

Prepp

Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC GD Constable 2022 (English) Prev. Year Paper (11-Jan-2023) (Shift 1)

Total Time: 1 Hour

Total Marks: 160

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence and Reasoning	20	40	0.5	2
2	General Knowledge and General Awareness	20	40	0.5	2
3	Elementary Mathematics	20	40	0.5	2
4	English	20	40	0.5	2

- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence and Reasoning

1. Six people U, V, W, X, Y, and Z are sitting in a circle facing opposite to the centre. U is sitting third to the right of Y. W is sitting to the immediate left of U. W is sitting third to the left of V. Z is not sitting next to U. Who is sitting between W and Y? (+2, -0.5)

- a. Z
- b. X
- c. U
- d. V

2. Which option represents the correct order of the given words as they would appear in the English dictionary? (+2, -0.5)

1 kind

2 kite

3 knit

4 king

5 kindle

- a. 1, 5, 4, 2, 3
- b. 1, 4, 2, 5, 3
- c. 1, 5, 2, 4, 3
- d. 1, 4, 5, 2, 3

3. Which letter-cluster will replace the question mark (?) to complete the given series? (+2, -0.5)

XCMQ, YDNR, ?, AFPT, BGQU

- a. ZEOR
- b. ZEPS
- c. ZEUS
- d. ZEOS

-
4. 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. (+2, -0.5)

Statements:

All bags are rubber.

Some rubber are chairs.

All chairs are tables.

Conclusions:

I. Some rubber are bags.

II. Some chairs are rubber.

III. Some chairs are tables.

- a. Both conclusions I and III follow.
- b. Both conclusions I and II follow.

- c. All conclusions follow.
- d. Both conclusions II and III follow.

5. Which of the mathematical signs should be interchanged in the below equation to make it mathematically correct? (+2, -0.5)

$$144 - 12 + 18 \times 6 \div 24 = 96$$

- a. and \div
- b. and \times
- c. \times and \div
- d. and $+$

6. 'A + B' means 'B is the brother of A' (+2, -0.5)

'A - B' means 'B is the sister of A'

'A % B' means 'B is the daughter of A'

'A & B' means 'B is the wife of A'

If A & B % C + D - E, then how is E related to A?

- a. Mother
- b. Wife
- c. Daughter
- d. Sister

7. Seven friends are sitting around a circular table facing the centre. T is an immediate neighbour of K and U. S is sitting immediate right of K. W is an immediate neighbour of U and M. Who is sitting third to the left of K? (+2, -0.5)

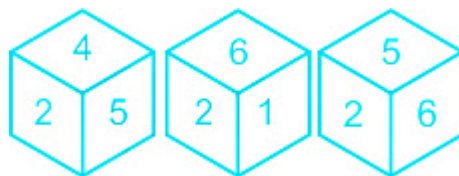
- a. W
- b. M
- c. U
- d. T

8. Which number will replace the question mark (?) in the following series? (+2, -0.5)

6, 24, 60, 120, ?

- a. 150
- b. 180
- c. 135
- d. 210

9. Three different positions of the same dice are shown. Find the number on the face opposite the face showing '2'. (+2, -0.5)



- a. 4
- b. 5

c. 3

d. 1

10. select the figure that will come next in the following series.

(+2, -0.5)



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.)

(+2, -0.5)

Kite : Claw :: Horse : ?

- a. Strong
 - b. Fast
 - c. Power
 - d. Hoof
-

12. In a certain code language, 'GHOST' is written as 'JCRNW' and 'FIRED' is written as 'IDUZG'. How will 'RIFLE' be written in the same code language? (+2, -0.5)

- a. UDIGH
 - b. VEJFH
 - c. PDBGH
 - d. UIDBH
-

13. 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. (+2, -0.5)

PAE : HCQ :: ESH: KUF :: FDN : ?

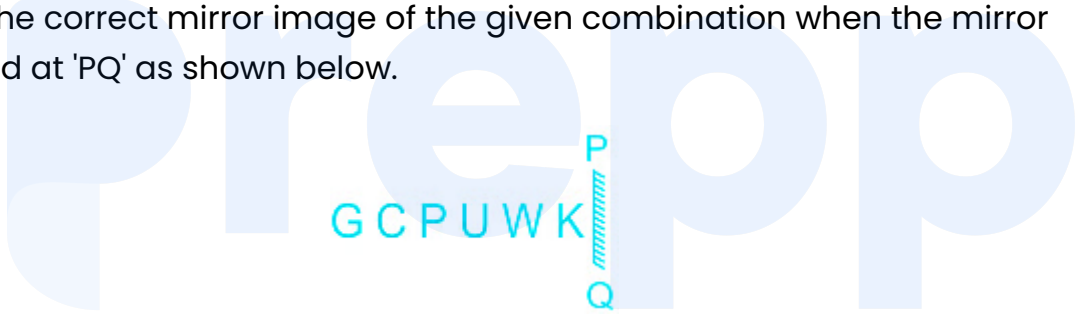
- a. QFG
 - b. KFG
 - c. KGP
 - d. PFH
-

14. Which letter-cluster will replace the question mark (?) to complete the given series? (+2, -0.5)

QJKE, SHIG, UFGI, ?, YBCM

- a. WCFM
- b. VEFL
- c. VDEN
- d. WDEK

15. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below. (+2, -0.5)



- a. KWU900
GCPUWK
- b. GCBUMK
GCPUWK
- c. XMU900
GCPUWK
- d. KWU900
GCBUMK

16. In a certain code language, 'SLOWLY' is written as 'TMNXMZ' and 'FRIEND' is written as 'GSHDOE'. How will 'BORING' be written in that language? (+2, -0.5)

- a. CPSNOH

- b. CNSHOH
- c. CNSJOH
- d. CNSHOF

17. Select the option figure which is embedded in the given figure. (Rotation is NOT allowed) (+2, -0.5)



- a.
- b.
- c.
- d.

18. Which of the following numbers will replace the question mark (?) in the given series? (+2, -0.5)

62498, 61874, ?, 60644, 60038, 59438

- a. 61256
- b. 61656

c. 60544

d. 60446

-
19. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (+2, -0.5)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(11, 78, 15)

(12, 90, 18)

a. (12, 89, 17)

b. (11, 91, 19)

c. (13, 96, 19)

d. (10, 54, 17)

-
20. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation. (+2, -0.5)

$$10 * 18 * 19 * 2 * 1 * 217$$

a. $\times, +, \times, +, =$

b. $\times, +, \times, -, =$

c. $\times, +, -, -, =$

d. +, +, x, -, =

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General Knowledge and General Awareness

21. Government of India has approved a new Central Sector Scheme entitled "National Beekeeping & Honey Mission (NBHM)" which is associated to _____ revolution. (+2, -0.5)

- a. savoury
- b. sweet
- c. honey
- d. golden

22. _____ are a narrow belt of high altitude (above 12,000 m) westerly winds in the troposphere. Their speed varies from about 110 km/h in summer to about 184 km/h in winter. (+2, -0.5)

