayog and Ministry of Development of North Eastern Region (M/DoNER) have launched the North Eastern Region (NER) District SDG Index Report and Dashboard 2021–22, with technical support from UNDP. The index is based on NITI Aayog's SDG India Index.
- 44. (d) Water is transported through the plant in Xylem vessels, these begin in the roots and end in the leaves of the plant, water is translocated through a combination of "Transpirational pull" and capillary action. Xylem is one of two "conductive" tissues responsible for moving water and the products of photosynthesis (glucose) through the plant, the tissue responsible for moving the "food" around is Phloem.
- 45. (b) Sunderlal Bahuguna is a noted Garhwali environmentalist, Chipko movement leader and a follower of Mahatma Gandhi's philosophy of Non-violence and Satyagraha. The Bhoodan Movement was a voluntary land reform movement in India started by Acharya Vinoba Bhave in 1951 started at Pochampally village. Narmada is social movement consisting of tribal people, adivasis, farmers, environmentalists and human rights activists against the Sardar Sarovar Dam being built across the Narmada River, Gujarat, India. Narmada Bachao Andolan, together with its leading spokespersons Medha Patkar and Baba Amte, were the 1991 recipient of the Right Livelihood Award. Jayaprakash Narayan is

remembered especially for leading the opposition to Indira Gandhi in the 1970s and for giving a call for peaceful Total Revolution.

- 46. (c) The Portuguese State of India was established in 1505 as a viceroyalty of the Kingdom of Portugal, six years after the discovery of a sea route between Portugal and India, to serve as the plenipotentiary governing body of a string of Portuguese fortresses and colonies overseas. The first viceroy was Francisco de Almeida, who established his headquarters in Cochin. Subsequent Portuguese governors were not always of viceroy rank. After 1510, the capital of the Portuguese viceroyalty was transferred to Goa.
- 47. (b) The femur (pl. femurs or femora), or thigh bone, is the most proximal (closest to the center of the body) bone of the leg in tetrapod vertebrates capable of walking or jumping, such as most land mammals, birds, many reptiles such as lizards, and amphibianssuch as frogs. In vertebrates with four legs such as dogs and horses, the femur is found only in the rear legs. The femur is the largest bone in the human body. The head of the femur articulates with the acetabulum. By most measures the femur is one of the strongest bones in the body.
- 48. (b) Union Minister for Health and Family Welfare, Shri Mansukh Mandaviya has taken over charge as the Chairperson of Stop TB Partnership Board.
- 49. (a) Pulicat Lake: the second largest brackish water lake or lagoon in India which straddles the border of Andhra Pradesh and Tamil Nadu states on the Coromandal Coast in South India; Chilka Lake: a brackish water lagoon, spread over the Puri, Khurda and Ganjam districts of Odisha; Wular Lake: India's largest fresh water lake and one of the largest in Asia, located in Bandipora district in Jammu and Kashmir; and Sambhar Lake: India's largest inland salt lake, south west of Jaipur and north east of Ajmer along National Highway 8 in Rajasthan.
- 50. (d) Right to vote forms one of the constituents of political participation, the bedrock of democracy. It is a political right and encapsulates several other rights.
- 51. (d) If the number be x, then x - 31 = 75 - x $\Rightarrow 2x = 75 + 31 = 106$ $\Rightarrow x = 53$

52. (a) $\frac{2}{3} = 0.66$ $\frac{3}{5} = 0.6$ দ্যান্থ প্ৰায়ি $\frac{8}{11} = 0.73$ $\frac{11}{17} = 0.65$ \therefore Largest fraction = $\frac{8}{11}$ 53. (b) $2^{31} = (2^8)^4 \div 2 = (256)^4 \div 2$ $=\frac{.....6}{2}=.....3$ Clearly, the remainder will be 3 when divided by 5. দ্যান্ত আয়ে Illustration : $23 \div 5$ gives remainder = 3 $83 \div 5$ gives remainder = 3 54. (d) First number \times Second number = HCF \times LCM \Rightarrow 75 \times Second number = 15 \times 225 : Second number $=\frac{15 \times 225}{75}=45$ 55. (d) We find LCM of = 10, 16, 24দ্যান্দ্র প্রায়ের $\therefore \text{ LCM} = 2^2 \times 2^2 \times 3 \times 5$: Required number $= 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5$ = 360056. (c) $1 + \frac{1}{1 + \frac{2}{15 + 4}}$ 5 $=1+\frac{1}{1+\frac{2\times 5}{19}}=1+\frac{1}{\frac{19+10}{19}}$ দ্যা গুৰায়ে $=1+\frac{19}{29}=\frac{29+19}{29}=\frac{48}{29}$

