

STAFF SELECTION COMMISSION

CONSTABLE (GD) IN CAPFS, SSF, ASSAM RIFLES & NCB

SOLVED PAPER

(27th January 2023: Shift-3)

Time Allotted- 1 hours

Max marks- 160

Important Instructions:-

- This paper contains 80 questions which are divided into 4 sections. Each section contains 20 questions.
- General Intelligence & Reasoning
- General Knowledge & General Awareness
- Elementary Mathematics
- English
- There will be 2 marks for each correct answer and also there will be negative marking of 0.5 marks for each wrong answer.
- Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General Intelligence & Reasoning

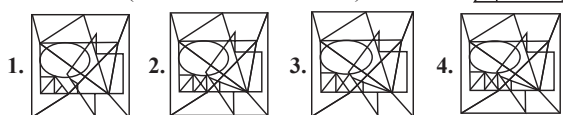
1. In a certain code language, 'OXFORD' is written as 'OODFRX' and 'KILLING' is written as 'IIGKLLN'. How will 'SOLUTION' be written as in that language?

1. UOOITSNL 2. LNSTIOOU
3. IOOUSTLN 4. IOOULNST

2. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

- 9 : 27 :: 12 : 48 :: 6 : ?
1. 18 2. 20 3. 12 4. 22

3. Select the option figure in which the given figure is embedded (rotation is NOT allowed).



4. Select the figure from among the given options that can replace the question mark (?) in the following series.

- $\frac{1}{402}, \frac{1}{335}, ?, \frac{1}{201}, \frac{1}{134}$
1. $\frac{1}{289}$ 2. $\frac{1}{268}$ 3. $\frac{1}{259}$ 4. $\frac{1}{282}$

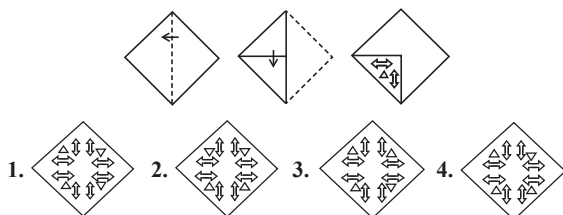
5. Which option represents the correct order of the given words as they would appear in the English dictionary?

- 1 Marching 2 Marble 3 Matching 4 Maker 5 Major
1. 5,2,3,1,4 2. 5,4,3,2,1 3. 5,3,2,1,4 4. 5,4,2,1,3

6. If '-' means 'division', '+' means 'multiplication', 'x' means 'addition' and '÷' means 'subtraction', which of the following equations is correct?

1. $10 - 2 + 3 \div 9 \times 2 = 8$ 2. $10 + 3 - 2 \times 9 \div 2 = 21$
3. $20 + 6 - 4 \times 9 \div 6 = 32$ 4. $20 \div 9 \times 9 - 4 + 6 = 33$

7. A paper is folded and cut as shown below. How will it appear when folded?



8. Which letter cluster will replace the question mark (?) to complete the given series?

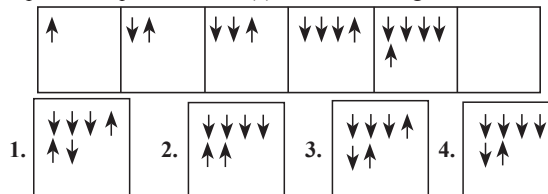
AEHJ, DHKM, ?, JNQS, MQTV

1. GKNP 2. GJLM 3. GIKM 4. FJMO

9. In a code language, 'dark colors' is coded as 'yu nu', 'days are bright' is coded as 'wu tu ku', 'nights are dark' is coded as 'ku nu pu', 'paint bright' is coded as 'wu ru'. What is the code for the word 'colors'?

1. nu 2. ku 3. tu 4. yu

10. Select the figure from among the given options that can replace the question mark (?) in the following series.



11. Select the option that is related to the third word in the same way as the second word is related to the first word.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

- Annual : Semi-annual :: Monthly : ?
1. Fortnightly 2. Yearly 3. Daily 4. Weekly

12. Which of the following letter-clusters will replace the question mark (?) in the given series?

AETO, CGRM, ?, GKNI, IMLG

1. EHPJ 2. EIPK 3. DIQK 4. EJQK

13. L is the husband of O. Q is the mother-in-law of O. P is the sister of L. P is married to R. R has one son T. How is Q related to T?

1. Sister 2. Mother
3. Mother's mother 4. Father's mother

14. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

AFHO : CHIP :: QDXM : SFYN :: ADGH : ?

1. CFHI 2. CFJR 3. CHIF 4. BGIP

15. Which two signs should be interchanged to make the below equation mathematically correct?

$104 \div 13 + 78 - 3 \times 2 = 143$

1. ÷ and - 2. × and - 3. ÷ and × 4. + and ×

16. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
 All flowers are leaves.
 All leaves are stems.
 Some stems are roots.
Conclusions:
 I. Some stems are leaves.
 II. Some flowers are roots.
 III. Some leaves are flowers.
 1. Only conclusion II follows
 2. Only conclusions II and III follow
 3. Only conclusions I and III follow
 4. All conclusions follow
17. Select the number from among the given options that can replace the question mark (?) in the following series.
 53, 56, 50, ?, 47, 62
 1. 48 2. 59 3. 55 4. 44
18. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.
-
1. $\sqrt{2} \partial \partial M \square \rho \tau \cup$ 2. $\sqrt{2} \partial \partial M \square \rho \tau \cup$
 3. $\sqrt{2} \partial \partial M C \rho \tau \cup$ 4. $\sqrt{2} \partial \partial M C \rho \tau \cup$
19. Seven people are sitting in a movie theatre watching a movie facing North. D is sitting towards right of A but towards left of G. Y is sitting towards right of C and towards left of A. Z is sitting towards left of F and is second from the right end. Who is sitting second from the left end?
 1. C 2. Z 3. A 4. Y
20. There are 8 people sitting in a circle facing the centre: A, B, C, D, E, F, G and H. A is sitting to the immediate right of G and immediate left of E. Second to the right of E is C. D is sitting to the immediate left of C. F is sitting to the immediate left of G. H is the immediate neighbour of F and B. Who is sitting to the immediate right of B?
 1. D 2. A 3. C 4. H