- a. Jet Streams
- b. Whirlwind
- c. Derecho
- d. Hurricane

23. After independence, India launched its First five year plan in _____. (+2, -0.5)

- a. 1952
- b. 1953
- c. 1950
- d. 1951

24. Which Indian dancer among the following was the Youngest recipient of Padma Vibhushan in 2003? (+2, -0.5)
- a. Uday Shankar
 - b. Sonal Mansingh
 - c. Pandit Birju Maharaj
 - d. Kelucharan Mohapatra
-

25. What is the chemical formula of Calcium Carbonate? (+2, -0.5)
- a. CaSO_4
 - b. CaCO_3
 - c. CaCO_2
 - d. CaO
-

26. Which vitamin is also known as Thiamin? (+2, -0.5)
- a. Vitamin B2
 - b. Vitamin B3
 - c. Vitamin B1
 - d. Vitamin B12
-

27. Who took oath as the Governor of Meghalaya in October 2022? (+2, -0.5)
-

- a. Banwarilal Purohit
 - b. Tathagata Roy
 - c. Satya Pal Malik
 - d. B. D. Mishra
-

28. Gandhi-Irwin pact was signed in which year? (+2, -0.5)

- a. 1931
 - b. 1935
 - c. 1929
 - d. 1933
-

29. A budget document, which deals with the revenue receipts and revenue expenditure of the government for a particular financial year, is called (+2, -0.5)

-
- Your Personal Exams Guide
- a. Revenue budget
 - b. Zero budget
 - c. Long term budget
 - d. Capital budget
-

30. The last article of the Constitution of India has been given the number (+2, -0.5)
----- (as on May 2022).

- a. 380

- b. 390
 - c. 395
 - d. 385
-

31. As of November 2022, who is the Union Minister for Education in India? (+2, -0.5)

- a. Dharmendra Pradhan
 - b. Mansukh Mandaviya
 - c. Anurag Thakur
 - d. Kiren Rijiju
-

32. Which union territory has the highest sex ratio as per the 2011 Census? (+2, -0.5)

- a. Lakshwadeep
 - b. Puducherry
 - c. Daman & Diu
 - d. Chandigarh
-

33. _____ is celebrated as Gujarati New Year in India. (+2, -0.5)

- a. Bestu Varas
- b. Vishu
- c. Losar

d. Losoong

34. Primary raw material for sugar industry is _____ (+2, -0.5)

a. chemical sweetners

b. sweet potato

c. apple

d. sugar cane

35. Which among the following classical dance forms was introduced in the 16th century by Vaishnava saint Mahapurusha Sankaradeva? (+2, -0.5)

a. Kuchipudi

b. Sattriya

c. Odissi

d. Manipuri

36. In which city is the Mohun Bagan Athletic club situated? (+2, -0.5)

a. Jaipur

b. Kolkata

c. Lucknow

d. Bulandshahr

37. Who hosted the FIFA World Cup 2022? (+2, -0.5)

- a. Brazil
 - b. Qatar
 - c. Spain
 - d. Germany
-

38. Removal of president of the country from the office is known as _____. (+2, -0.5)

- a. Impeachment
 - b. Termination of Services
 - c. Resignation
 - d. Voluntary Retirement from services
-

39. Who among the following Greek rulers sent Megasthenes to the court of Chandragupta Maurya? (+2, -0.5)

- a. Seleucus Nicator
 - b. Amyntas II
 - c. Amyntas III
 - d. Phillip II
-

40. What does the right of inheritance lead to? (+2, -0.5)

- a. barren land
- b. land pollution
- c. division of land
- d. land subsidence

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Elementary Mathematics

41. Manish bought an air conditioner for Rs. 46,875, its value is depreciating at the rate of 8% yearly. What will be the price of the air conditioner after 3 years? (+2, -0.5)
- a. Rs. 33,786
 - b. Rs. 32,245
 - c. Rs. 36,501
 - d. Rs. 35,602
-
42. A man covers a distance of 240 kms in 6 hours on the first day, 360 kms in 8 hours on the second day and 450 kms in 6 hours on the third day. Find the average distance per hour covered by him in 3 days. (+2, -0.5)
- a. 52.5 kms
 - b. 50.5 kms
 - c. 51 kms
 - d. 48 kms
-
43. An increase of 25 percent in the price of onions enables a woman to buy 5 kg less for Rs. 200. The increased price of onions per kg is: (+2, -0.5)
- a. Rs. 5 per kg
 - b. Rs. 8 per kg
 - c. Rs. 10 per kg

d. Rs. 15 per kg

44. A person travels in a car for 600 km at an average speed of 50 km/h and 100 km at 100 km/h and finally reaches his destination by traveling 50 km at a speed of 25 km/h. Determine the average speed during the whole journey (+2, -0.5)

a. 50 km/h

b. 75 km/h

c. 58.33 km/h

d. 25 km/h

45. There are 90 female members and 60 male members in the club. If the average age of female members is 35 years, and the average age of male members is 45 years, then find the average age (in years) of the whole club. (+2, -0.5)

a. 39

b. 36

c. 40

d. 47

46. The difference between the two numbers is 15% of their sum. Find the ratio of the smaller number to the larger number. (+2, -0.5)

a. $\frac{13}{17}$

b. $\frac{17}{13}$

c. $\frac{17}{23}$

d. $\frac{23}{17}$

47. The radius of a cone is 5 cm and its slant height is 16 cm. Its total surface area (in cm^2) will be: (+2, -0.5)

a. 330

b. 300

c. 310

d. 320

48. Ruby bought 20 buttons for Rs. 1. How many buttons she must sell for Rs. 1 in order to get a profit of 25%? (+2, -0.5)

a. 15

b. 17

c. 14

d. 16

49. In a proportion. the product of the 1st and 4th term is 70 and that of 2nd and 3rd term is $3.5x$ The value of x is: (+2, -0.5)

a. 21

b. 35

c. 2

d. 20

50. A and B together can do a piece of the work in 50 hours, B and C together can do the same work in 75 hours and A and C together can do the same in 25 hours. Find the time in which A, B, and C together will complete the task. (+2, -0.5)

a. $400/11$ hours

b. $150/11$ hours

c. $131/11$ hours

d. $300/11$ hours

51. Find the difference between the greatest and the smallest 4-digit numbers exactly divisible by 36 and 48. (+2, -0.5)

a. 8928

b. 8892

c. 8298

d. 8982

52. If machines A and B can produce 1100 units in 9 h and 12 h respectively. In how many hours can machines A and B working together at these constant rates produce 1100 units? (+2, -0.5)

a. $\frac{36}{7}$

b. $\frac{37}{7}$

c. $\frac{39}{7}$

d. $\frac{38}{7}$

53. Robin travels one-fourth of the distance at 20 km/h, another one-fourth at 10 km/h, and the remaining distance at 80 km/h. Find Robin's average speed for the entire distance (correct to 2 decimal places) **(+2, -0.5)**

