

STAFF SELECTION COMMISSION

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

SOLVED PAPER

(7th February 2023: Shift-1)

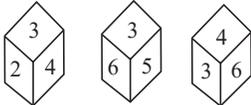
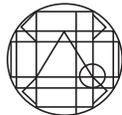
Time Allotted- 1 hours

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 code language, 'sweet fruits' is coded as 're de', 'mango is sweet' is coded as 'de me ke', 'orange is citrus' is coded as 'ke le pe', 'eat orange' is coded as 'pe ne'. What is the code for the word 'mango'?
 1. pe 2. ke 3. de 4. me
2. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
 42 : 91 :: 84 : ? :: 149 : 198
 1. 133 2. 142 3. 128 4. 131
3. Three different positions of the same dice are shown. Find the number on the face opposite the face showing '3'.

 1. 2 2. 4 3. 1 4. 5
4. Seven people, P, Q, R, S, T, U and V are sitting in a straight row, facing north. Only four people sit to the right of P. Only two people sit between P and S. Q is sitting third to the right of V. T is sitting second to the right of Q. U is sitting third to the left of T. Who is sitting at the extreme right end of the row?
 1. R 2. T 3. P 4. S
5. Which of the following letter-clusters will replace the question mark (?) in the given series?
 AVXE, DSUH, GPRK, ?, MJLQ
 1. KJON 2. JMON 3. JJPM 4. KKON
6. Select the option figure which is embedded in the given figure. (Rotation is NOT allowed).

 1.  2.  3.  4. 
7. Select the number from among the given options that can replace the question mark (?) in the following series.
 14, 12, 27, 25, 53, 51, ?
 1. 105 2. 150 3. 108 4. 180
8. Select the option that is related to the fifth term in the same way as the second term is related to the first term and fourth term is related to the third term.
 PREPARE : ERAPERP :: COMPARE : ERAPMOC ::
 DESPAIR : ?
 1. RIAPSED 2. RIASPED 3. SPAIRDE 4. ESPAIRED

9. In the equation given below, which 2 signs need to be interchanged so that it is balanced?

$$\frac{1}{4} \div \frac{1}{16} - 5 + 45 \times 25 = 40$$

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

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



1.  2.  3.  4. 

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

$$72 \times 3 + 48 \div 6 - 16 = 296$$

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

12. 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 masks are sanitizers.
- All handwashes are sanitizers.
- All sanitizers are medicines.

Conclusions:

- I. All handwashes are medicines.
 - II. All medicines are masks.
 - III. Some medicines are handwashes.
1. All conclusions follow.
 2. Only conclusions II and III follow.
 3. Only conclusions I and II follow.
 4. Only conclusions I and III follow.

13. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



1.  2.  3.  4. 
14. 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)

Spider : Web :: Horse : ?

1. Caravan 2. Palace 3. Stable 4. Den
15. Select the number from among the given options that can replace the question mark (?) in the following series.
8, 10, 17, 19, 35, 37, ?
1. 47 2. 74 3. 77 4. 71
16. In a certain code language, 'TRIFLED' is written as 'YQNEQDI' and 'BRIEF' is written as 'GQNDK'. How will 'FALTER' be written in that language?
1. KYPSJQ 2. KYQTHP 3. KZQSHR 4. KZQSJQ
17. Which letter-cluster will replace the question mark (?) to complete the given series?
NUZD, LSXB, ?, HOTX, FMRV
1. JQVZ 2. JRVZ 3. JQVA 4. JQWZ
18. D \$ E means 'D is the daughter of E'
D @ E means 'D is the mother of E'
D + E means 'D is the father of E'
D * E means 'D is the husband of E'
If P * T \$ X + Z, then how is P related to Z?
1. Paternal uncle 2. Sister's husband
3. Daughter 4. Sister
19. Which option represents the correct order of the given words as they would appear in the English dictionary?
1 domestic 2 dozen 3 double 4 doctor 5 down
1. 4,3,1,5,2 2. 4,1,3,2,5 3. 4,1,3,5,2 4. 4,3,1,2,5
20. Six friends (Aman, Biplab, Chirantan, Divya, Elizabeth and Firoz) are sitting around a circular table facing the centre. Aman sits third to the left of Biplab. Chirantan is an immediate neighbour of Aman. Elizabeth sits second to the right of Divya. Chirantan is not an immediate neighbour of Divya. Who sits to the immediate left of Biplab?
1. Elizabeth 2. Firoz 3. Divya 4. Chirantan
27. Sultan Johor Cup is associated with which sport?
1. Football 2. Hockey 3. Basketball 4. Cricket
28. Which of the following is a fundamental duty?
1. To renounce practices derogatory to the dignity of men
2. To renounce practices derogatory to the dignity of any administrative officials
3. To renounce practices derogatory to the dignity of advocates
4. To renounce practices derogatory to the dignity of women
29. Harshavardhana tried to cross the Narmada to march into the Deccan, but was stopped by a ruler belonging to the Chalukya dynasty, _____.
1. Pulakeshin II 2. Chandragupta
3. Samudragupta II 4. Samudragupta I
30. Net Worth = Assets - _____
1. Book Debts 2. Equity
3. Current Assets 4. Liabilities
31. Which of the given statements is correct?
I. Acid turns red litmus blue.
II. Acids are bitter in taste.
1. Neither I nor II 2. Only II
3. Only I 4. Both I and II
32. The folk dance 'Cheraw' is primarily associated with which Indian state?
1. Bihar 2. Odisha 3. Goa 4. Mizoram
33. In which of the following years did the first elected Parliament come into existence?
1. 1950 2. 1949 3. 1952 4. 1955
34. Which are the two social groups in India which are most vulnerable to poverty?
1. Forward castes and Brahmins
2. Scheduled tribes and Other Backward Classes
3. Brahmins and Scheduled castes
4. Scheduled tribes and Scheduled castes
35. The _____ of a country is measured by the development of manufacturing industries.
1. debt 2. expenditure
3. liability 4. economic strength