General Knowledge & General Awareness

21. What type of unemployment will be generated by the agricultural sector in case when it employs additional labourers only for some time of the year like the harvest season?
 1. Disguised unemployment 2. Cyclic unemployment
 3. Seasonal unemployment 4. Structural unemployment
22. A _____ is a deposit account opted for by many who wish to save a certain part of their earnings.
 1. share 2. savings account
 3. loan 4. debenture
23. Export of goods enhances _____.
 1. expenses 2. local debt
 3. nation's loan 4. foreign exchange
24. Who became the Member of Legislative Assembly from Dhamnagar constituency in Odisha, India in November 2022?
 1. Naveen Patnaik 2. Bishnu Sethi
 3. Suryabanshi Suraj 4. Chandrakant Jadhav
25. India's first-ever SAI Centre of Excellence for mountain terrain biking and bicycle motocross is to be set up in _____.
 1. Shimla 2. Srinagar
 3. Nainital 4. Ladakh
26. Sangeet Natak Akademi Awards (Akademi Puraskar) carries _____.
 1. ₹ 1,00,000 (Rupees one lakh) along with a Tamrapatra and Angavastram
 2. ₹ 50,000 along with a Tamrapatra and Angavastram
 3. ₹ 50,000 (Rupees Fifty thousand)
 4. ₹ 3,00,000 (Rupees three lakh)
27. The State Government under Consumer Protection Act 2019, by notification, shall establish a _____, in each district of the State.
 1. Street Consumer Disputes Redressal Commission
 2. National Consumer Disputes Redressal Commission
 3. District Consumer Disputes Redressal Commission
 4. Local Consumer Disputes Redressal Commission
28. The _____ was set up in 1963 with responsibilities in the field of seed production, particularly the foundation stock of HYV seeds.
 1. New Cooperative Development
 2. National Seeds Corporation
 3. National Farm Corporation
 4. Agricultural seeds corporation
29. Which of the following former Chief Economic Advisors has been appointed as the full time member of National Institution for Transforming India (NITI) Aayog in November 2022?
 1. Sreedharan Krishnakumari Satheesh
 2. Vijay Kumar Saraswat
 3. Rajesh Sharma
 4. Arvind Virmani
30. Why did Mohammed Ali Jinnah, Madan Mohan Malaviya and Mazhar Ul Haq resign from the Imperial Legislative Council?
 1. to protest against the Rowlatt Act
 2. to support the Simon commission
 3. to support the Rowlatt Act
 4. to protest against the Simon commission
31. Foods with starch in them will turn blue- black when they come in contact with _____.
 1. iodine 2. blue litmus 3. salt 4. red litmus
32. Kati Bihu, one of the three Bihu festivals of Assam, is celebrated in the month of _____.
 1. April 2. October 3. January 4. December
33. The members of a Vidhan Parishad are elected for a term of _____ years.
 1. 6 2. 4 3. 5 4. 7
34. What are the volcanoes which have not erupted for a very long time but might erupt in future called?
 1. Extinct volcanoes 2. Active volcanoes
 3. Dormant volcanoes 4. Shield volcanoes
35. Which of the following was the capital of Vajji Mahajanapada?
 1. Gaya 2. Vaishali 3. Anga 4. Pataliputra
36. The 42nd Constitutional Amendment was made according to the recommendation of _____, set up in 1976.
 1. Abhijeet Sen Committee 2. Ajit Kumar Committee
 3. Abid Hussain Committee 4. Swaran Singh Committee
37. In a football match, the length of a pitch must be between _____ and 120m.
 1. 105 m 2. 110 m 3. 100 m 4. 90 m
38. The Ghodmodini dance is a folk dance form associated with _____.
 1. Bihar 2. Haryana 3. Goa 4. Gujarat
39. Sri Lanka is separated from India by the _____.
 1. Isthmus of Kra 2. Strait of Gibraltar
 3. Palk strait 4. Isthmus of Panama

40. Which two gases are released when lead nitrate is heated?
1. Oxygen and nitrogen oxide
 2. Nitrogen dioxide and oxygen
 3. Carbon monoxide and oxygen
 4. Hydrogen and nitrogen dioxide