a. 25 km/h

b. 22.86 km/h

c. 20 km/h

d. 18.2 km/h

54. The marked price of an item was Rs. 100000, but the shopkeeper offered a double discount of 20 percent and 10 percent. At what price did he finally sell the item? **(+2, -0.5)**

a. Rs. 72000

b. Rs. 82000

c. Rs. 80000

d. Rs. 70000

55. If $2^{305} + 303$ is divided by 9, then the remainder is: **(+2, -0.5)**

a. 2

b. 4

c. 6

d. 1

56. A chair is bought for ₹800 and sold for ₹1,100. Find the gain percentage. (+2, -0.5)

a. 40%

b. 30%

c. 37.5%

d. 32.3%

57. The curved surface area of the right circular cylinder of height 14 cm is 110 cm^2 . What is the base diameter of the cylinder? (Use $\pi = \frac{22}{7}$) (+2, -0.5)

a. 2.7 cm

b. 2.4 cm

c. 2.5 cm

d. 2.6 cm

58. The marked price on an item was Rs 2000/- but the shopkeeper offered a discount of 20 percent. How much did he finally sell the item for? (+2, -0.5)

a. Rs. 1400

b. Rs. 1200

c. Rs. 1500

d. Rs. 1600

59. In how many years will ₹800 amount to ₹926.10 at 10% per annum, compounded half-yearly? (+2, -0.5)

a. 3

b. 2

c. 2.5

d. 1.5

60. If $a + b = 25$ and $a - b = 7$, then determine the mean proportion of a and b . (+2, -0.5)

a. 12

b. 15

c. 6

d. 9

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English

61. Select the most appropriate ANTONYM of the given word. (+2, -0.5)

Compassionate

- a. Likeable
- b. Merciful
- c. Cruel
- d. Fashionable

62. Select the most appropriate synonym for the underlined word in the given sentence. (+2, -0.5)

An oxygen cylinder is used to deliver oxygen through the patient's nasal orifice.

- a. origin
- b. ornate
- c. ordained
- d. opening

63. Select the most appropriate ANTONYM of the given word. (+2, -0.5)

Feeble

- a. Anxious
- b. Weak

- c. Sturdy
 - d. Curious
-

64. The sentence below is divided into four segments. Select the option that has an error of tense. (+2, -0.5)

I has been / visiting my / family and relatives / during the winter vacation

- a. during the winter vacation
 - b. family and relatives
 - c. visiting my
 - d. I has been
-

65. Select the most appropriate option that can substitute the underlined segment in the given sentence. (+2, -0.5)

My uncle has an extremely large bungalow which has six bedrooms, five bathrooms and four living rooms.

- a. enormous
 - b. meagre
 - c. great
 - d. oversize
-

66. Select the most appropriate meaning of the underlined idiom in the given sentence. (+2, -0.5)

sentence.

Siraj-ud Daula's defeat can be attributed to a snake in the grass.

- a. A devoted attendant
 - b. A disloyal soldier
 - c. A deceitful person
 - d. A coiled serpent
-

67. Select the most appropriate option to fill in the blank. (+2, -0.5)

He is an absolutely _____ man.

- a. chased
 - b. chaste
 - c. chest
 - d. crazed
-

68. Select the most appropriate ANTONYM of the bracketed word to fill in the blank. (+2, -0.5)

The medicine was so _____ (sweet) that a man had to choose sugar along with it.

- a. rancid
 - b. sour
 - c. stale
 - d. fetid
-

69. Select the option in which all the words are spelt correctly. (+2, -0.5)

- a. The sage preached that we are accountable to God in this life.
- b. The sage preached that we are akountable to God in this life.
- c. The sage preached that we are accuountable to God in this life
- d. The sage preached that we are accountale to God in this life.

70. Select the most appropriate option to fill in the blank. (+2, -0.5)

He indeed is intelligent who _____ this and succeeds in making all work truly great.

- a. was noticed
- b. noticed
- c. notices
- d. noticing

71. Select the INCORRECTLY spelt word. (+2, -0.5)

- a. Skulptor
- b. Miraculous
- c. Vision
- d. Succeed

72. Select the most appropriate synonym of the given word. (+2, -0.5)

Ideal

- a. Excellent
 - b. Hefty
 - c. Bad
 - d. Intact
-

73. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'. (+2, -0.5)

I visited the hospital to enquire about eyes surgery.

- a. enquire about eye surgery
 - b. enquire for eyes surgery
 - c. enquired about eye surgery
 - d. No substitution
-

74. Select the most appropriate meaning of the given idiom. (+2, -0.5)

To call in question

- a. Show indifference
 - b. Take a resolute stand
 - c. Challenge
 - d. Dislike the arrangement
-

75. Complete the sentence using correct pair of words from the options given. (+2, -0.5)

My brother _____ apples during his fast.

- a. ate; eight
- b. eight; eight
- c. ate; ate
- d. eight; ate

76. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a (1) _____ dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet (2) _____ needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.

Select the most appropriate option to fill in blank number 1.

- a. restless
- b. crest
- c. less

d. dress

77. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a (1) _____ dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet (2) _____ needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.

Select the most appropriate option to fill in blank number 2.

- a. controversial
- b. various
- c. rare
- d. handle

78. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a (1) _____ dependence on paper. It is said that to make a ton of paper 17

trees have to be cut down. With the already existing demand for paper to meet (2) _____ needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.

Select the most appropriate option to fill in blank number 3.

- a. planning
- b. increasing
- c. contriving
- d. depriving

79. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a (1) _____ dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet (2) _____ needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.

Select the most appropriate option to fill in blank number 4.

- a. traction
- b. reduction
- c. induction
- d. gumption

80. **Direction:** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+2, -0.5)

One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a (1) _____ dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet (2) _____ needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.

Select the most appropriate option to fill in blank number 5.

- a. fliers
- b. magazines
- c. newspapers
- d. canvas

Answers

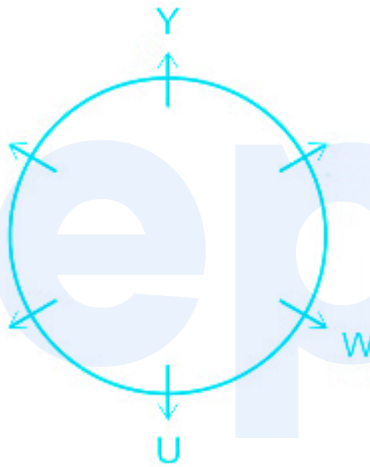
1. Answer: a

Explanation:

Given: Six people U, V, W, X, Y, and Z are sitting in a circle facing opposite to the centre.

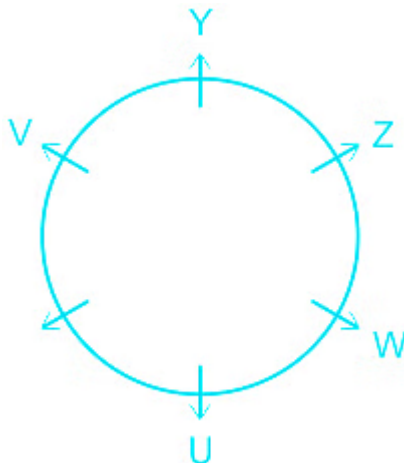
1) U is sitting third to the right of Y.