General Knowledge & General Awareness

21. Which of the following former Chief Minister of Uttar Pradesh passed away in October 2022?
1. Narayan Dutt Tiwari 2. Kalyan Singh
3. Mulayam Singh Yadav 4. Vijay Kashyap
22. Who among the following became the Member of legislative Assembly of Surma, Tripura in June 2022?
1. Sudip Roy Barman 2. Rajnath Singh
3. Swapna Das Paul 4. Sadhan Pande
23. Gopika Varma won the 2018 Sangeet Natak Akademi Award for _____.
1. Mohiniattam 2. Bharatanatyam
3. Manipuri 4. Odissi
24. Which of the following is a metamorphic rock?
1. Granite 2. Quartzite 3. Sandstone 4. Shale
25. Which among the following Bihu is also known as Rongali Bihu?
1. Magh Bihu 2. Bhogali Bihu
3. Bohag Bihu 4. Kongali Bihu
26. The _____ provides for measures to deter fugitive economic offenders from evading the process of law in India by staying outside the jurisdiction of Indian courts.
1. Economic Offenders Act, 2018
2. Fugitive Economic Offenders Act, 2018
3. Fugitive Offenders Act, 2015
4. Foreign Economic Offenders Act, 2018
37. Which currency notes were demonetised by the government of India in 2016?
1. ₹500 and ₹50 2. ₹500 and ₹1,000
3. ₹500 and ₹100 4. ₹100 and ₹1,000
38. Which of the following activity is related to the tertiary sector of the economy?
1. Storage 2. Automobile production
3. Fishing 4. Cloth Weaving
39. He is perhaps best known for his speech at the Parliament of the World's Religions in Chicago in 1893. Who is 'he' referred to?
1. Swami Vivekananda 2. Keshab Chandra Sen
3. Swami Dayanand Saraswati 4. Mahatma Gandhi
40. The inaugural winners of the Hero Indian Super League (ISL) was ATK, which is a football club based in _____.
1. Kolkata 2. Chennai 3. Mumbai 4. Bengaluru