Elementary Mathematics

41. Rajneesh deposited ₹ 3,00,000 in a bank for three years. What will be the final amount if the rate of interest is 8% compounded annually?
1. ₹ 3,77,913.60
 2. ₹ 3,70,000.00
 3. ₹ 3,57,931.60
 4. ₹ 3,50,000.00
42. Two trains running in opposite directions cross a man standing on the platform in 30 sec and 15 sec respectively and they cross each other in 25 sec. The ratio of their speeds is:
1. 2 : 1
 2. 3 : 7
 3. 5 : 3
 4. 3 : 2
43. Find the value of $\frac{\frac{1}{6} \div \frac{1}{6} \times \frac{1}{6}}{\frac{1}{6} \div \frac{1}{6} \text{ of } \frac{1}{6}} - \frac{1}{36}$.
1. $\frac{1}{6}$
 2. 0
 3. $\frac{1}{36}$
 4. 1
44. A melon in the shape of a sphere having the radius of 9 cm is cut into two equal hemispheres. Find the volume (in cm³, rounded off to 2 decimal places) of each half. Taken $\pi = \frac{22}{7}$
1. 1,527.43 cm³
 2. 1,547.34 cm³
 3. 1,472.53 cm³
 4. 1,372.35 cm³
45. The average temperature of a certain city on different days is as follows:
Monday, Tuesday, Wednesday and Thursday = 42°
Tuesday, Wednesday, Thursday and Friday = 44°
What is the temperature on Friday if the ratio of the temperature on Monday and Friday is 3 : 5?
1. 42°
 2. 44°
 3. 20°
 4. 15°
46. Three men and two women can finish a work in $\frac{120}{13}$ days. Two men and three women can finish the same in 10 days. One man and one woman start the work and after 12 days, 1 more man joins the work. After three more days, it is directed to engage more men or women to finish the work the next day. How many minimum more men or women must be engaged to complete the work as per direction?
1. Either 15 women or 9 men
 2. 5 men and 10 women
 3. Either 14 women or 10 men
 4. 7 men and 7 women
47. A lady goes from home to office at a speed of 40 km/h, and returns back at a speed of 70 km/h. What is her average speed during the journey?
1. $45\frac{1}{11}$ km/h
 2. $50\frac{10}{11}$ km/h
 3. $40\frac{8}{11}$ km/h
 4. $55\frac{7}{11}$ km/h
48. Find the third proportional to 16 and 320.
1. 6400
 2. 3200
 3. 8000
 4. 2100
49. The price of a commodity increases by 10% from 2020 to 2021 and it again increases by 15% from 2021 to 2022. The difference in the prices in 2020 and 2022 is ₹ 35. What is the price of the commodity (in ₹) in 2021 (rounded up to one decimal place)?
1. 145.3
 2. 154.3
 3. 314.5
 4. 134.5

50. An electric geyser is sold at ₹ 7,100 after reducing ₹ 244 in addition to two successive discounts of 15% and 4% on the marked price. Find the marked price (in Rs.) of the geyser.
1. 9,000
 2. 8,800
 3. 8,500
 4. 8,200
51. In a discount scheme, there is 50% discount on the marked price of ₹ 500, but at the end it is sold for ₹ 200. What additional discount did the customer get?
1. 30%
 2. 22%
 3. 20%
 4. 25%
52. An article is marked at ₹ 7,500 and available at a discount of 12%. The shopkeeper gives another off-season discount to the buyer and sell the article for ₹ 5,400. Find the off-season discount. (Correct to two decimals places.)
1. 18.18%
 2. 19.53%
 3. 18.95%
 4. 19.63%
53. A dishonest dealer professes to sell his goods at the cost price but uses a false weight of 950 g instead of 1 kg. What is his gain percentage?
1. $5\frac{3}{19}\%$
 2. 5%
 3. $5\frac{1}{19}\%$
 4. $5\frac{5}{19}\%$
54. The third proportional to $a^3 + b^3$ and $a^2 + ab + b^2$, when $a = 2$ and $b = 3$ is: (correct to 2 decimal places)
1. 8.56
 2. 5.83
 3. 10
 4. 10.31
55. The material of a solid right circular cylinder is converted into the shape of a solid cone of equal radius. If the height of the cylinder is 8.8 cm, then the height of the cone is:
1. 8.8 cm
 2. 35.2 cm
 3. 17.6 cm
 4. 26.4 cm
56. From 2011 to 2014, a town's population is increasing at the rate of 2% annually. If its population was 13,265 in 2014, then what would have been its population (Approximately) in 2011?
1. 12500
 2. 12275
 3. 12250
 4. 12000
57. A stock of food is enough for 315 men for 48 days. For how many days the same stock of food is enough, if 45 more men join?
1. 46
 2. 42
 3. 48
 4. 44
58. If the number 40 is increased by 40%, then what will be the actual increase?
1. 42
 2. 28
 3. 56
 4. 16
59. Find the square of the sum of the digits of the smallest number divisible by both 18 and 24.
1. 64
 2. 121
 3. 81
 4. 100
60. A man can row upstream at 12 km/h and downstream at 20 km/h. Find the man's rowing speed in still water, and the rate of current.
1. 16 km/h and 4 km/h
 2. 32 km/h and 8 km/h
 3. 32 km/h and 4 km/h
 4. 16 km/h and 8 km/h

English

61. Select the most appropriate option that can substitute the underlined segment in the given sentence.
The road which connected for two villages is now deserted.
1. that connected for
 2. will connect the
 3. that connected the
 4. which connects of
62. Select the most appropriate option to fill in the blank with the synonym of the underlined word.
The casual nature of the student destroyed his studies and _____ his future.
1. ruined
 2. skyrocketed
 3. rained
 4. traced
63. Select the most appropriate ANTONYM of the given word.
Succinct
1. Lengthy
 2. Empty
 3. Hasty
 4. Hearty
64. Select the most appropriate ANTONYM of the given word.
Cluster
1. Consort
 2. Group
 3. Individual
 4. Special

