

SSC GD CONSTABLE - PRACTICE SET

Answers with Explanation

General Intelligence

1. (c) $\begin{matrix} & \longleftarrow & & \longleftarrow & & \longleftarrow & & \longleftarrow & & \longleftarrow \\ & P & & S & & Q & & R & & T \end{matrix}$
2. (b)
3. (a) $B \xrightarrow{+2} D$ Similarly, $J \xrightarrow{+2} L$
 $C \xrightarrow{+3} F$ $K \xrightarrow{+3} N$
 $D \xrightarrow{+4} H$ $L \xrightarrow{+4} P$
4. (c) Annie's rank from the bottom
 $= 35 - (6 + 7) + 1 = 23rd$
5. (a) $\begin{matrix} 19 & 23 & 32 & 48 & 73 & 109 \\ & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow \\ & +4 & +9 & +16 & +25 & +36 \\ & | & | & | & | & | \\ & 2^2 & 3^2 & 4^2 & 5^2 & 6^2 \end{matrix}$
6. (b)
7. (c)

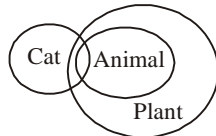
Letter	A	R	O	W	G	E	M
Code	F	O	S	E	T	H	R

MOWER will be written as RSEHO
8. (c)
9. (a) $S \xrightarrow{-3} P \xrightarrow{-3} M \xrightarrow{-3} J \xrightarrow{-3} G$
 $K \xrightarrow{+2} M \xrightarrow{+2} O \xrightarrow{+2} Q \xrightarrow{+2} S$
 $H \xrightarrow{-1} G \xrightarrow{-1} F \xrightarrow{-1} E \xrightarrow{-1} D$
10. (b) $20 \times (20 + 4) = 480$
Similarly,
 $25 \times (25 + 4) = 725$
11. (d) $F \xrightarrow{-2} D \xrightarrow{-2} B$
 $O \xrightarrow{-2} M \xrightarrow{-2} K$
 $J \xrightarrow{-2} H \xrightarrow{-2} F$
Similarly,
 $U \xrightarrow{-2} S \xrightarrow{-2} P$
12. (b)
13. (d) $\begin{matrix} & & \text{Neeta}^- & \leftrightarrow & \text{Sanket}^+ \\ & & | & & \\ \text{Aditi}^- & - & \text{Ankit}^+ & \leftrightarrow & \text{Kriti}^- \\ & & | & & \\ & & \text{Vritti}^- & - & \text{Mahi} \end{matrix}$
14. (b) 100 D (1 B 4) A 2 B (13 A 11) C 3 B (17 C 12)
After putting proper signs we get,
 $100 \div (1 \times 4) + 2 \times (13 + 11) - 3 \times (17 - 12)$
 $= 100 \div 4 + 48 - 15 = 25 + 48 - 15 = 58$
15. (d)
16. (b) $432 \Rightarrow 4 + 3 + 2 = 9$
 $333 \Rightarrow 3 + 3 + 3 = 9$
 $261 \Rightarrow 2 + 6 + 1 = 9$
But,
 $516 \Rightarrow 5 + 1 + 6 = 12$

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17. (d) 
18. (a) Let initial diagonal of a square = d_1
Increased diagonal of the square = $d_1 + 4$
According to question,
 $\frac{d_1^2}{2} + 56 = \frac{(d_1 + 4)^2}{2}$
 $\frac{d_1^2 + 8d_1 + 16 - d_1^2}{2} = 56 \Rightarrow 8(d_1 + 2) = 112 \Rightarrow d_1 = 12$
Required ratio = $\frac{256}{2} : \frac{144}{2} = 16:9$
19. (a)
20. (b)

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General Knowledges and General Awareness