2) W is sitting to the immediate left of U.

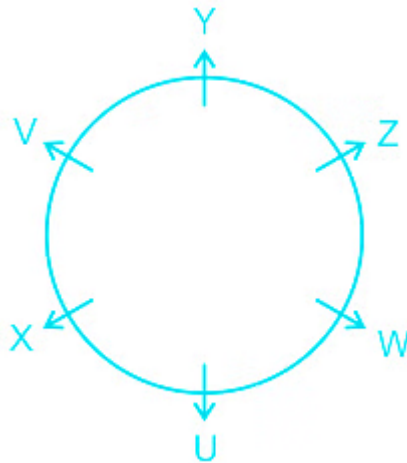


3) W is sitting third to the left of V.

4) Z is not sitting next to U.



And, X will sit on the remaining position.



So, 'Z' is sitting between W and Y.

Hence, the correct answer is "Option 1".

2. Answer: a

Explanation:

The correct dictionary order for the give words are:

1) kind

5) kindle

4) king

2) kite

3) knit

So, the correct sequence is '1, 5, 4, 2, 3'.

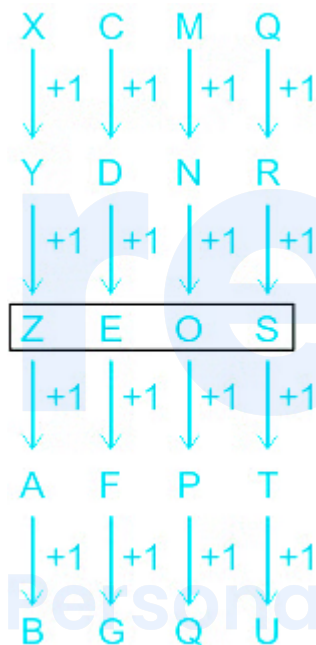
Hence, the correct answer is "Option 1".

3. Answer: d

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:



So, 'ZEO S' will replace the question mark in the given series.

Hence, the correct answer is "ZEOS".

4. Answer: c

Explanation:

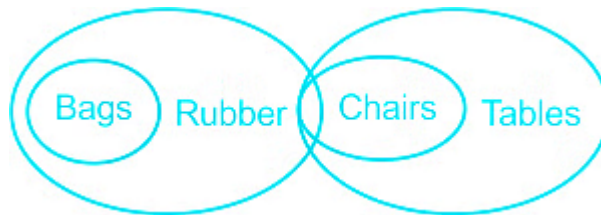
Given Statements:

All bags are rubber.

Some rubber are chairs.

All chairs are tables.

The least possible Venn diagram for the given statement is:



Conclusions:

- I. Some rubber are bags - **True** (All bags are rubber also gives some rubber are bags).
- II. Some chairs are rubber - True (Some rubber are chairs also gives Some chairs are rubber).
- III. Some chairs are tables - True (All chairs are tables also gives some chairs are tables)

So, All conclusions follow.

Hence, the correct answer is "Option 3".

5. Answer: a

Explanation:

Given equation: $144 - 12 + 18 \times 6 \div 24 = 96$.

BODMAS Table:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Let's check each option one by one.

Option 1) - and ÷

Given: $144 - 12 + 18 \times 6 \div 24 = 96$

After interchanging the numbers we get;

$\Rightarrow 144 \div 12 + 18 \times 6 - 24 = 96$

$\Rightarrow 12 + 18 \times 6 - 24 = 96$

$\Rightarrow 12 + 108 - 24 = 96$

$\Rightarrow 120 - 24 = 96$

$\Rightarrow 96 = 96$

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

Option 2) - and ×

Given: $144 - 12 + 18 \times 6 \div 24 = 96$

After interchanging the numbers we get;

$\Rightarrow 144 \times 12 + 18 - 6 \div 24 = 96$

$\Rightarrow 144 \times 12 + 18 - 0.25 = 96$

$\Rightarrow 1728 + 18 - 0.25 = 96$

$\Rightarrow 1746 - 0.25 = 96$

$$\Rightarrow 1745.75 \neq 96$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 3) \times and \div

$$\text{Given: } 144 - 12 + 18 \times 6 \div 24 = 96$$

After interchanging the numbers we get;

$$\Rightarrow 144 - 12 + \underline{18 \div 6} \times 24 = 96$$

$$\Rightarrow 144 - 12 + \underline{3 \times 24} = 96$$

$$\Rightarrow \underline{144} - 12 + \underline{72} = 96$$

$$\Rightarrow \underline{216} - 12 = 96$$

$$\Rightarrow 204 \neq 96$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 4) $-$ and $+$

$$\text{Given: } 144 - 12 + 18 \times 6 \div 24 = 96$$

After interchanging the numbers we get;

$$\Rightarrow 144 + 12 - 18 \times \underline{6 \div 24} = 96$$

$$\Rightarrow 144 + 12 - \underline{18 \times 0.25} = 96$$

$$\Rightarrow \underline{144 + 12} - 4.5 = 96$$

$$\Rightarrow \underline{156} - 4.5 = 96$$

$$\Rightarrow 151.5 \neq 96$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Hence, the correct answer is "Option 1".

6. Answer: c

Explanation:

Family Chart:

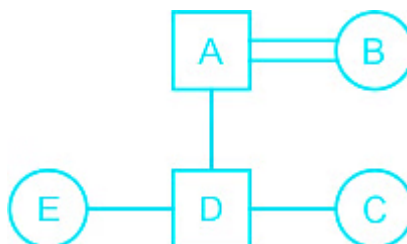
Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

Decoding the Symbols:

Symbol	+	-	%	&
Meaning	Brother	Sister	Daughter	Wife

Given: $A \& B \% C + D - E$

It means: B is the wife of A, C is the daughter of B, D is the brother of C, E is the sister of D.



Here, E is the 'Daughter' of A.

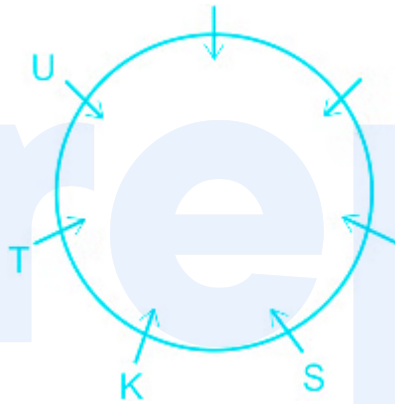
Hence, the correct answer is "Option 3".

7. Answer: a

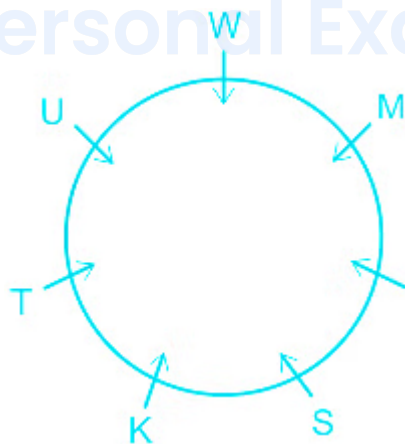
Explanation:

Given: Seven friends are sitting around a circular table facing the centre.