65. Select the most appropriate synonym of the given word.
Despise
1. Elevate 2. Hate 3. Eradicate 4. Revere
66. Select the correct idiom that can substitute the italicised group of words in the given sentence.
Will humanity overcome the greed of leaders all around the world? This is the *most important issue to be discussed* today.
1. burn the candle at both ends 2. burning question
3. burn a hole in the pocket 4. burn one's fingers
67. Select the most appropriate homonym to fill in the blank.
The construction _____ was far from his home.
1. cite 2. sight 3. site 4. cyte
68. Select the sentence that contains the MISSPELT word from the given options.
1. Both of them were best friends, now they are at daggers drawn.
2. As if to fill the small hours of that cold night with warm thoughts, I picked up the book and started browsing.
3. Without the slightest warning, something new breaks into your life that you may be completely unconscious of.
4. The gist of the quote was that all reasonable men adopt themselves to the world.
69. Select the most appropriate spelling that can correctly substitute the misspelt underlined segment in the given sentence.
He acquiesced to the plans his parents had made for him.
1. acquiesced 2. acquiised 3. acquissed 4. aquissed
70. Select the most appropriate meaning of the given idiom.
The pot calling the kettle black
1. Preparing the tea without boiling water
2. People are guilty of the very fault they identify in others
3. Speaking strangely in an official meeting
4. Making things ready quickly
71. Select the most appropriate set of words to complete the sentence.
I will not spend a single _____ on a bottle of perfume until I know that I love its _____.
1. cent; scent 2. sent; cent 3. scent; cent 4. scent; sent
72. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully.
Wear rubber gloves while chopping chillies (as it could irritate the skin).
1. as these could irritate the skin
2. as they can irritate the skin
3. as it would irritate the skin
4. as these would irritate the skin
73. Select the most appropriate option that can substitute the underlined segment in the given sentence.
He very pleased that you have passed with distinction.
1. He is very pleased 2. He will very please
3. He is very please 4. He has very pleased
74. Parts of the following sentence have been underlined and given as options. Select the option that contains an error.
We must acknowledge the fact that we had been visited Paris many times with friends.
1. must 2. had been
3. acknowledge 4. visited
75. Select the most appropriate synonym of the underlined word.
He was curious to know his result.
1. Ingenious 2. Inquisitive
3. Indifferent 4. Indiscriminate
- Comprehension:**
In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
I think that perhaps the sky is a (1) _____ sea of fresh water and we, (2) _____ walking under it, walk on top of it; perhaps we see everything (3) _____ down and the earth is a (4) _____ of sky, so that when we die, we fall and (5) _____ into the sky.
76. Select the most appropriate option to fill in blank number 1.
1. minty 2. vigilant 3. huge 4. allotted
77. Select the most appropriate option to fill in blank number 2.
1. primarily 2. stubbornly 3. instead of 4. coldly
78. Select the most appropriate option to fill in blank number 3.
1. blow 2. upside 3. look 4. glow
79. Select the most appropriate option to fill in blank number 4.
1. selection 2. partition 3. kind 4. label
80. Select the most appropriate option to fill in blank number 5.
1. swing 2. climb 3. draw 4. sink

Answer Key

1. (4)	2. (3)	3. (4)	4. (2)	5. (4)	6. (1)	7. (2)	8. (1)	9. (4)	10. (4)
11. (1)	12. (2)	13. (3)	14. (1)	15. (1)	16. (3)	17. (2)	18. (1)	19. (4)	20. (4)
21. (3)	22. (2)	23. (4)	24. (3)	25. (1)	26. (1)	27. (3)	28. (2)	29. (4)	30. (1)
31. (1)	32. (2)	33. (1)	34. (3)	35. (2)	36. (4)	37. (4)	38. (3)	39. (3)	40. (2)
41. (1)	42. (1)	43. (2)	44. (1)	45. (3)	46. (3)	47. (2)	48. (1)	49. (1)	50. (1)
51. (3)	52. (1)	53. (4)	54. (4)	55. (4)	56. (1)	57. (2)	58. (4)	59. (3)	60. (1)
61. (3)	62. (1)	63. (1)	64. (3)	65. (2)	66. (2)	67. (3)	68. (4)	69. (1)	70. (2)
71. (1)	72. (2)	73. (1)	74. (2)	75. (2)	76. (3)	77. (3)	78. (2)	79. (3)	80. (4)

Answers with Explanations

1. Option (4) is correct.

Given that: OXFORD is written as OODFRX

The pattern followed here is:

First, vowels are written in alphabetical order then, consonants are written in alphabetical order.

So, in the word OXFORD

Vowels = OO

Constants = DFRX

And, in the word KILLING

Vowels = II

Consonants = GKLLN

Similarly, in the word SOLUTION

Vowels = IOOU

Constants = LNST

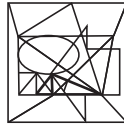
Hence, IOOULNST is the correct answer.

2. **Option (3) is correct.**

Given that: $9 : 27 :: 12 : 48 :: 6 : ?$
 The patten followed here is:
 $(1^{st} \text{ term} \div 3) \times (1^{st} \text{ term}) = 2^{nd} \text{ term}$
 So,
 $(9 \div 3) \times (9)$
 $\Rightarrow 3 \times 9 = 27$
 And,
 $(12 \div 3) \times (12)$
 $\Rightarrow 4 \times 12 = 48$
 Similarly,
 $(6 \div 3) \times (6)$
 $\Rightarrow 2 \times 6 = 12$
 Hence, 12 is the correct answer.

3. **Option (4) is correct.**

The given figure is embedded in option (4) as follows:



4. **Option (2) is correct.**

Given series: $\frac{1}{402}, \frac{1}{335}, ?, \frac{1}{201}, \frac{1}{134}$
 Here, denominators are decreasing by 67.
 So,
 $402 - 67 = 335$
 $335 - 67 = 268$
 $268 - 67 = 201$
 $201 - 67 = 134$
 Hence, 268 is the correct answer.

5. **Option (4) is correct.**

The correct order of the given words are as follows:

5. Major	4. Maker	2. Marble	1. Marching	3. Matching
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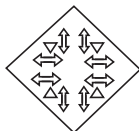
Hence, 5, 4, 2, 1, 3 is the correct answer.

6. **Option (1) is correct.**

Upon checking option 1 and putting signs as per question, we get:
 $10 \div 2 \times 3 - 9 + 2 = 8$
 $\Rightarrow 5 \times 3 - 9 + 2 = 8$
 $\Rightarrow 15 - 9 + 2 = 8$
 $\Rightarrow 17 - 9 = 8$
 $\Rightarrow 8 = 8$
 LHS = RHS

7. **Option (2) is correct.**

After unfolding the paper, following image will appear:



8. **Option (1) is correct.**

Given series: AEHJ, DHKM, ?, JNQS, MQTV
 The pattern followed here is:

A	E	H	J
+3	+3	+3	+3
D	H	K	M
+3	+3	+3	+3
G	K	N	P
+3	+3	+3	+3
J	N	Q	S
+3	+3	+3	+3
M	Q	T	V

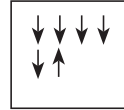
Hence, GKNP is the correct answer.