1. (b) During the Non-Cooperation movement, C.R. Das was among the first to be arrested, followed by his wife Basanti Devi.
Over 30,000 people were arrested from all over the country. Only Gandhiji out of the top leadership remained out of jail.
2. (b) The contractile vacuoles are the structures which are present in the cells of the lower organisms. The vacuole plays an important role in excretion and osmoregulation. The wastes like the ammonia can be excreted through the vacuoles. The water and the other salts are also removed through this vacuoles in order to maintain the osmotic balance.
Contractile vacuoles are found in sponges (including amoebocytes, pinacocytes, and choanocytes), single-celled fungus, and hydra.
3. (a) Buland Darwaza or the "Gate of Magnificence", was built in 1601 A. D. by Akbar to commemorate his victory over Gujarat. It is the main entrance to the palace at Fatehpur Sikri, a town which is 43 km from Agra.
4. (a) The Indian Emergency was a 21-month period from 1975 to 1977 during which Prime Minister Indira Gandhi declared a state of emergency across the country.
President Fakhruddin Ali Ahmed proclaimed an emergency under Article 352 of the Constitution in response to widespread "internal disturbance" on June 25, 1975, and it lasted until March 21, 1977.
5. (b)
6. (d) Exotic Species introduced to new environments often reset the ecological condition in that new habitat.
It threatens the species that exist there.
Hence they are often termed invasive species.
These species compete with local native species for food

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and cause disease in them.

Lakes and islands are vulnerable to extinction threats from introduced species.

7. (b) The Saltoro Mountains are a subrange of the Karakoram Range.

They are located in the southeast Karakoram on the southwest side of the Siachen Glacier, one of the two longest glaciers outside the polar regions.

8. (a) Each ring symbolizes one of the five continents competing at the Olympics: Africa (yellow), The Americas (red), Asia (green), Europe (black) and Oceania (blue).

9. (b) India gained control of Goa, Daman and Diu from Portugal in 1961.

Pratapsingh Rane was the first chief minister of Goa from 30 May 1987 to 9 January 1990.

Gopal Singh was the first governor of Goa from 30 May 1987 to 17 July 1989.

Amendment	Details
12th Constitution Amendment	Under this amendment, Goa, Daman, and Diu are included as the eighth Union territory of India.
56th Constitution Amendment	Under this amendment, on 30 May 1987, Goa was given the status of a separate state. Goa became the 25th state of India.

10. (d) If n is the energy level index for an atom, then for the M shell, n is equal to 3.

Shell given = M , orbit number = 3.

The maximum number of electrons present in a shell is given by the formula $2n^2$.

Therefore, $2 \times 3^2 = 18$

11. (c) It is also known as Torana fort and is situated in the Pune district.

It is regarded as the first pillar of the Maratha Empire.

This fort was taken over by Shivaji from his uncle Shambaji Mohite.

12. (c) Zika fever is caused by a virus transmitted primarily by Aedes mosquitoes.

Zika virus is primarily transmitted by the bite of an infected mosquito from the Aedes genus, mainly Aedes aegypti, in tropical and subtropical regions.

13. (b) Jhelum river originates in spring at Verinag in the Pir Panjal range of the Himalayas.

It flows from the Kashmir valley and through the Wular lake.

It is the only Himalayan river which meanders in its youth stage.

It is one of the important tributaries of the Indus river.

It joins the Chenab river near Jhang in Pakistan.

14. (c) The treaty of Bassein was signed on 31st December 1802. It was signed between East India Company and Bajji Rao II. Bajji Rao II was the Maratha Peshwa of Pune, and the treaty was signed after the battle of Poona.

This treaty led to the decisive victory of the British and it eventually led to the domination of the East India Company and the dissolution of Maratha power.

15. (b) Department of Economic Affairs under the Ministry of Finance has been entrusted with the responsibility of preparation and presentation of the Union Budget to Parliament.

ACHIEVERS In Focus It formulates and monitors the country's economic policies and programs having a bearing on domestic and international aspects of economic management.