Elementary Mathematics

41. A, B and C runs at speeds 5 m/s, 3 m/s and 8 m/s respectively. They start the race at the same time from the same point. After some time, it was found that the distance between A and C is 6 m. Determine the distance between A and B.
 1. 3 m 2. 2 m 3. 5 m 4. 4 m
42. A dishonest shopkeeper sells rice at the cost price but he uses a faulty weight of 925g for 1000g. Find his gain percentage.
 1. 6.01% 2. 7.0% 3. 5.3% 4. 8.11%
43. A single discount equivalent to three successive discounts of 10%, 5% and $3\frac{1}{2}\%$ will be _____.
 1. 18.5% 2. 16.9475% 3. 17.4925% 4. 14.5%
44. What is the smallest positive number that should be subtracted from each of 12 and 21, so that 36 is the third proportion to them?
 1. 5 2. 3 3. 4 4. 2
45. The value of a painting rises from ₹ 140000 to ₹ 182000. The percent increase in the value of the painting is:
 1. 50% 2. 10% 3. 30% 4. 40%
46. Find the HCF of the cube of 16 and the square of 48.
 1. 256 2. 768 3. 512 4. 128
47. 24 men complete a work in 9 days. 3 days after they started working, 8 more men joined them. How many days will all of them take to complete the remaining work?
 1. 9 2. 4 3. 5.5 4. 4.5
48. If the price of tea is increased by 20%, by what percentage must the consumption of tea be diminished so as NOT to increase the expenditure on tea?
 1. $33\frac{1}{3}\%$ 2. $16\frac{2}{3}\%$ 3. 20% 4. 25%
49. A solid right-circular cylinder whose radius of the base is 22.5 cm and whose height is 24 cm is melted and moulded in the shape of a right circular cone whose radius of the base is 36 cm. What will be the height of this cone?
 1. 26.225 cm 2. 28.125 cm 3. 29.105 cm 4. 30.25 cm
50. The present value of a house is ₹46,40,000. If its value depreciates at the rate of 5% per annum, then the value of the house after 3 years will be:
 1. ₹39,78,220 2. ₹44,08,000 3. ₹40,70,520 4. ₹41,87,600
51. A person travels three equal distances at the speeds of 2 km/h, 3 km/h and 4 km/h and takes a total time of 52 minutes. The total distance is:
 1. 2.8 km 2. 2.7 km 3. 2.4 km 4. 2.5 km
52. An object moves 15 m in 2.6 min and the next 26 km at a speed of 30 km/h. Find its average speed (in m/sec) for the whole movement.
 1. 8.59 2. 3.76 3. 7.94 4. 2.92
53. Simplify the following.
 30% of $[(820\% \text{ of } 40) - 28]$ % of 600
 1. 540 2. 200 3. 500 4. 250
54. At what rate of compound interest does a sum of money become 3.375-fold in 3 years, compounding annually?
 1. 50% 2. 200% 3. 100% 4. 150%
55. A wholesaler has 1000 kg sugar, part of which he sells at 6% profit and the rest at 12% profit. His gain is 10% on the whole. The quantity sold at 6% profit is: (consider up to two decimals)
 1. 666.66 kg 2. 336.33 kg 3. 663.66 kg 4. 333.33 kg
56. Balvendra offers two successive discounts of 9% and 4% first and then he also provides a cash discount of ₹ 268 on the sale of a CCTV camera. If the marked price of the CCTV camera is ₹5,000, what is the final price of the CCTV camera for a customer?
 1. ₹4,000 2. ₹4,368 3. ₹4,100 4. ₹4,636
57. Ram and Ramesh run two kilometres and Ram wins by 40 seconds. Ram and Naresh run two kilometres and Ram wins by 650 metres. When Ramesh and Naresh run the same distance, Ramesh wins by 25 seconds. Find the time taken by Ram to run two kilometres.
 1. 3 minutes, 15 seconds 2. 2 minutes, 15 seconds
 3. 3 minutes, 35 seconds 4. 2 minutes, 35 seconds
58. If the volume of a solid right circular cone is $v \text{ cm}^3$ and its height is $h \text{ cm}$, then the radius of the cone is:
 1. $\frac{v}{\pi h^2} \text{ cm}$ 2. $\sqrt{\frac{3v}{\pi h}} \text{ cm}$ 3. $\frac{3v}{\pi h^2} \text{ cm}$ 4. $\sqrt{\frac{v}{\pi h}} \text{ cm}$
59. Aman can do a piece of work in 78 days. Ram can do this work in 39 days. Aman started the work alone. After how many days should Ram join him, so that the work is finished in 39 days?
 1. $\frac{39}{2}$ days 2. $\frac{77}{2}$ days
 3. $\frac{27}{2}$ days 4. $\frac{17}{2}$ days
60. ₹ 936 is divided among P, Q and R in the ratio 2 : 3 : 4 instead of $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ by mistake. The gain of R in the distribution is _____.
 1. ₹200 2. ₹24 3. ₹124 4. ₹216

English

61. Select the most appropriate option that can substitute the underlined segment in the given sentence.
 The library is the right place to write an article from a journal.
 1. to fill an article 2. to correct an article
 3. to read an article 4. to find the article
62. Select the most appropriate synonym of the given word.
 Swindle
 1. Threat 2. Fraud 3. Observation 4. Ride
63. Select the most appropriate meaning of the given idiom.
 A cakewalk
 1. An unexpected twist
 2. A stylish walk
 3. An easy task or victory
 4. A precious memory to cherish
64. Select the most appropriate option to fill in the blank.
 When the separatist tendencies become very active, the unity of any nation can be in _____.
 1. solitaire 2. docile 3. negotiation 4. peril
65. Select the most appropriate synonym of the given word.
 Calamity
 1. Fortune 2. Disaster 3. Windfall 4. Prosperity
66. Select the most appropriate option that can substitute the underlined segment in the given sentence.
 The treaty was signed by both the parties to retain the status-quo.
 1. previous condition 2. unnatural behaviour
 3. current situation 4. class of societies
67. Select the most appropriate synonym of the word given in the bracket to fill in the blank.
 Rohan _____ (insufficient) the compassion required to be a doctor.
 1. oversized 2. lacked 3. was deprived 4. voided
68. Select the correct spelling of the underlined word in the following sentence.
 You can eat anything you like accept the rice pudding.
 1. axcept 2. accede 3. except 4. assess