9. **Option (4) is correct.**

Given that:
 dark Colors \rightarrow (yu) (nu)
 nights are Dark \rightarrow ku (nu) pu
 Hence, 'colors' will be coded as 'yu'.

10. **Option (4) is correct.**

In the given pattern, one arrow is increasing and the last arrow faces upwards while the other arrows faces downwards.



So, the required answer figure is:

11. **Option (1) is correct.**

In the given analogy, Semi-Annual is half of Annual. Similarly, fortnightly refers to two weeks i.e., half of a month.

12. **Option (2) is correct.**

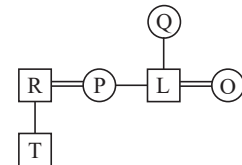
Given series: AETO, CGRM, ?, GKNI, IMLG
 The pattern followed here is:

A	E	T	O
+2	+2	-2	-2
C	G	R	M
+2	+2	-2	-2
E	I	P	K
+2	+2	-2	-2
G	K	N	I
+2	+2	-2	-2
I	M	L	G

Hence, EIPK is the correct answer.

13. **Option (3) is correct.**

According to the question, following family tree can be made:



Hence, Q is mother's mother of T.

14. **Option (1) is correct.**

Given that:
 AFHO is related to CHIP

A	F	H	O
+2	+2	+1	+1
C	H	I	P

And, QDXM is related to SFYN

Q	D	X	M
+2	+2	+1	+1
S	F	Y	N

Similarly, for ADGH:

A	D	G	H
+2	+2	+1	+1
C	F	H	I

Hence, CFHI is the correct answer.

15. **Option (1) is correct.**

Given equation: $104 \div 13 + 78 - 3 \times 2 = 143$
 Upon checking option (1) and interchanging \div and $-$, we get:
 $104 - 13 + 78 \div 3 \times 2 = 143$
 $\Rightarrow 104 - 13 + 26 \times 2 = 143$
 $\Rightarrow 104 - 13 + 52 = 143$
 $\Rightarrow 156 - 13 = 143$
 $\Rightarrow 143 = 143$
 LHS = RHS

16. **Option (3) is correct.**

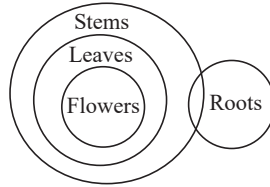
According to the given statements, following Venn diagram can be made:

Conclusion I- Some stems are leaves - True.

Conclusion II- Some flowers are roots - False.

Conclusion III- Some leaves are flowers - True.

Hence, only conclusion I and III follows.



17. **Option (2) is correct.**

Given series: 53, 56, 50, ?, 47, 62

The pattern followed here is:

$$53 + (3 \times 1) = 56$$

$$56 - (3 \times 2) = 50$$

$$50 + (3 \times 3) = 59$$

$$59 - (3 \times 4) = 47$$

$$47 + (3 \times 5) = 62$$

Hence, 59 is the correct answer.

18. **Option (1) is correct.**

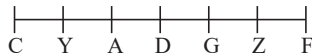
In the mirror image, left becomes right and right becomes left.

So, the required mirror image is as follows:

J	7	9	C	M	S	6	5	y		M
										ϣ
										2
										2
										M
										∩
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ
										ϣ

19. **Option (4) is correct.**

According to the question, following sitting arrangement can be made:

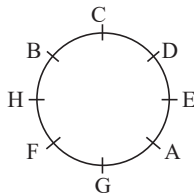


Hence, Y is sitting second from the left end.

20. **Option (4) is correct.**

According to the question, following sitting arrangement can be made:

Hence, H is sitting to the immediate right of B.



21. **Option (3) is correct.**

Seasonal unemployment happens when some industries or jobs need more workers at certain times of the year, like during harvest season in farming. In this situation, workers are hired only for that specific period. When the busy season is over, these workers might not have jobs until the next busy time comes around.

22. **Option (2) is correct.**

A savings account is a deposit account specifically designed for accumulating and safely storing money while earning interest. It is the most common type of account used for saving regular income.

23. **Option (4) is correct.**

The export of goods contributes to the generation of foreign exchange for a country. This foreign money is important because it can be used to buy things from other countries, pay off debts to other nations, and make the country's economy stronger in the world.

24. **Option (3) is correct.**

Suryabanshi Suraj became the Member of Legislative Assembly from the Dhamnagar constituency in Odisha, India in November 2022. He is the son of Bishnu Sethi and won the November 2022 by-election for the Dhamnagar constituency, representing the Bharatiya Janata Party (BJP).

25. **Option (1) is correct.**

India's first-ever SAI Centre of Excellence for mountain terrain biking and bicycle motocross is to be set up in Shimla.

26. **Option (1) is correct.**

The Sangeet Natak Akademi Awards (Akademi Puraskar) currently carries 1,00,000 (Rupees one lakh) along with a Tamrapatra and Angavastram.

27. **Option (3) is correct.**

Under the Consumer Protection Act 2019, the State Government, through notification, is responsible for establishing a District Consumer Disputes Redressal Commission in each district of the state. This commission serves as a forum for consumers to seek redressal for their grievances and resolve disputes.

28. **Option (2) is correct.**

The National Seeds Corporation (NSC) was set up in 1963, and it is responsible for activities related to seed production, including the production of foundation stock for High Yielding Variety (HYV) seeds. The NSC plays a crucial role in ensuring the availability of quality seeds for farmers in India.

29. **Option (4) is correct.**

The former Chief Economic Advisor appointed as a full-time member of NITI Aayog in November 2022 is Arvind Virmani. He served as the Chief Economic Advisor from 2007 to 2009 and was appointed as a full-time member of NITI Aayog on November 16, 2022.