16. (c) Lieutenant General Sadhna Saxena Nair made history by becoming the first woman to be appointed as the Director General of Medical Services in the Indian Armed Forces. She was also the first woman to serve as the Director of General Hospital Services (Armed Forces).

17. (d) India's first multinational air exercise, 'Tarang Shakti 2024', hosted in Sular, Tamil Nadu. The first phase of the exercise held from 6–14 August, 2024, and the second phase was from 29 August-14 September, 2024. The exercise included participation from around 30 countries, including Germany, France, Spain, the U.S., Australia and UAE. Out of 30, ten countries joined the exercise with their fighter aircraft. The exercise featured a variety of aircraft, including the Rafale, F-18, Tejas, Mirage 2000 and MiG-29 aircraft.

18. (a) Indian shooter Swapnil Kusale won the bronze medal in the 50m rifle 3 positions event at the Paris Olympics. His performance was marked by a total of 451.4 points, securing him the third spot on the podium.

19. (c) Kashmir City was awarded the prestigious Certificate of World Craft City by the World Crafts Council International in a ceremony held in Srinagar, Jammu and Kashmir. This recognition highlights Kashmir's rich cultural heritage and craftsmanship, making it the fourth Indian city to receive this honour, following Jaipur, Mamallapuram, and Mysore.

20. (a) India has announced the selection of Group Captain Shubhanshu Shukla and Group Captain Prasanth Balakrishnan Nair for the Axiom-4 mission to the International Space Station (ISS). Group Captain Shubhanshu Shukla will serve as the primary mission pilot, while Group Captain Prasanth Balakrishnan Nair will act as the backup. This mission marks a significant step in strengthening human spaceflight cooperation between ISRO and NASA and advancing India's human space program.

Elementary Mathematics

1. (a) Let one number = $19a$
Second number = $19b$
Where a and b are co-prime numbers which HCF is 1.
According to question,
 $19a + 19b = 342$
 $\Rightarrow a + b = 18$
 $\Rightarrow (1, 17), (5, 13), (7, 11)$
Required pair is 3.

2. (d) Principal = $\frac{2541 \times 100}{5.5 \times 6} = ₹7700$

Now,

$$SI = 7700 \times \frac{57 \times 17}{7 \times 3 \times 100} = ₹3553$$

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$$\text{Amount} = 7700 + 3553 = ₹11253$$

3. (d) Let side of triangular park be a

$$S = \frac{(18+80+82)}{2} = 90$$

The area of a triangular field

$$= \sqrt{[90(90-18)(90-80)(90-82)]} = \sqrt{90 \times 72 \times 10 \times 8}$$

$$= 720\text{m}^2$$

According to question,

$$\left(\frac{\sqrt{3}}{4}\right)a^2 = 5\sqrt{3} \times 720$$

$$a = 120\text{m}$$

∴ Side of the triangular park = 120 m

4. (a) $(2m + 7w)14 = (3m + 8w)11$

$$\Rightarrow 28m + 98w = 33m + 88w$$

$$\Rightarrow 10w = 5m$$

$$2w = 1m$$

$$2m + 7w = 11w$$

$$5m + 4w = 14w$$

$$\text{Required time} = \frac{11 \times 14}{14} = 11 \text{ days}$$

5. (d)

6. (c)

7. (a) Let usual speed of train be x km/hr

$$\frac{360}{x} - \frac{360}{x+10} = 3$$

$$\Rightarrow \frac{360 \times 10}{x(x+10)} = 3$$

$$\Rightarrow 1200 = x(x+10) \Rightarrow x = 30$$

∴ Usual speed of the train = 30 km/hr

Increased speed is 40 km/hr

8. (a) $\left[\frac{5}{7} \text{ of } 1\frac{3}{8} - \frac{5}{8} \text{ of } \frac{6}{7}\right] \div \left[1 - \frac{1}{7} \times \left(\frac{5}{12} + \frac{1}{3}\right)\right] \times \frac{1}{\frac{1}{7} + \frac{1}{9}}$