69. Identify the spelling error in the given sentence and select the option that rectifies the error.
He dared to compete against the experienced boxer.
1. compete 2. ageinst 3. experianced 4. deired
70. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
Last night I played my guitar loudly and the neighbours complain.
1. Last night I played 2. and the neighbours complain
3. No error 4. my guitar loudly
71. Select the most appropriate meaning of the given idiom.
Has bigger fish to fry
1. Has better choice of food
2. Has easier plans to solve the issue
3. Has more important work to do
4. Has greater plans to discuss
72. Select the most appropriate ANTONYM of the given word.
Escalate
1. Corrupt 2. Intensify 3. Diminish 4. Enlarge
73. Select the most appropriate ANTONYM of the given word.
Follow
1. Ensure 2. Predate 3. Supplant 4. Displace
74. Select the correct word for the blanks in the given sentence.
I need a blue _____ for writing and my brother runs a _____ for dogs.
1. shelter 2. nib 3. pen 4. herd
75. Select the most appropriate option to fill in the blanks in the given sentence.
Shelley is good at _____ and also has a new _____ of the Oxford dictionary launched last month.
1. edition; addition 2. addition; addition
3. addition; edition 4. edition; edition
- 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.
Looking at the stars is a glimpse (1) _____ history. Some of the things we see (2) _____ millions of light-years (3) _____. Everything in the universe (4) _____ a past but stars don't try to hide it. They just (5) _____ shining, for everyone to see.
76. Select the most appropriate option to fill in blank number 1.
1. among 2. besides 3. up 4. of
77. Select the most appropriate option to fill in blank number 2.
1. flush 2. separate 3. grow 4. are
78. Select the most appropriate option to fill in blank number 3.
1. now 2. away 3. between 4. close
79. Select the most appropriate option to fill in blank number 4.
1. have 2. should 3. has 4. can
80. Select the most appropriate option to fill in blank number 5.
1. blight 2. part 3. force 4. keep

Answer Key

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

Answers with Explanations

1. Option (4) is correct.

Given that:

Sweet fruits → re de

Mango (is) Sweet → de me (ke)

Orange (is) Citrus → ke le pe

Eat Orange → Pe ne

Hence, 'Mango' will be coded as 'me'.

2. Option (1) is correct.

Given that: 42 : 91 :: 84 : ? :: 149 : 198

The pattern followed here is:

$$42 + 49 = 91$$

$$84 + 49 = 133$$

$$149 + 49 = 198$$

Hence, 133 is the correct answer.

3. Option (3) is correct.

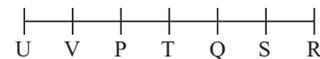
According to the given figures, the numbers adjacent to 3 are 2, 4, 5, 6.

So, the face which is left and opposite to 3 is '1'.

Hence, 1 is the correct answer.

4. Option (1) is correct.

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



Hence, R is sitting at the extreme right end of the row.

5. Option (2) is correct.

Given series: AVXE, DSUH, GPRK, ?, MJLQ

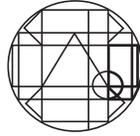
The pattern followed here is:

A	V	X	E
+3	-3	-3	+3
D	S	U	H
+3	-3	-3	+3
G	P	R	K
+3	-3	-3	+3
J	M	O	N
+3	-3	-3	+3
M	J	L	Q

Hence, JMON is the correct answer.

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

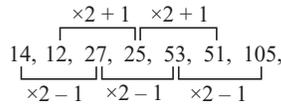
The option figure (4) is embedded in the given figure as follows:



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

Given series: 14, 12, 27, 25, 53, 51, ?

The pattern followed here is:



Hence, 105 is the correct answer.

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

The pattern followed here is:

Letters are reversed from last to first.

So, for PREPARE → ERAPERP

And, for COMPARE → ERAPMOC

Similarly, for DESPAIR → RIAPSED

Hence, RIAPSED is the correct answer.

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

Given equation: $\frac{1}{4} \div \frac{1}{16} - 5 + 45 \times 25 = 40$

Upon checking option (3) and interchanging \times and $-$, we get:

$$\frac{1}{4} \div \frac{1}{16} \times 5 + 45 - 25 = 40$$

$$\Rightarrow \frac{1}{4} \times \frac{16}{1} \times 5 + 45 - 25 = 40$$

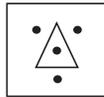
$$\Rightarrow 20 + 45 - 25 = 40$$

$$\Rightarrow 65 - 25 = 40$$

$$\text{LHS} = \text{RHS}$$

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

In the given figure, number of dots are increasing by one.