57. (a)
$$? = \left(\frac{1}{2} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6}\right) \div \left(\frac{2}{5} - \frac{5}{9} + \frac{3}{5} - \frac{7}{18}\right)$$

 $= \left(\frac{30 - 15 + 12 - 10}{60}\right) \div \left(\frac{36 - 50 + 54 - 35}{90}\right)$
 $= \left(\frac{17}{60}\right) \div \left(\frac{5}{90}\right) = \frac{17}{60} \times 18$ Somework
 $= \frac{51}{10} = 5\frac{1}{10}$
58. (a) Expression
 $= \frac{16}{3} \div \frac{9}{11} \times \frac{1}{4} \left(10 + \frac{3}{5-1}\right)$
 $= \frac{16}{3} \times \frac{9}{11} \times \frac{1}{4} \left(10 + \frac{15}{4}\right)$
 $= \frac{16}{3} \times \frac{9}{11} \times \frac{1}{4} \left(\frac{40 + 15}{4}\right)$
 $= \frac{16}{3} \times \frac{9}{11} \times \frac{1}{4} \times \frac{55}{4} = 15$
59. (b) Revenue of fourth year
 $= ₹ (4 \times 82 + 4 \times 70 - 7 \times 75)$ lakhs
 $= ₹ (328 + 280 - 525)$ lakhs
 $= ₹ (328 + 280 - 525)$ lakhs
 $= ₹ 83$ lakhs
60. (b) $x + x + 1 + x + 2 + x + 3 + x + 4 + x + 5 + x + 6 + x + 7$
 $= 6.5 \times 8 = 52$
 $\Rightarrow 8x + 28 = 52$
 $\Rightarrow 8x + 2$

L

L

ঙি

र्भा भवाएष्ट्र

দ্যান্থি

দ্যান্দিন্দ্র প্রান্দি

ম্পি গুৰান্দি^জ

দ্যান্দ্র প্রান্দ্রি

 \times 6 = 12 cm.

θ);

$$\begin{array}{l} = \frac{14k}{7k} - \frac{2}{1} = 2:1 \\ \hline 3. (a) C.P. of article \\ = \frac{100}{100 - loss percent} \times S.P. \\ = \frac{100}{96}, 950 = ₹1000 \\ \hline 64. (b) C.P. of article = ₹ x (let) \\ S.P. of article = ₹ x (let) \\ Gain = \frac{4x}{3} - x = \frac{4x - 3x}{3} = ₹ \frac{x}{3} \\ \hline . \ Gain percent = \frac{x}{3} \times 100 \\ = \frac{100}{3} = 33\frac{1}{3}\% \\ \hline 65. (d) x = 7 - 4\sqrt{3} \\ \hline . \ \frac{1}{x} = \frac{1}{7 - 4\sqrt{3}} \\ = \frac{1(7 + 4\sqrt{3})}{(7 + 4\sqrt{3})(7 - 4\sqrt{3})} \\ = \frac{7 + 4\sqrt{3}}{49 - 48} = 7 + 4\sqrt{3} \\ \hline . \ x = \frac{1}{x} \\ = 7 - 4\sqrt{5} + 7 + 4\sqrt{5} = 14 \\ \hline 57. (d) \frac{a}{b} = \frac{c}{c} - \frac{1}{a} = 7^{-3} \\ \hline . \ x = -3 \\ \hline . \ (d) \frac{a}{b} = \frac{c}{c} - \frac{1}{a} = 3 \\ \hline . \ 289b^{2} + 3x^{2} + 4t^{2} \\ \hline \frac{289b^{2} + 3x^{2} + 4t^{2}}{2b^{2} + 3d^{2} + 4t^{2}} \\ \hline 9066767 \\ \hline 1100 \\$$

Γ

দ্য গুৰাজি

Let the side of the square be 2x. Then radius of incircle = a Radius of circum-circle

$$\sqrt{a^2 + a^2} = \sqrt{2}a$$

$$\therefore \text{ Ratio of area}$$

$$= \pi a^2 : \pi \left(\sqrt{2}a\right)^2 = a^2 : 2a^2 = 1:2$$

2a

 \cap

a

73. (d)



In the rhombus ABCD, AB = AD = 12 cm. $\angle BAD = 60^{\circ}$ $\therefore \angle ABD = \angle ADB = 60^{\circ}$ $\therefore BD = 12 \text{ cm.}$ because $\triangle ABD$ is an equilateral triangle.