$$= \left[\frac{5}{7} \times \frac{11}{8} - \frac{5}{8} \times \frac{6}{7}\right] \div \left[1 - \frac{1}{7} \times \frac{3}{4}\right] \times \frac{1}{8}$$

$$= \frac{25}{56} \times \frac{28}{25} \times \frac{1}{8} = \frac{1}{16}$$

9. (c) Let radius of cone A = r_1 and

Radius of cone B = r_2

If slant height of A is ℓ then slant height of B is 2ℓ

Now,

$$\pi r_1 \ell = (\pi r_2 \times 2\ell) \times 2$$

$$\Rightarrow \pi r_1 \ell = 4\pi r_2 \ell$$

$$\Rightarrow \frac{r_1}{r_2} = \frac{4}{1}$$

10. (c) Let the total number of the person initially in the group is x

Now, the sum of the height of all person is 155.5x cm

Sum of the height of 4 persons which leave the group

$(154.6 + 158.4 + 152.2 + 153.8)$ cm = 619 cm

Now, the sum of the height of remaining persons of the group is

$$= (155.5x - 619) \text{ cm}$$

The remaining number of the person in the group is

$$= (x - 4)$$

$$\text{New average of the group} = 155.5 + 0.15$$

$$= 155.65 \text{ cm}$$

According to question

$$155.65(x - 4) = 155.5x - 619$$

$$\Rightarrow 155.65x - 622.60 = 155.5x - 619$$

$$\Rightarrow 0.15x = 3.60$$

$$\Rightarrow x = 24$$

11. (d) $\frac{x+4}{x+12} = \frac{x-1}{x+5}$

$$\Rightarrow (x+4) \times (x+5) = (x-1) \times (x+12)$$

$$\Rightarrow x^2 - x + 12x - 12 = x^2 + 5x + 4x + 20$$

$$\Rightarrow 2x = 32$$

$$\Rightarrow x = 16$$

x, y is quantity so the mean proportion = \sqrt{xy}

Mean proportional between 16 and $(16 - 7)$

$$= \sqrt{16 \times (16 - 7)} = 4 \times 3 = 12$$

12. (b) Pipe A (Filling) $\rightarrow 10$ Total capacity
Pipe B (Empty) $\rightarrow 12$ $\frac{60 \text{ (litre)}}{60 \text{ (litre)}}$ 6 litre per min
5 litre per min

A $\rightarrow 1 \text{ min} \rightarrow 6 \text{ litre (Fill)}$

B $\rightarrow 1 \text{ min} \rightarrow 5 \text{ litre (Empty)}$

$\frac{2 \text{ min} \rightarrow 1 \text{ litre (Fill)}}{\times 54}$

$\frac{108 \text{ min} \rightarrow 54 \text{ litre (Fill)}}{\text{(Pipe A)} \rightarrow 1 \text{ min} \rightarrow 6 \text{ litre (Fill)}}$

$\frac{109 \text{ min} \quad 60 \text{ litre}}$

13. (a) Range = $5 - 1 = 4$

Data in ascending order

1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 4, 5, 5

Median = 2

Mode = 2

$$\text{Mean} = \frac{4 + 2 + 2}{3} = 2\frac{2}{3}$$

14. (d) Let her income be Rs. 100

Saving = 30

Expenditure = $100 - 30 = 70$

$$\text{New saving} = 30 \times \frac{130}{100} = 39$$

$$\text{New expenditure} = 70 \times \frac{125}{100} = 87.5$$

$$\text{New income} = 87.5 + 39 = 126.5$$

$$\text{Required percent} = \frac{126.5 - 100}{100} \times 100 = 26.5\%$$

15. (d) Required ratio = $\frac{2x \times \frac{2}{9} + 5x \times \frac{4}{9}}{2x \times \frac{7}{9} + 5x \times \frac{5}{9}} = \frac{24}{39} = \frac{8}{13}$