Hence, the required answer figure is:

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

Given equation: $72 \times 3 + 48 \div 6 - 16 = 296$

Upon checking option (2) and interchanging \times and \div , we get:

$$72 \div 3 + 48 \times 6 - 16 = 296$$

$$\Rightarrow 24 + 48 \times 6 - 16 = 296$$

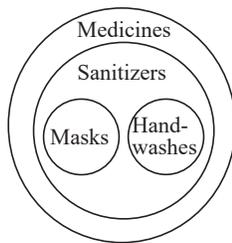
$$\Rightarrow 24 + 288 - 16 = 296$$

$$\Rightarrow 312 - 16 = 296$$

$$\text{LHS} = \text{RHS}$$

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

As per the given statements, following Venn diagram can be made:



Conclusion I- All hand washes are medicines - True.

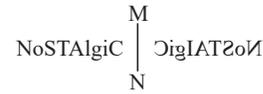
Conclusion II- All medicines are masks - False.

Conclusion III- Some medicines are handwashes - True.

Hence, only conclusion I and III follow.

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

In the mirror image, object on the right comes to left and objects on the left shifts to right.



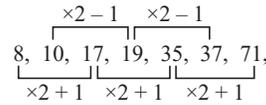
14. **Option (3) is correct.**

In the given analogy, web is a place where spiders live. Similarly, stable is a place where horses are kept or reside.

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

Given series: 8, 10, 17, 19, 35, 37, ?

The pattern followed here is:



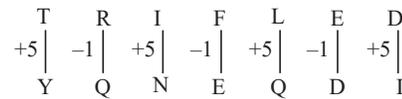
Hence, 71 is the correct answer.

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

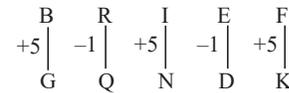
Given that:

TRIFLED is written as YQNEQDI

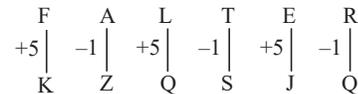
The pattern followed here is:



And, BRIEF is written as GQNDK



Similarly, for FALTER

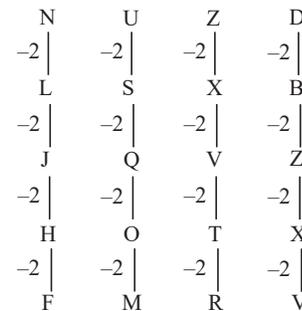


Hence, KZQSJQ is the correct answer.

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

Given series: NUZD, LSXB, ?, HOTX, FMRV

The pattern followed here is:

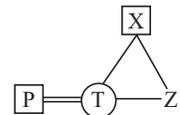


Hence, JQVZ is the correct answer.

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

Given expression: P * T \$ X + Z

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



Hence, P is sisters's husband of Z.

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

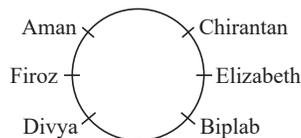
The correct order of the given words are as follows:

4. doctor	1. domestic	3. double	5. down	2. dozen
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Hence, 4, 1, 3, 5, 2 is the correct answer.

20. Option (3) is correct.

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



Hence, Divya sits to the immediate left to Biplab.

21. Option (3) is correct.

He passed away on October 10, 2022, at the age of 82. He served as the Chief Minister of Uttar Pradesh for three terms he was the founder of the Samajwadi Party, and was a prominent figure in Indian politics.

22. Option (3) is correct.

Swapna Das Paul successfully contested the by-election for the Surma constituency on a BJP ticket in June 2022, defeating the CPI(M) candidate.

23. Option (1) is correct.

Gopika Varma won the 2018 Sangeet Natak Akademi Award for Mohiniattam. Mohiniattam is a traditional dance form that originated in the state of Kerala, and Gopika Varma has been recognized for her significant contribution to this art form.

24. Option (2) is correct.

Quartzite is a metamorphic rock. Quartzite is made when sandstone gets hot and squished under pressure. This makes the tiny grains in the sandstone stick together and turns into harder rock with a bumpy texture.

25. Option (3) is correct.

Rongali Bihu is also known as Bohag Bihu. It is the Assamese New Year celebrated in the Indian state of Assam. This Bihu festival marks the onset of the Assamese New Year and the spring season.

26. Option (2) is correct.

The Fugitive Economic Offenders Act, of 2018, is a law made to stop people who have done financial crimes from running away and escaping punishment. It helps in dealing with individuals who have committed economic offences and left the country to avoid facing the law for what they did.

27. Option (2) is correct.

The Sultan Johor Cup is a hockey tournament that happens every year in Johor Bahru, Malaysia. In this competition, junior national teams from different countries play against each other in field hockey matches.

28. Option (4) is correct.

According to the Indian Constitution, a fundamental duty of every citizen is to renounce practices that are derogatory to the dignity of women. This is outlined in Article 51(A)(e).