30. **Option (1) is correct.**

Mohammed Ali Jinnah, Madan Mohan Malaviya, and Mazhar Ul Haq resigned from the Imperial Legislative Council in 1919 to protest against the Rowlatt Act.

31. **Option (1) is correct.**

When foods have starch in them and you put iodine on them, they will change colour to blue-black. This colour change is a common way to check if there is starch in different things.

32. **Option (2) is correct.**

Kati Bihu, often observed in October, is also called Kangali Bihu or the Festival of the Poor. During this time, when granaries are empty, people light lamps and conduct rituals to safeguard their crops from pests and insects.

33. **Option (1) is correct.**

The members of a Vidhan Parishad are elected for a term of 6 years. The Vidhan Parishad, also known as the Legislative Council, is the upper house of the bicameral legislature in some Indian states.

34. **Option (3) is correct.**

Dormant volcanoes are those that have not erupted for a very long time but have the potential to erupt again in the future. They are in a state of temporary inactivity.

35. **Option (2) is correct.**

Vaishali used to be the main city of an ancient place called Vajji Mahajanapada in India. This area was known for its democratic way of governing, and they called it the Vajjian Confederacy.

36. **Option (4) is correct.**

The 42nd Constitutional Amendment was made according to the recommendation of the Swaran Singh Committee, set up in 1976. This committee played a significant role in suggesting amendments to the Indian Constitution.

37. **Option (4) is correct.**

In a football match, the pitch's length should fall within a range of 90m to 120m. The official regulations, set by the

International Football Association Board (IFAB), outline specific dimensions for the pitch:

- The touchlines, which are the long sides of the pitch, must be between 90 meters (98.4 yards) and 120 meters (131.2 yards) in length.
- The goal lines, representing the shorter sides of the pitch, should be within a length range of 45 meters (49.2 yards) to 90 meters (98.4 yards).

38. Option (3) is correct.

The Ghodmodini dance is a folk dance form associated with Goa. This dance is performed during various traditional festivals and celebrations in the state, reflecting the cultural richness of Goa.

39. Option (3) is correct.

Sri Lanka is separated from India by the Palk Strait. This waterway is like a channel between the Jaffna Peninsula in northern Sri Lanka and Tamil Nadu, a state in India. It's about 80 kilometres long and 40 to 80 kilometres wide. Lots of different sea animals live there, like fish, shrimp, and crabs. People use the strait for shipping, and there are regular ferry services that travel between Sri Lanka and India.

40. Option (2) is correct.

When lead nitrate is heated, it decomposes to form lead oxide, nitrogen dioxide, and oxygen. Therefore, the gases released are nitrogen dioxide and oxygen.

41. Option (1) is correct.

Given:

Principal(P) = 3,00,000

Time(t) = 3 year

Rate of interest(r), compounded annually = 8%

$$\begin{aligned} \text{Amount} &= P \left(1 + \frac{r}{100} \right)^t \\ &= 3,00,000 \left(1 + \frac{8}{100} \right)^3 \\ &= 3,00,000 \left(\frac{108}{100} \times \frac{108}{100} \times \frac{108}{100} \right) \\ &= 3,77,913.60 \end{aligned}$$

42. Option (1) is correct.

Let the speeds of the two trains be x m/sec and y m/sec respectively.

Using Length = Speed \times Time

Then, length of the first train = $30x$ metres,

and length of the second train = $15y$ metres.

According to question, $\frac{30x+15y}{x+y} = 25$ seconds

$$3x + 15y = 25x + 25y$$

$$5x = 10y$$

$$\frac{x}{y} = \frac{2}{1}$$

$$\Rightarrow x : y = 2 : 1$$

43. Option (2) is correct.

Value of, $\frac{1}{\frac{1}{6} \div \frac{1}{6} \times \frac{1}{6}} - \frac{1}{\frac{1}{6} \div \frac{1}{6} \text{ of } \frac{1}{6}}$

$$\begin{aligned} &= \frac{1 \times \frac{1}{6}}{\frac{1}{6} \div \frac{1}{6}} - \frac{1}{\frac{1}{6}} \\ &= \frac{1}{6} - \frac{1}{36} \\ &= \frac{1}{36} - \frac{1}{36} = 0 \end{aligned}$$

44. Option (1) is correct.

Given:

Radius(r) = 9 cm

Using, volume of hemisphere = $\frac{2}{3} \pi r^3$

$$\begin{aligned} &= \frac{2}{3} \times \frac{22}{7} \times 9 \times 9 \times 9 \\ &= 1,527.43 \text{ cm}^3 \end{aligned}$$

45. Option (3) is correct.

Given:

The average temperature of Monday, Tuesday, Wednesday and Thursday = 42°

Total Temperature of 4 days (t_1) = $42 \times 4 = 168$

and Tuesday, Wednesday, Thursday and Friday = 44°

Total Temperature of 4 days (t_2) = $44 \times 4 = 176$

According to question ($t_2 - t_1$), the Temperature of Friday-Monday = $176 - 168 = 8$

Given that, Ratio of Temperature of Monday and Friday is = $3 : 5$

Let Temperature of Friday = $5x$

Let Temperature of Monday = $3x$

According to question, $5x - 3x = 2x = 8$

$$x = 4$$

Temperature of Friday = $5x = 5 \times 4 = 20^\circ$

46. Option (3) is correct.

Let efficiency of one man and one woman are M and W respectively.

Using, total work = $M_1 D_1 = M_2 D_2$

According to the question,

$$\Rightarrow (3M + 2W) \times \frac{120}{13} = (2M + 3W) \times 10$$

$$\Rightarrow (360M + 240W) = (260M + 390W)$$

$$\Rightarrow 100M = 150W$$

$$\Rightarrow \frac{M}{W} = \frac{3}{2}$$

Now, total work = $(2M + 3W) \times 10 = (2 \times 3 + 3 \times 2) \times 10 = 120$ unit

According to the question,

Work completed in 15 days = $(1 \times 3 + 1 \times 2) \times 12 + (2 \times 3 + 1 \times 2) \times 3 = 84$ unit

Remaining work = $120 - 84 = 36$ unit

Next day, work done by 2 men and 1 woman = $(2 \times 3 + 1 \times 2) = 8$ unit

So, work for which extra man power needed = $36 - 8 = 28$ unit

Hence, either 14 women or 10 men required to join the group to complete the task on end day.