16. (c) Interest rate = $\frac{3630 - 3300}{3300} \times 100 = 10\%$

$$\text{CI for the first year} = 3300 \times \frac{100}{110} = 3000$$

Let Principal be P then
10% of P = 3000

$$P \times \frac{1}{10} = 3000$$

$$\text{₹ } P = 30,000$$

17. (a) Let the speed of stream be "s" km/h and the speed of boat be "b" km/h
According to question :

$$\frac{36}{(b+s)} + \frac{16}{(b-s)} = 10 \dots\dots (a)$$

$$\frac{3}{(b+s)} + \frac{1.2}{(b-s)} = \frac{4}{5} \dots\dots (b)$$

Solving equation (a) and (b), we get

$$s = 1 \text{ and } b = 5$$

$$\therefore \text{Upstream speed} = (5 - 1) \text{ km/hr} = 4 \text{ km/hr}$$

18. (c) A : B = 3 : 4
B : C = 2 : 1
C : D = 3 : 5
 \therefore A : B : C : D = 9 : 12 : 6 : 10

$$\text{Share of B} = \frac{12}{37} \times 4107 = 1332$$

19. (d) $[0.08 \div 1.2 \text{ of } (3.4 - 2.6) \times 0.8 \text{ of } 3.2]$ of $\frac{9}{16}$

$$= \left[\frac{8}{100} \div 1.2 \text{ of } \frac{8}{10} \times \frac{8}{10} \text{ of } 3.2 \right] \text{ of } \frac{9}{16}$$

$$= \left[\frac{8}{100} \div \frac{96}{100} \times \frac{256}{100} \right] \text{ of } \frac{9}{16}$$

$$= \frac{64}{300} \times \frac{9}{16} = 0.12$$

20. (a)

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English

1. (b) Let's look at the meaning of the given idiom/phrase
The phrase 'lend an ear' means to listen attentively or carefully while discussing a problem'.
Example : The NGO lent an ear to solve the problem of sanitation of the slum dwellers.
Hence, the only possible answer is option 2 'pay attention to' which exactly resembles the meaning of the given idiom/phrase.
2. (b) Pragmatic means 'dealing with problems in a practical way rather than by following ideas or principles'.
Example : Vaccine Maitri is a pragmatic reason to the pandemic.
From the above explanation, it can be concluded that 'Pragmatic' is the correct word to substitute for the given description.
3. (a) Among the given Options the incorrectly spelt word is 'Wisedom'.
Its correct spelling is 'Wisdom'
It means the ability to make sensible decisions and judgements because of your knowledge or experience.
Example : I don't see the wisdom of this plan [I do not think it is a good idea].
4. (c) Colossal means 'extremely large'.
Example : Companies today are highly competitive and

welcome the colossal saving of time and money by introducing new methods.

Marked option 'Small' means not large in size number, amount etc.

Example : Small businesses are the lifeblood of the economy.

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It is clear that Colossal and 'Small' are opposite in meaning.

5. (b) Inflation means 'a general rise in prices the rate at which prices rise'.

Example : The inadequacy of monetary policy to address food-price driven inflation has been recently flagged.

From the above explanation, it can be concluded that 'inflation' is the correct word to substitute for the given description.

6. (a) The tense here should be past tense, as we are talking about an event that happened in the past.

Among the given option 'was' is in the past tense and it is the only correct option.

Hence, the correct answer is option 1.

Complete Sentence : Jenny was able to leave the hospital within six hours after he fell ill seriously.

7. (c) The given sentence is grammatically incorrect.

Here, 'to sell their land' should be used instead of 'to sold their land.'

The pronoun 'his' should be used because it agrees with the main subject i.e., 'Raman'

We know that after 'to' infinitive 'the base form of verb is used'. So 'sell' should be used in place of 'sold'

8. (d) Get ready to do something difficult. **ACHIEVERS In Focus**

9. (d) Integrate is a verb which means to mix with and join society or a group of people, often changing to suit their way of life, habits, and customs.