29. Option (1) is correct.

Harshavardhana wanted to go to the Deccan region, so he tried to cross the Narmada River. But Pulakeshin II, who was the ruler of the Chalukya dynasty, stopped him. Pulakeshin II protected his land and didn't let Harshavardhana expand into his territory.

30. Option (4) is correct.

In the formula for Net Worth, it is calculated by subtracting liabilities from assets. Therefore, Net Worth = Assets - Liabilities.

31. Option (1) is correct.

Acids are molecules that are capable of giving H⁺ ions or forming a covalent bond with electron pairs. Acids are sour. Blue litmus turns red when brought in the presence of acid and does not change colour in the presence of a base. Acids are naturally present in citrus fruits like oranges, grapes, etc.

32. Option (4) is correct.

The traditional dance 'Cheraw' is mainly linked to Mizoram in India. In this dance, performers gracefully move in and out between bamboo sticks placed on the ground. It holds significant importance in the cultural heritage of Mizoram.

33. Option (3) is correct.

The first elected Parliament of India came into existence in the year 1952 after the first general elections held in 1951-52.

34. Option (4) is correct.

In India, Scheduled Tribes (STs) and Scheduled Castes (SCs) are the two groups most vulnerable to poverty. They have faced challenges in the past, leading to higher poverty levels. The government focuses on policies and programs to address their issues and reduce social inequality.

35. Option (4) is correct.

A country's economic strength is often judged by how well its industries, especially manufacturing, are doing. When manufacturing is strong, it means the economy is growing, more jobs are being created, and things are getting produced efficiently. All of this adds up to make the country's overall economy stronger.

36. Option (3) is correct.

Calcium oxide is formed by the decomposition of calcium carbonate when it is heated. The reaction is as follows:



So, heating calcium carbonate results in the formation of calcium oxide and carbon dioxide.

37. Option (2) is correct.

The government of India demonetized ₹500 and ₹1,000 currency notes in November 2016 as a measure to tackle issues such as black money, corruption, and counterfeit currency.

38. Option (1) is correct.

A country's economic strength is often judged by how well its industries, especially manufacturing, are doing. When manufacturing is strong, it means the economy is growing, more jobs are being created, and things are being produced efficiently. All of this adds up to make the country's overall economy stronger.

39. Option (1) is correct.

Swami Vivekananda is well-known for his important speech at the Parliament of the World's Religions in Chicago in 1893. In that famous talk, he greeted the audience as "Sisters and Brothers of America" and talked about the importance of accepting all religions and their universal principles.

40. Option (1) is correct.

ATK (Amar Tomar Kolkata), now known as ATK Mohun Bagan, is a football club based in Kolkata, West Bengal. They were the inaugural winners of the Hero Indian Super League (ISL).

41. Option (4) is correct.

Given that,

Speed of A = 5 m/s

Speed of B = 3 m/s

Speed of C = 8 m/s

$$\text{Using, Time} = \frac{\text{Distance}}{\text{Speed}}$$

Time taken to cover a distance of 6 m relatively between A &

$$C = \frac{6}{8-5} = 2s$$

So, Distance between A and B = $(5-3) \times 2 = 4$ m

42. Option (4) is correct.

Given that,

Shopkeeper is using 925 g weight instead of 1000 g.

$$\text{Profit percentage} = \frac{1000-925}{925} \times 100 = 8.11\%$$

43. Option (3) is correct.

Given that,

Three discounts are 10%, 5% and $\frac{7}{2}\%$ respectively.

Using, a single discount to two successive discounts

$$= x + y - \frac{xy}{100}$$

So, a single discount to two successive discounts of 10% and

$$5\% = 10 + 5 - \frac{10 \times 5}{100} = 14.5\%$$

So, a single discount to two successive discounts of 14.5%

$$\text{and } 3.5\% = 14.5 + 3.5 - \frac{14.5 \times 3.5}{100} = 17.4925\%$$

44. Option (2) is correct.

Let the required number is x.

$$\text{So, } \frac{12-x}{21-x} = \frac{21-x}{36}$$

$$\Rightarrow 36(12-x) = (21-x)^2$$

$$\Rightarrow 432 - 36x = 441 + x^2 - 42x$$

$$\Rightarrow x^2 - 6x + 9 = 0$$

$$\Rightarrow (x-3)^2 = 0$$

$$\Rightarrow x = 3$$

45. Option (3) is correct.

$$\text{Required percentage increase} = \frac{182000-140000}{140000} \times 100 = 30\%$$

46. Option (1) is correct.

Cube of 16 = $16^3 = 2^{12}$

Square of 48 = $48^2 = 2^8 \times 3^2$

So, HCF = $2^8 = 256$

47. Option (4) is correct.

Given that, 24 men can complete a work in 9 days.