47. Option (2) is correct.

Given:

Forward speed(x) = 40 km/h

Backward speed(y) = 70 km/h

$$\text{Using, Average speed} = \frac{2xy}{x+y}$$

$$\begin{aligned} \text{Average Speed} &= \frac{2 \times 40 \times 70}{40 + 70} \\ &= \frac{560}{11} \\ &= 50 \frac{10}{11} \text{ km/h} \end{aligned}$$

48. Option (1) is correct.

Let third proportional is x

$$16 : 320 = 320 : x$$

$$x = \frac{320 \times 320}{16} = 6400$$

49. Option (1) is correct.

Let the price of the commodity in 2020 as P .

The price increases by 10% from 2020 to 2021, so the price in 2021 = $1.10 \times P$

Then, it increases by 15% from 2021 to 2022, so the price in 2022 = $1.15 \times (1.10 \times P)$

Given: The difference in prices between 2020 and 2022 = ₹35:

$$1.15 \times (1.10 \times P) - P = 35$$

$$1.15 \times 1.1 \times P - P = 35$$

$$0.265 P - P = 35$$

$$1.265 P = 35$$

$$P = \frac{35}{0.265}$$

$$\text{Price in 2021} = 1.10 \times P$$

$$= 1.1 \times \frac{35}{0.265}$$

$$= 145.28\% \text{ (approx.)}$$

50. Option (1) is correct.

Let the marked price of the electric geyser = MP

As given, the first discount is 15%, so the price after the first discount is = $0.85 MP$

The second discount is 4%, so the price after the second discount is = $0.96 \times 0.85 MP$

In addition to these discounts, there is a reduction of 244, Therefore, the final selling price will = $0.96 \times 0.85 MP - 244$

According to the question, this final selling price (SP) is = ₹7,100

$$\text{So that, } 0.96 \times 0.85 MP - 244 = 7100$$

$$0.816 MP = 7344$$

$$\text{On solving, } MP = 9000 \text{ (approx.)}$$

51. Option (3) is correct.

Given: The marked price = ₹500

As given in the question, there is a 50% discount on the marked price, so the price after the first discount is = $0.5 \times 500 = 250$

As given, the final selling price is = 200

$$\text{So, additional discounts} = 250 - 200 = 50$$

$$\text{Percentage additional discounts} = \frac{50}{250} \times 100 = 20\%$$

52. Option (1) is correct.

Given: The marked price = ₹7500

As given, there is a 12% discount on the marked price, so the price after the discount is = $0.88 \times 7500 = 6600$

As given, the final selling price is = 5400

$$\text{So, additional discounts} = 6600 - 5400 = 1200$$

$$\begin{aligned} \text{Percentage off season discounts} &= \frac{1200}{6600} \times 100 \\ &= 18.18\% \text{ (approx.)} \end{aligned}$$

53. Option (4) is correct.

Let the CP and SP = ₹100/kg

CP of 950 g = ₹95

SP of 1 Kg = ₹100

$$\text{Gain(G)} = \text{SP} - \text{CP} = ₹5$$

$$\begin{aligned} \text{Percentage gain} &= \frac{G}{CP} \times 100 \\ &= \frac{5}{95} \times 100 \\ &= 5 \frac{5}{19} \end{aligned}$$

54. Option (4) is correct.

$$a^3 + b^3 = 2^3 + 3^3 = 35$$

$$a^2 + ab + b^2 = 2^2 + 2 \times 3 + 3^2 = 19$$

Let the third proportional of 35 and 19 is x

$$35 : 19 = 19 : x$$

$$x = \frac{19 \times 19}{35} = 10.31$$

55. Option (4) is correct.

Using, Volume of a solid right circular cylinder = $\pi R^2 H$

Using, Volume of a solid cone = $\frac{1}{3} \pi r^2 h$

As given in the question $r = R$

And H (height of cylinder) = 8.8 cm

$$\text{According to the question, } \pi R^2 H = \frac{1}{3} \pi r^2 h$$

$$H = \frac{1}{3} h$$

$$h = 3H$$

$$= 3 \times 8.8$$

$$= 26.4 \text{ cm}$$

56. Option (1) is correct.

Let the population in 2011 = P

As given in the question, town's population is increasing at the rate of 2% annually.

So, the population in 2012 = $1.02 P$

So, the population in 2013 = $1.02(1.02 P)$

So, the population in 2014 = $1.02(1.02 \times 1.02 P)$

According to question population in 2014 = 13,265

$$\text{So that, } 1.02(1.02 \times 1.02 P) = 13,265$$

$$1.0612 P = 13,265$$

$$P = 12,500$$

57. Option (2) is correct.

As given, 315 men can consume the food = 48 days

So that, 1 man can consume the food = 48×315 days

Number of men after joining 45 men = $315 + 45 = 360$

$$\begin{aligned} \text{So that, 360 men can consume the food} &= \frac{48 \times 315}{360} \text{ days} \\ &= 42 \text{ days} \end{aligned}$$

58. Option (4) is correct.

As given the number = 40

As given, the number is increased by 40%, so increment in

$$\text{number} = \frac{40}{100} \times 40 = 16$$

59. Option (3) is correct.

As we know that, the smallest number which is divisible by x and y is the LCM of (x, y) .