The meaning of the given options are as follows:

Distribute - to give something out to several people or to spread or supply something.

Disburse - to pay out money usually from an amount that has been collected for a particular purpose.

Separate - existing or happening independently or in a different physical space.

Assimilate - to become part of group, country, society etc, or to make someone or something become part of a group, country, society etc.

From the above meanings it is evident that Assimilate is the correct synonym for the word Integrate.

10. (b) The correct spelling is genuine.

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11. (d) Let us see the meaning of Relevant :

Revelation : closely connected appropriate to what is being done or considered applicable.

Example : What small companies need is relevant advice.

Let us see the meanings of the given options:

Ineligible : legally or officially unable to be considered for a position or benefit.

Inhabitable : suitable to live in; habitable.

Inevitable : certain to happen; unavoidable.

Inapplicable : not relevant or appropriate.

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From the meanings of the given words, we can say that the word 'inapplicable' is the opposite of the meaning of the word 'Relevant'.

Hence, the correct answer is 'Inapplicable'.

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12. (a) The given sentence is a tag question. We use tag questions to ask for confirmation.

A positive statement takes a negative tag and a negative sentence takes a positive tag.

The given sentence is a positive statement and therefore, the auxiliary verb (am) from the positive statement is repeated in the tag and changed to negative (aren't I).

Therefore, the negative tag 'aren't I' should be used in place of 'am'.

13. (a) Manage expenses with just enough funds.

14. (a) Let's understand the meaning of the other options:

Galaxy : a collection of star systems

Constellation: A configuration of stars as seen from the earth

Group: a small number (up to about fifty) of galaxies that are near each other

15. (a) The present perfect tense is a verb tense that shows an action or state that either occurred at an indefinite time in the past or began in the past and continued to the present time.

The structure is given below:

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Subject + has/have + V_3 + object (active voice)

Object + has/have + been + V_3 + subject (passive voice)

Example :

He has played some matches for the Indian Cricket team. (active voice)

Some matches have been played by him for the Indian Cricket team. (passive voice)

In the given sentence we need to follow the structure in the active voice form.

Hence, according to the given above, 'have decided' is the most appropriate choice of the verb form as the subject (Harry and Meghan) is plural.

16. (c) The given sentence is talking about the obsession of parents.

The use of the phrase 'their' in the sentence indicates belonging to or associated with the people or things previously mentioned or easily identified.

Therefore, the most appropriate word to be filled in the blank is 'about'.

'About' means on the subject of; concerning a particular subject.

Example : The two women jawed together all day about their children.

17. (c) The given sentence is talking about parents giving some kind of importance to their children.

The use of the word 'importance' in the sentence indicates the state or fact of being of great significance or value.

Therefore, the most appropriate word to be filled in the blank is 'significantly'

Significantly means in a sufficiently great or important way as to be worthy of attention.

Example : Health problems can be significantly reduced by careful diet.

18. (c) The given sentence is talking about parents pushing and goading their children to study hard and score.

The use of the word 'score' in the sentence indicates a rating or grade, such as a mark achieved in a test.

Therefore, the most appropriate word to be filled in the blank is 'as high as'.

'As high as' means great, or greater than normal in quantity size, or intensity.

Example : Interest rates are twice as high as those of our competitors.

19. (c) The given sentence is talking about some kind of condition during the climb.

The use of the word 'successfully' in the sentence indicates in a way that accomplishes a desired aim or result.

Therefore, the most appropriate word to be filled in the blank is 'performance'.

'Performance' means a task or operation seen in terms of how successfully it is performed.

Example : The audience was clearly enchanted by her performance.

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20. (a) The given sentence is talking about Einstein.

The use of the word 'was' in the sentence indicates a first and third-person singular past or 'be'.

Therefore, the most appropriate word to be filled in the blank is 'himself'.

'Himself' is used for emphasizing that a particular man, boy, or male animal does something without help from anyone else.

Example : Napoleon himself was once a crying baby.