$$\text{Using } M_1 D_1 = M_2 D_2$$

After 3 days,

According to the question, $24 \times 6 = 32 \times D$

$$\Rightarrow D = 4.5$$

48. Option (2) is correct.

Given that,

Increased in price = 20% or $\frac{1}{5}$

So, for keeping the expenditure constant, consumption must

be reduced by a ratio of $\frac{1}{6}$.

$$\text{So, required percentage} = \frac{1}{6} \times 100 = 16\frac{2}{3}\%$$

49. Option (2) is correct.

Given that,

Radius of right circular cylinder = 22.5 cm

Height = 24 cm

Now, volume of right circular cylinder = $\pi r^2 h = \pi(22.5)^2(24)$

Also given that the radius of right circular cone = 36 cm

Let the height of cone is h.

$$\text{Volume of cone} = \frac{1}{3} \times \pi r^2 h = \frac{1}{3} \times \pi(36)^2 h$$

According to the question,

$$\Rightarrow \pi(22.5)^2(24) = \frac{1}{3} \times \pi(36)^2 h$$

$$\Rightarrow h = 28.125 \text{ cm}$$

50. Option (1) is correct.

Given that,

Present value of house = ₹4640000

According to the question,

The value of house after three years

$$= 4640000 \times \frac{95}{100} \times \frac{95}{100} \times \frac{95}{100} = ₹3978220$$

51. Option (3) is correct.

Given that,

Let, each equal part of distance = d

$$\text{Using, Time} = \frac{\text{distance}}{\text{speed}}$$

$$\Rightarrow \frac{52}{60} = \frac{d}{2} + \frac{d}{3} + \frac{d}{4}$$

$$\Rightarrow 13d = 10.4$$

$$\Rightarrow d = 0.8 \text{ km}$$

So, total distance = $3 \times 0.8 = 2.4$ km

52. Option (3) is correct.

Given that, an object moves 15 m in 2.6 min and the next 26 km at a speed of 30 km/h.

$$\text{Using, average speed} = \frac{\text{Total distance}}{\text{Total time}}$$

$$\text{Average speed} = \frac{15 + 26000}{2.6 \times 60 + 3120} = 7.94 \frac{\text{m}}{\text{s}}$$

53. Option (1) is correct.

Value of, 30% of $[(820\% \text{ of } 40) - 28]$ % of 600,

= 30% of $[(328 - 28)]$ % of 600

= 30% of 300% of 600

$$= \frac{30}{100} \times \frac{300}{100} \times 600$$

$$= 540$$

54. Option (1) is correct.

Given that, a sum of money become 3.375-fold in 3 years, compounding annually.

$$\text{Using, } A = P \left(1 + \frac{r}{100}\right)^n$$

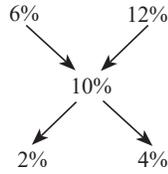
$$\Rightarrow 3.375P = P \left(1 + \frac{r}{100}\right)^3$$

$$\Rightarrow 1 + \frac{r}{100} = 1.5$$

$$\Rightarrow r = 50\%$$

55. Option (4) is correct.

Given that,
Total quantity of sugar = 1000kg
Using Mixture formula,
So, Quantity sold at 6% profit
 $= 1000 \times \frac{2}{6} = 333.33\text{kg}$

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

Given that,
Marked price of camera = ₹5000
According to the question,
Final price of camera = $5000 \times \frac{91}{100} \times \frac{96}{100} - 268 = ₹4100$

57. Option (2) is correct.

Given that,
Let ram takes x seconds to cover the distance of 2 km.
Then, Ramesh and Naresh will take $x + 40$ and $x + 65$ seconds respectively.

$$\text{So, speed of Naresh} = \frac{650}{65} = 10 \text{ m/s}$$

$$\text{So, time taken by Naresh to cover 2km distance} = \frac{2000}{10} = 200 \text{ sec}$$

$$\text{Now, time taken by Ram to cover 2 km distance} = 200 - 65 = 135 \text{ sec} = 2 \text{ min } 15 \text{ sec}$$

58. Option (2) is correct.

Using, volume of right circular cone, $v = \frac{1}{3} \times \pi r^2 h$
 $\Rightarrow r = \sqrt{\frac{3v}{\pi h}}$

59. Option (1) is correct.

Given that,
Aman can do a piece of work in = 78 days
Ram can do this work in = 39 days
Let total work = LCM(39, 78) = 78 unit
Efficiency of Aman = $\frac{78}{78} = 1$ unit/day
Efficiency of Ram = $\frac{78}{39} = 2$ unit/day

Let after x days, Ram joined the work.