- 1) S is sitting immediate right of K.
- 2) T is an immediate neighbour of K and U.



- 3) W is an immediate neighbour of U and M.



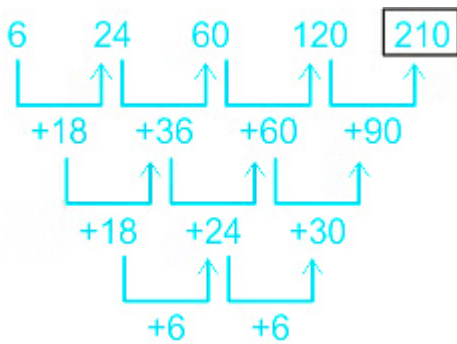
So, 'W' is sitting third to the left of K.

Hence, the correct answer is "Option 1".

8. Answer: d

Explanation:

The logic followed here is:



So, '210' will complete the series.

Hence, the correct answer is "Option 4".

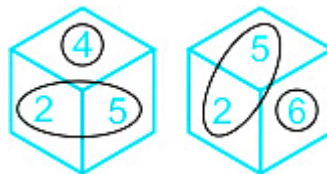
9. Answer: c

Explanation:

For find the opposite surface of '2', we need to compare the common surface in the given dices,

Now, '2' and '5' is the common number given in Dice 1 and Dice 3,

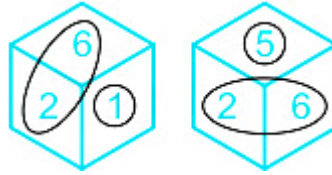
So, From Dice 1 and Dice 3,



From, Dice 1 and 3, we get: 4 is the opposite number of 6.

And, '2' and '6' is the common number given in Dice 2 and Dice 3,

So, From Dice 2 and Dice 3,



From, Dice 2 and 3, we get: 1 is the opposite number of 5.

So, the remaining '3' will be the opposite number of '2'.

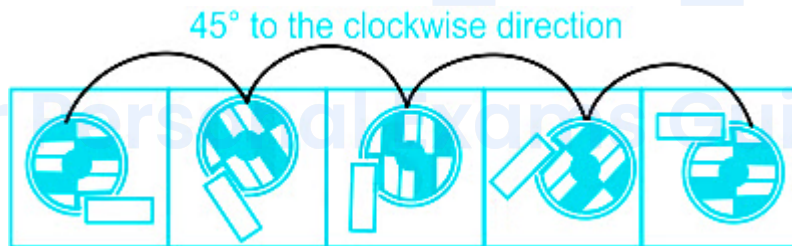
Hence, the correct answer is "3".

10. Answer: c

Explanation:

The logic followed here is:

Logic: The images are rotated 45 degree in the clockwise direction to get the next image.



Hence, the correct answer is "Option 3".

11. Answer: d

Explanation:

The logic followed here is:

Logic: The second word is a component or part of the first word.

Here,

Kite : Claw → A claw is a component of a kite. (Claw here refers to the claw or hook used to attach the kite string to the kite.)

Similarly,

Horse : Hoof → Hoof is a component of a horse.

Hence, the correct answer is "Hoof".

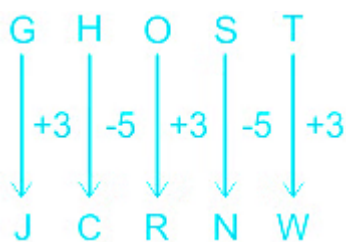
12. Answer: a

Explanation:

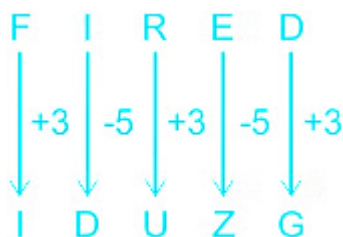
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, 'GHOST' is written as 'JCRNW',



For, 'FIRED' is written as 'IDUZG',



Similarly, for 'RIFLE'



So, 'RIFLE' is coded as 'UDIGH'.

Hence, the correct answer is "Option 1".

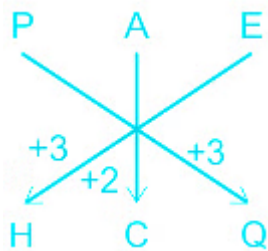
13. Answer: a

Explanation:

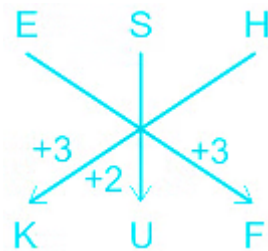
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

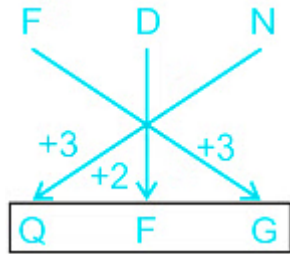
For, PAE : HCQ



For, ESH: KUF



Similarly, for FDN : ?



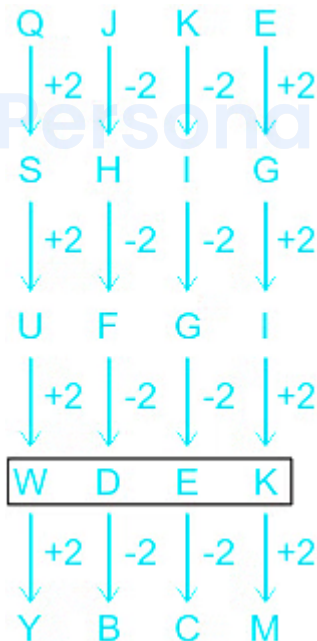
Hence, the correct answer is "Option 1".

14. Answer: d

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:



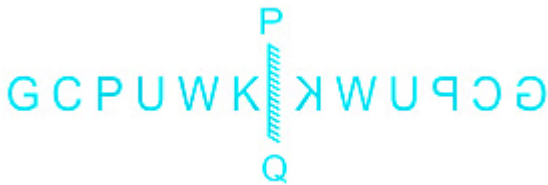
So, 'WDEK' will replace the question mark in the given series.

Hence, the correct answer is "WDEK".

15. Answer: a

Explanation:

The correct mirror image is shown below:



Hence, the correct answer is "Option 1".

16. Answer: b

Explanation:

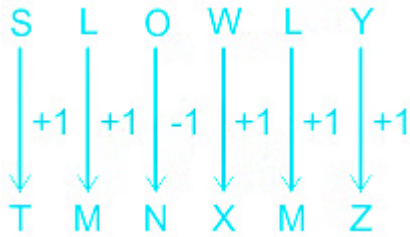
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

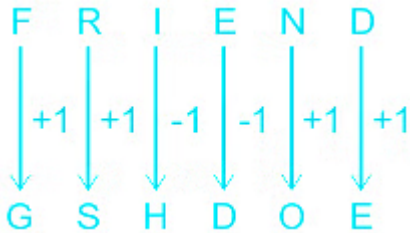
Consonant + 1,

Vowel - 1.