So that, the smallest number which is divisible by both 18 and 24 is the LCM of (18, 24)

LCM of (18, 24) = 36

Sum of the digits of 36 = 3 + 6 = 9

Square of the sum of the digits = $9 \times 9 = 81$

60. Option (1) is correct.

Given: Upstream = 12 km/h

Downstream = 20 km/h.

$$\begin{aligned} \text{Using, rowing speed in still water} &= \frac{\text{Downstream} + \text{Upstream}}{2} \\ &= \frac{20 + 12}{2} \\ &= 16 \text{ km/h} \end{aligned}$$

$$\begin{aligned} \text{Using, rate of current} &= \frac{\text{Downstream} - \text{Upstream}}{2} \\ &= \frac{20 - 12}{2} \\ &= 4 \text{ km/hr} \end{aligned}$$

61. Option (3) is correct.

'That' is used to indicate a specific object, item, person, condition, etc., while 'which' is used to add information to objects, items, people, situations, etc. Since the sentence talks about a specific road, the appropriate word to refer to the road is 'that.'

62. Option (1) is correct.

The question tests a student's knowledge of vocabulary. The word destroyed means to damage something so badly that it cannot be used. Example: During war, most of the old part of the city was destroyed by bombs. The synonym for 'destroyed' is ruined. Skyrocketed means to rise extremely quickly or make extremely quick progress towards success. Example: Housing prices have skyrocketed in recent months.

63. Option (1) is correct.

The question tests a student's knowledge of vocabulary. Succinct, meaning "short and to the point." Example: Bits had gotten their nickname solely because of their succinct way of speaking. Hence, the antonym of 'succinct' is 'lengthy'. Hasty means done with excessive speed or urgency; hurried.

64. Option (3) is correct.

The question tests a student's knowledge of vocabulary. Cluster means a group of similar things or people positioned or occurring closely together. Example: "Clusters of creamy-white flowers attracted many people." The antonym of 'cluster' is 'individual'. Consort means to spend a lot of time in the company of a particular group of people, especially people whose character is not approved of.

65. Option (2) is correct.

The question tests a student's knowledge of vocabulary. Despise means to feel contempt or a deep repugnance for. Example: "He despised Dhruv for his selfish nature". Hence, the synonym of 'despise' is hate. Eradicate means to destroy completely. "Revered means respected."

66. Option (2) is correct.

The question tests a student's knowledge of vocabulary, idioms and phrases. "Most important issue to be discussed" can be represented by "burning issue." "Burn the candle at both ends" means to work or do other things from early in the morning until late at night and so get very little rest. "Burn a hole in the pocket" is used to refer to someone who can't resist the urge to spend money as soon as they earn it. "Burn one's fingers" means to suffer an unpleasant or ruinous consequence (especially the loss of money) for some action, often such that

one becomes unwilling or reluctant to do it again.

67. Option (3) is correct.

A homonym is a word that sounds the same or is spelled the same as another word but has a different meaning. Cite means to refer to (a passage, book, or author) as evidence for or justification of an argument or statement, especially in a scholarly work. Example: "Authors who are highly regarded by their peers tend to be cited." "He does not cite any source for this assertion." Sight means the faculty or power of seeing. Example: "Joseph lost his sight as a baby." A site is a place where something is, was, or will be built, or where something happened, is happening, or will happen. Cyte means denoting a mature cell. Example: "lymphocyte." The given sentence talks about construction, so the apt word in the blank is "site."

68. Option (4) is correct.

The misspelled word is "addopt". The correct word is "adopt," which means to accept or start to use something new.

69. Option (1) is correct.

The correct spelling of "acquiesced" is "acquiesced." Acquiesced means accepting something reluctantly but without protest. Example: "Sara acquiesced to her husband's decision to relocate to a remote area."

70. Option (2) is correct.

The pot calling the kettle black is a proverbial idiom. It refers to a situation in which one person criticizes another for a fault the first person also has: Sean called me a liar – that's the pot calling the kettle black!

71. Option (1) is correct.

The first blank refers to spending some money. So, the correct word is 'cent'. The second blank mentions the speaker's liking for some fragrance. Hence, the apt word in the blank is "scent."

72. Option (2) is correct.

The correct pronoun to refer to "chillies" is "they." So, the correct replacement of the given phrase is "they can irritate the skin." The correct auxiliary here is 'can' not 'could', as the sentence is in present tense ; moreover, it is not a possibility but a quality of the chillies.

73. Option (1) is correct.

The replacement of the underlined part is "he is very pleased." Since, the subject (he) of the sentence is without a 'verb', a verb 'is' is added in the correction to make complete sense. The auxiliary verb 'is' always takes the verb in the third form (pleased).

74. Option (2) is correct.

The past perfect is a tense that shows something that started in the past and continued up to a given time or happened several times before a point in the past. The sentence refers to an action in the present because it mentions "we must acknowledge," thus the later part of the sentence should be in the present perfect tense (have visited). The present perfect tense is employed in a sentence to represent an action that just happened in the recent past and still has its effect in the present or an action that represents an indefinite time in the past.

75. Option (2) is correct.

The question tests a student's knowledge of vocabulary. Curious means eager to know or learn something. "I began to be curious about the whereabouts of the bride and groom." The synonym for 'curious' is 'inquisitive'. Ingenious means naïve. Indiscriminate means done at random or without careful judgement.

76. Option (3) is correct.

The sentence describes the sky and compares it with the sea. The best word to describe it is 'huge'. It cannot be vigilant and allotted.

77. Option (3) is correct.

Since the latter part of the sentence draws contrast, the word that should fill the blank should be a conjunction used to express that contrast. Hence, the best word is “instead of.”

78. Option (2) is correct.

The word next to the blank is ‘down,’ so the best word in the blank is ‘upside.’ The sentence is: We see the earth upside down.

79. Option (3) is correct.

The best fit word in the blank is ‘kind,’ because the paragraph draws similarity between the earth and the sky.

80. Option (4) is correct.

The sentence mentions that when we die, we fall and sink into the sky. The blank needs a word that is in sink with ‘fall’, so best word is ‘sink’ in the context.