74. (b) $a + \frac{1}{a} = \sqrt{3}$

On cubing both sides.

$$a^{3} + \frac{1}{a^{3}} + 3a \cdot \frac{1}{a} \left(a + \frac{1}{a}\right) = 3\sqrt{3}$$

$$\Rightarrow a^{3} + \frac{1}{a^{3}} + 3\sqrt{3} = 3\sqrt{3}$$

$$\Rightarrow a^{3} + \frac{1}{a^{3}} = 0 \qquad \dots(i)$$

$$\Rightarrow a^{6} - \frac{1}{a^{6}} + 2$$

$$= \left(a^{3}\right)^{2} - \left(\frac{1}{a^{3}}\right)^{2} + 2$$

$$= \left(a^{3} + \frac{1}{a^{3}}\right) \left(a^{3} - \frac{1}{a^{3}}\right) + 2 = 2$$

		atone takes the Preposition-for Here, for is the right usage. গ্র্যাচিত্র্সি		•	The soldiers laid towards the ene
83.	(d)	The structure of the sentence is as follows:			flag.
		Past Perfect (Had — told), would have			The best option
		+ Past Participle (attended)	90.	(d)	to cut one show
		Here, would have attended is the right usage.		•	It is bad to cut
84.	(d)	inexpressible			The best option
		ineffable (Adj.) : too good or beautiful to	91.	(b)	dissent (N.) : th
		describe in words; unutterable; indescribable.			that are different
		unintelligible (Adj.) : not clearly understood/			assent (N.) : t
		expressed			approval of som
		illegible (Adj.) : not able to read (handwriting)	92.	(d)	categorical (Adj
		inexplicable (Adj.) : incapable of being			evasive (Adj.)
		explained/accounted for			answers to a qu
		inexpressible (Adj.) : to strong to be put into	93.	(a)	friendship
		words winfeyered			hostility (N.)
85.	(b)	spying			feelings or beha
		espionage (N.) : the activity of secretly getting	94.	(c)	cavalry
		important political or military information;			cavalry (N.) : th
		spying.			on horses (in the
		hypnotism (N.) : the practice of putting a			army that uses
		person into an unconscious state			infantry (N.) :
		perception (N.) : becoming aware of			artillery (N.) :
		something via the senses			often moved on
		detente (N.) : the easing of tensions/strained			armoured (N.)
0.5	<i>(</i> 1),	relations (between nations)			(military vehicle
86.	(b)	indifference	95.	(b)	illiterate
		apathy (N.) : lack of interest, enthusiasm or		(-)	illiterate (Adi.)
07		concern; indifference; impassivity.			write
87.	(c)	Read between the lines : to look for or			uneducated (A
		discover a meaning in something that is not			education. havi
	_	openly stated.			education at sch
	•	Reading between the lines , I think she needs			ignorant (Ad
		money. আছিও সি			information
00		he best option is know what the writer thinks			oblivious (Adi.)
88.	(d)	A cut above somebody : better than	96.	(a)	look (Verb)
	-	someoody/sometning.	97.	(a)	kev (Noun)
	•	The heat option is nother superior to	98.	(d)	bleak (Adi.) :
		The dest option is rather superior to	00	(1)	

89. (b) show white flag : a sign that you accept defeat and wish to stop fighting

d down their guns and walked emy camp, carrying a white দ্যা গুৰায়ে

is surrendered

- rt : to interrupt one
- one short at a meeting. is to interrupt one.
- e fact of expressing opinions from those that are accepted. he official agreement to or nething.
- **i.**) : expressed clearly; definite. : not willing to give clear uestion; cagey.
 - : unfriendly or aggressive viour.
- দ্যান্ত প্ৰায়ি he part of the army that fought e past); the part of the modern armoured vehicles soldiers who fight on foot large, heavy guns which are wheels : protected by metal covers

s)

: not knowing how to read/

Adj.) : showing a lack of ing had little or no formal nool

j.) : lacking knowledge/

-) : not aware of something.
 - দ্যান্দৰ্গায়ে
- gloomy; hopeless
- 99. (d) has (Aux. V.)
- 100. (a) issue (Noun)

★ ★ ★

Γ