According to the question,
 $39 \times 1 + (39 - x) \times 2 = 78 \times 1$

$$x = \frac{39}{2}$$

60. Option (1) is correct.

According to the question,
Gain of R according to the first distribution = $936 \times \frac{4}{9} = ₹416$
Gain of R according to the second distribution = $936 \times \frac{3}{13} = ₹216$

$$\text{Required gain} = 416 - 216 = ₹200$$

61. Option (3) is correct.

The sentence mentions a library, and a library is primarily used for reading books. So, the best replacement of the underlined part is: to read an article.

62. Option (2) is correct.

Swindle means to use deception to deprive (someone) of money or possessions. Example: A businessman swindled investors out of millions of pounds. The synonyms of swindle are fraud and deceit.

63. Option (3) is correct.

The idiom “a cake walk” means to be especially easy, effortless, or trifling to accomplish or complete. Example: After being in charge of such a high profile company for so many years, running this office has been a cakewalk for him.

64. Option (4) is correct.

The blank demands a word that is the result of separatist tendencies being active. So, the best word in this context is ‘peril,’ which means danger. Solitaire means a single jewel (a precious stone). Docile is easily tamed.

65. Option (2) is correct.

The word ‘calamity’ means an event causing great and often sudden damage or distress. Example: “Emergency measures may be necessary in order to avert a calamity.” The synonym of calamity is disaster. Fortune means chance or luck as an arbitrary force affecting human affairs. A windfall means a large amount of money that is won or received unexpectedly. Prosperity means wealth.

66. Option (3) is correct.

The underlined part “status quo” signifies the existing state of affairs or the current situation.

67. Option (2) is correct.

The blank requires a word that is a synonym of ‘insufficient’ and is also apt in the given context. Oversized doesn’t make sense in this context. Void means completely empty. It is also a misfit. Lack means the state of being without or not having enough of something. This is an apt word in the given context. ‘Deprived’ implies a lack of basic material and cultural benefits. It doesn’t fit in the context of the given sentence, since the sentence talks of compassion, which is not a material thing. Moreover it is followed by ‘of’, which is missing.

68. Option (3) is correct.

The word ‘accept’ means consent to receive or undertake (something offered). The sentence states that the person can eat everything, but can’t eat rice pudding. The correct word to express this is ‘except.’ Accede is agree to a demand. Assess means to evaluate.

69. Option (1) is correct.

The correct spelling of the given word is ‘compete,’ which means to take part in a contest.

70. Option (2) is correct.

The question tests a student’s understanding of grammar and sentence structure. Since the sentence mentions last night, the correct tense to be used is the past tense. Thus, the part of the sentence that is erroneous is part ‘b,’ which is in the simple present tense. It should be converted into simple past tense: and the neighbours complained.

71. Option (3) is correct.

The question tests a student’s knowledge of vocabulary. Having bigger fish to fry means having something more important to do. Example: Let me not think of my past failures; I have bigger fish to fry.

72. Option (3) is correct.

The question tests a student’s knowledge of vocabulary. Escalate means to become or make something greater or more

serious. Example: His financial problems escalated after he became unemployed. The antonym of “escalate is diminish,” which means to decrease.

73. Option (2) is correct.

The question tests a student’s knowledge of vocabulary. Follow means to move behind someone or something and go where he, she, or it goes, or to happen or come after something. Example: The book was delivered yesterday with a note saying the bill for it would follow in a day or two. The antonym of ‘follow’ is something that comes earlier. The word for it is predate. Ensur means to happen after something else, especially as a result of it. It is a synonym of the word follow. Supplant means to supersede and replace.

74. Option (3) is correct.

The question tests a student’s knowledge of vocabulary and its usage. We need a word that fits in both blanks. Though ‘ink’ fits in the first blank, it is not suitable in the second blank. Nib fits the second blank but can’t be used in the first blank. A pen means a device used to write or a place where animals are kept. So, ‘pen’ is the best fit in both blanks.

75. Option (3) is correct.

The first blank requires a word at which someone is good, so the best word that fits in the blank is ‘addition’. The second blank requires a word that is a synonym of version, the correct

word in the context is ‘edition’.

76. Option (4) is correct.

As a noun, a glimpse denotes the actual sight or perception of something for a short period of time. When using glimpse as a verb, it is important to remember that it is typically followed by the preposition ‘of’. This combination forms the phrase “glimpse of”, which is commonly used to indicate a brief or quick look at something.

77. Option (4) is correct.

The blank requires a verb to make the sentence meaningful. It shows that the things are positioned very far. Hence, the correct word in the blank is ‘are’.

78. Option (2) is correct.

The best word in the blank is ‘away’ because the sentence states that things are very far away. The correct expression is “light-years away.”

79. Option (3) is correct.

The blank can be filled with a verb that shows the state of things. Since, the subject is ‘everything’ (a singular pronoun), it requires a singular verb ‘has’.

80. Option (4) is correct.

The sentence talks about stars, and the blank is followed by shining, so the best word to fill the blank is ‘keep’.