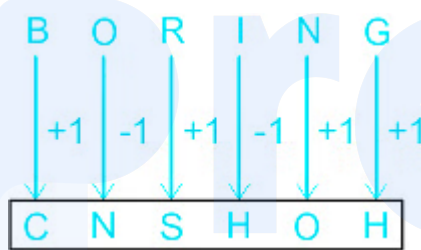
For, 'SLOWLY' is written as 'TMNXMZ',



For, 'FRIEND' is written as 'GSHDOE',



Similarly, for 'BORING'











So, 'BORING' will be written as 'CNSHOH'.

Hence, the correct answer is "Option 2".

17. Answer: b

Explanation:

The image embedded in given figure is as shown below:

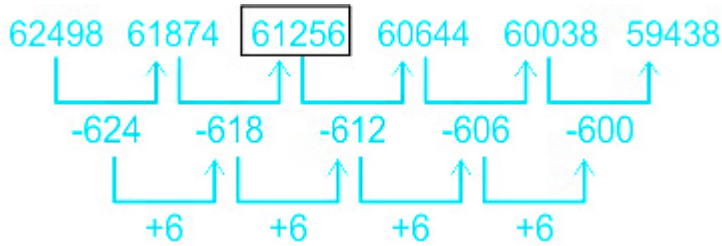
No.	Option	Question	Answer
1.			Not Embedded
2.			Embedded
3.			Not Embedded
4.			Not Embedded

Hence, "Option 2" is the correct answer.

18. Answer: a

Explanation:

The logic followed here is:



So, '61256' will complete the series.

Hence, the correct answer is "Option 1".

19. Answer: c

Explanation:

The logic followed here is:

Logic: (1st number + 3rd number) \times 3 = 2nd number.

Now,

For (11, 78, 15)

$$\rightarrow (11 + 15) \times 3$$

$$\rightarrow 26 \times 3 = 78.$$

For (12, 90, 18)

$$\rightarrow (12 + 18) \times 3$$

$$\rightarrow 30 \times 3 = 90.$$

Similarly, for (13, 96, 19)

$$\rightarrow (13 + 19) \times 3$$

$$\rightarrow 32 \times 3 = 96.$$

Hence, the correct answer is "Option 3".

20. Answer: b

Explanation:

Given equation: $10 * 18 * 19 * 2 * 1 * 217$.

BODMAS Table:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (+)	विभाजन (+)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Let's check each option one by one.

Option 1) $\times, +, \times, +, =$

Given: $10 * 18 * 19 * 2 * 1 * 217$

After replacing the * signs we get;

$$\Rightarrow 10 \times 18 + 19 \times 2 + 1 = 217$$

$$\Rightarrow 180 + 38 + 1 = 217$$

$$\Rightarrow 219 \neq 217$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 2) $\times, +, \times, -, =$

Given: $10 * 18 * 19 * 2 * 1 * 217$

After replacing the * signs we get;

$$\Rightarrow 10 \times 18 + 19 \times 2 - 1 = 217$$

$$\Rightarrow \underline{180 + 38} - 1 = 217$$

$$\Rightarrow \underline{218 - 1} = 217$$

$$\Rightarrow 217 = 217$$

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

Option 3) $\times, +, -, -, =$

$$\text{Given: } 10 * 18 * 19 * 2 * 1 * 217$$

After replacing the * signs we get;

$$\Rightarrow \underline{10 \times 18} + 19 - 2 - 1 = 217$$

$$\Rightarrow \underline{180 + 19} - 2 - 1 = 217$$

$$\Rightarrow 199 - \underline{2 - 1} = 217$$

$$\Rightarrow \underline{199 - 3} = 217$$

$$\Rightarrow 196 \neq 217$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 4) $+, +, \times, -, =$

$$\text{Given: } 10 * 18 * 19 * 2 * 1 * 217$$

After replacing the * signs we get;

$$\Rightarrow 10 + 18 + \underline{19 \times 2} - 1 = 217$$

$$\Rightarrow \underline{10 + 18 + 38} - 1 = 217$$

$$\Rightarrow \underline{66 - 1} = 217$$

$$\Rightarrow 65 \neq 217$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Hence, the correct answer is "Option 2".

21. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- The Government of India has recently sanctioned a new Central Sector Scheme called the "National Beekeeping & Honey Mission (NBHM)" for a duration of two years.
- The primary objective of this mission is to promote and develop scientific beekeeping on a nationwide scale, with the ultimate goal of sparking a "Sweet Revolution" in the country.
- The mission will focus on various key aspects such as capacity building, training programs, empowering women in beekeeping, providing input support for production, establishing Integrated Beekeeping Development Centres (IBDCs) and other necessary infrastructures, facilitating digitization and online registration processes, promoting processing and value addition, and extending market support.
- The scheme aims to encompass all these elements to foster the growth and advancement of beekeeping in India.

22. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- Jet streams are narrow bands of strong high-altitude winds that flow in the upper troposphere and lower stratosphere, typically between 9 to 16 kilometers (5.5 to 10 miles) above the Earth's surface.

- They are characterized by **high wind speeds**, often exceeding **100 kilometers per hour (60 miles per hour)**, and have a significant impact on **weather patterns**.
- The **jet streams** are predominantly **westerly winds**, meaning they flow from **west to east**.
- They are caused by the **temperature** contrast between the **polar regions** and the **equator**.
- The **temperature difference** creates a **pressure gradient**, and the **Coriolis** effect further influences the **wind patterns**, leading to the **formation of jet streams**.
- The speed of **jet streams** can vary depending on the **season and location**.

★ Additional Information

- **Whirlwind:**
 - A whirlwind is a weather phenomenon characterized by a rotating column of air.
 - Whirlwinds can occur at various scales, from small tornado-like vortices to larger dust devils.
- **Derecho:**
 - A derecho is a widespread and long-lived severe weather event characterized by a straight-line windstorm.
 - It typically forms along the leading edge of a rapidly moving thunderstorm complex, known as a squall line
- **Hurricane:**
 - A hurricane is a large tropical cyclone with organized thunderstorms and sustained winds of at least **119 km/h (74 mph)**.
 - Hurricanes form over warm ocean waters and are characterized by a well-defined eye at the center, surrounded by a rotating system of rainbands.

23. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- India launched its **First Five-Year Plan** in 1951.
- The plan was formulated by the **Planning Commission**, which was set up by the **Government of India in 1950** to formulate and implement **economic policies** and **development plans**.
- **The First Five-Year Plan** aimed to achieve rapid **industrialization** and **economic growth** in India.
- The plan focused on **agriculture, irrigation, power, transport, and communication sectors**, which were considered crucial for the overall development of the country.

★ Additional Information

- The **objectives** of the **First Five-Year Plan** were:
 - Increase agricultural production and achieve food self-sufficiency
 - Develop basic infrastructure like roads, railways, and ports
 - Expand and modernize industries, particularly in the manufacturing sector
 - Reduce unemployment and poverty
 - Improve living standards and social welfare
 - Enhance education and healthcare facilities
 - The plan emphasized the importance of public investment and the role of the government in driving economic development
 - It aimed to allocate resources efficiently, promote balanced regional development, and reduce income disparities

24. Answer: b

Explanation:

The correct answer is Option 2,

★ Key Points

- **Sonal Mansingh**, an eminent **Indian classical dancer**, was indeed the youngest recipient of the **Padma Vibhushan** in 2003.

- She received this **prestigious award** for her significant contributions to the field of dance.

★ Additional Information

- **Uday Shankar:**
 - Uday Shankar was an influential Indian dancer and choreographer.
 - He is considered one of the pioneers of modern Indian dance.
 - While he received numerous accolades for his contributions to the field of dance, including the **Padma Shri in 1954**, the **Padma Vibhushan, which is the second-highest civilian award in India, was not conferred upon him in 2003.**
- **Pandit Birju Maharaj :**
 - **Pandit Birju Maharaj** is a celebrated **Kathak dancer and choreographer in India.**
 - He comes from a lineage of distinguished Kathak dancers and has played a crucial role in popularizing this classical dance form worldwide. While **Pandit Birju Maharaj** has received numerous accolades, including the Padma Vibhushan, he did not receive it in **2003.**
- **Kelucharan Mohapatra:**
- **Kelucharan Mohapatra** was a renowned **Odissi dancer and guru.**
- He played a crucial role in reviving and popularizing the **Odissi dance form.**
- While he received many prestigious awards during his lifetime, including the Padma Vibhushan, it was not conferred upon him in **2003.**

25. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- **CaCO₃:**
 - This is the correct chemical formula for **Calcium Carbonate.**

- It consists of one **calcium ion (Ca^{2+})** bonded to one **carbonate ion (CO_3^{2-})**.
- **Calcium carbonate** is a naturally occurring compound and is the main component of minerals such as **limestone, marble, and chalk**.
- It is widely used in industries such as **construction, manufacturing, agriculture, and as a dietary supplement**.

★ Additional Information

- **CaSO₄:**
 - This is the chemical formula for **Calcium Sulfate**.
 - It consists of one calcium ion (**Ca²⁺**) bonded to one sulfate ion (**SO₄²⁻**).
 - **Calcium sulfate** is commonly found as the **mineral gypsum** and is used in various **applications, including construction materials and as a food additive**.
- **CaO:**
 - This is the chemical formula for **Calcium Oxide**, also known as quicklime or burnt lime.
 - It consists of one calcium ion (**Ca²⁺**) bonded to one oxygen ion (**O²⁻**).
 - Calcium oxide is a **white, caustic, alkaline crystalline solid**.
 - It is commonly used in various applications, including as a **desiccant, in cement production**, and as a component in certain chemical processes.

26. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- **Vitamin B1:**
 - **Vitamin B1** is also known as **Thiamin**, as mentioned earlier.
 - It is an essential vitamin that is necessary for the metabolism of **carbohydrates** into **energy**.
 - **Thiamin** also plays a crucial role in **nerve function, muscle function, and the proper functioning of the heart**.

- It is important for maintaining a **healthy nervous system** and overall **energy production in the body**.

★ Additional Information

- **Vitamin B2:**
 - **Vitamin B2** is also known as **Riboflavin**.
 - It is an essential vitamin that plays a crucial role in **energy production, metabolism of fats, carbohydrates, and proteins, and maintenance of healthy skin, eyes, and nervous system**.
 - It is involved in the conversion of food into energy and acts as an **antioxidant in the body**.
- **Vitamin B3 :**
 - **Vitamin B3** is also known as **Niacin**.
 - It is an important nutrient that helps the body convert food into energy, **metabolize fats and proteins, and maintain healthy skin, nerves, and digestive system**.
 - **Niacin** is also known for its role in **cholesterol regulation** and is often used to treat high cholesterol levels.
- **Vitamin B12:**
 - **Vitamin B12**, also known as **Cobalamin**, is a **water-soluble vitamin** that is essential for the formation of **red blood cells, neurological function, and DNA synthesis**.
 - It is primarily found in **animal-based foods**, and deficiency in **B12** can lead to **anemia** and **neurological problems**.
 - **Vitamin B12** is important for maintaining **healthy blood cells** and supporting the proper functioning of the nervous system.

27. **Answer: d**

Explanation:

The correct answer is Option 4.

★ Key Points

- **BD Mishra** on **October 4** took oath as the **new governor of Meghalaya** at a function in the **Raj Bhavan in Shillong**.
- **BD Mishra**, the former brigadier of the **Indian Army**, has been serving as the **Arunachal Pradesh governor since 2017**.
- He has been given the additional charge of neighbouring **Meghalaya**.
- He succeeded **Satya Pal Malik** who completed his term as the **Meghalaya governor on October 3**.
- Assembly Speaker **Metbah Lyngdoh** and senior cabinet ministers were present at the function.

★ Additional Information

- Unlike many Indian states, **Meghalaya** has historically followed a matrilineal system where the **lineage and inheritance** are traced through women; the youngest daughter inherits all wealth and she also takes care of her parents.
- The state is the **wettest region of India**, with the wettest areas in the southern Khasi Hills recording an average of **12,000 mm** of rain a year.

28. **Answer: a**

Explanation:

The correct answer is Option 1.

★ Key Points

- The **Gandhi-Irwin Pact**, also known as the **Delhi Pact**, was signed on **March 5, 1931**.
- It was an agreement between **Mahatma Gandhi**, the leader of the **Indian National Congress**, and **Lord Irwin**, the then **Viceroy of India**, representing the **British government**.
- The pact marked a significant step in **India's struggle for independence** from **British rule** and initiated a dialogue between the **Indian National Congress** and the **British government**.

★ Additional Information

- During the Gandhi era, which spanned roughly from the early **1910s to the mid-1940s**, Gandhi led several major movements and campaigns against British rule.
- His most notable contributions include:
 - **Champaran and Kheda Satyagraha:** In **1917**, Gandhi launched his first successful Satyagraha campaign in Champaran, Bihar, to protest against the oppressive indigo plantation system.
 - **Noncooperation Movement:** In **1920**, Gandhi initiated the Noncooperation Movement, calling for Indians to boycott British institutions and goods.
 - **Salt March:** In **1930**, Gandhi undertook the famous Salt March (also known as the Dandi March) as a protest against the British salt monopoly.
 - **Quit India Movement:** In **1942**, Gandhi launched the **Quit India Movement**, demanding an end to British rule in India.
 - Gandhi's leadership and philosophy of nonviolence inspired millions of Indians to join the freedom struggle. He advocated for social and economic reforms, gender equality, communal harmony, and the eradication of untouchability.
 - The Gandhi era culminated in India's independence on **August 15, 1947**.

29. **Answer: a**

Explanation:

The correct answer is Option 1.

★ **Key Points**

- A budget document that deals with the revenue receipts (income) and revenue expenditure (expenses) of the government for a specific financial year is called the "**Revenue budget**."
- It focuses on the day-to-day operations and expenses of the government, including items such as **salaries, subsidies, maintenance costs, and other operational expenses**.
- The revenue budget does not include **capital expenditures or long-term investments**, which are covered in the **capital budget**.

- The term "**Zero budget**" refers to a budgeting approach where each expense must be justified, starting from zero, rather than using past budgets as a reference.
- A "**Long term budget**" typically refers to a budget that covers an extended period, often several years.

30. Answer: c

Explanation:

The correct answer is Option 3.

★ Key Points

- **The Constitution of India** has **395 articles** contained in **22 parts**.
- It also has **12 schedules**.
- Since its adoption in **26 November, 1949**, the constitution has been amended for about **103 times**.
- The total number of Amendment Bills that have been introduced till now in parliament is **126**.

★ Additional Information

- **The Indian Constitution** is the **supreme law of India**.
- It was adopted by the Constituent Assembly of **India** on **26th November 1949** and came into effect on **26th January 1950**, replacing the **Government of India Act (1935)** as the governing document of India.
- Here are some basic features and principles of the Indian Constitution:
 - **Preamble:** The Constitution begins with a Preamble that outlines the ideals and objectives of the Indian Constitution, including justice, liberty, equality, and fraternity.
 - **Federal System with Unitary Features:** India follows a federal system of government, where power is divided between the central government and the states.
 - **Parliamentary System:** India has a parliamentary form of government, where the President is the head of state, and the Prime Minister is the

head of government.

- **Fundamental Rights:** The Constitution guarantees certain fundamental rights to all citizens of India, such as the right to equality, right to freedom of speech and expression, right to protection from discrimination, right to life and personal liberty, and right to constitutional remedies.
- **Directive Principles of State Policy:** The Constitution includes a set of Directive Principles of State Policy, which are non-justiciable in nature.
- **Fundamental Duties:** The Constitution also lays down certain fundamental duties of citizens, which include respecting the Constitution, promoting harmony, safeguarding public property, and preserving the country's heritage.
- **Independent Judiciary:** India has an independent judiciary, which acts as the guardian of the Constitution.
- **Secularism:** The Indian Constitution declares India as a secular nation, ensuring equal treatment of all religions.
- **Universal Adult Franchise:** The Constitution provides for universal adult suffrage, granting every citizen above the age of 18 the right to vote, regardless of gender, caste, religion, or socioeconomic status.
- **Amendments:** The Constitution provides a mechanism for its amendment to adapt to changing circumstances.

31. Answer: a

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Explanation:

The correct answer is Dharmendra Pradhan.

★ Key Points

- **Dharmendra Pradhan** is the present Education Minister of India.
- Dharmendra Pradhan is an Indian politician serving as the **Minister of Education and Minister of Skill Development and Entrepreneurship in the Government of India**.
- He has also been the **Minister of Petroleum & Natural Gas and Minister of Steel**.

★ Additional Information

Important Cabinet Ministers:

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Shri Rajnath Singh	Ministry of Defence
Shri Nitin Jairam Gadkari	1. Ministry of Road Transport and Highways
Shri Narayan Tatu Rane	Ministry of Micro, Small and Medium Enterprises
Smt. Nirmala Sitharaman	1. Ministry of Finance 2. Ministry of Corporate Affairs
Shri Narendra Singh Tomar	1. Ministry of Agriculture & Farmers Welfare
Shri Sarbananda Sonowal	1. Ministry of Ports, Shipping and Waterways 2. Ministry of AYUSH
Dr. Virendra Kumar	Ministry of Social Justice and Empowerment
Dr. Subrahmanyam Jaishankar	Ministry of External Affairs
Shri Ramchandra Prasad	Ministry of Steel
Shri Arjun Munda	Ministry of Tribal Affairs
Smt. Smriti Zubin Irani	1. Ministry of Women and Child Development
Mansukh Mandaviya	1. Ministry of Health and Family Welfare

	2. Ministry of Chemical Fertilizers
Shri Ashwini Vaishnav	<ol style="list-style-type: none"> 1. Ministry of Railways 2. Ministry of Communications 3. Ministry of Electronics and Information Technology
Shri Piyush Goyal	<ol style="list-style-type: none"> 1. Ministry of Textiles 2. Ministry of Commerce and Industry 3. Ministry of Consumer Affairs, Food and Public Distribution
Shri Dharmendra Pradhan	<ol style="list-style-type: none"> 1. Ministry of Education 2. Ministry of Skill Development and Entrepreneurship
Smriti Irani	Ministry of Minority Affairs
Shri Pralhad Joshi	<ol style="list-style-type: none"> 1. Ministry of Parliamentary Affairs 2. Ministry of Coal 3. Ministry of Mines
Shri Jyotiraditya M. Scindia	Ministry of Civil Aviation

Shri Giriraj Singh	<ol style="list-style-type: none"> 1. Ministry of Rural Development 2. Ministry of Panchayati Raj
Shri Gajendra Singh Shekhawat	Ministry of Jal Shakti
Shri Pashu Pati Kumar Paras	Ministry of Food Processing Industries
Shri Kiren Rijju	Ministry of Law and Justice
Shri Raj Kumar Singh	<ol style="list-style-type: none"> 1. Ministry of Power 2. Ministry of New and Renewable Energy
Shri Hardeep Singh Puri	<ol style="list-style-type: none"> 1. Ministry of Petroleum and Natural Gas 2. Ministry of Housing and Urban Affairs
Shri Bhupender Yadav	<ol style="list-style-type: none"> 1. Ministry of Environment, Forest and Climate Change 2. Ministry of Labour and Employment
Dr. Mahendra Nath Pandey	Ministry of Heavy Industries
Shri Parshottam Rupala	Ministry of Fisheries, Animal Husbandry and Dairying
Shri G. Kishan Reddy	<ol style="list-style-type: none"> 1. Ministry of Culture 2. Ministry of Tourism

	3. Ministry of Development of North Eastern Region
32. Answer: b Shri Anurag Singh Thakur	1. Ministry of Information and Broadcasting 2. Ministry of Youth Affairs and Sports

Explanation:

The correct answer is Puducherry.

★ Key Points

- Puducherry has the **highest sex ratio of 1037 females to every 1000 males**.
- As per the **2011 census, India has 943 females per 1000 males**.
- **Puducherry:**
 - Puducherry, a **French colonial settlement in India until 1954**, is now a **Union Territory town** bounded by the southeastern Tamil Nadu state.
 - Pondicherry is **synonymous with the Aurobindo Ashram**, founded by **Sri Aurobindo and Mirra Alfassa in 1926**.

★ Additional Information

- **The top five states/Union territories which have the highest sex ratio are-**
 - Kerela (1,084)
 - **Puducherry (1,038),**
 - Tamil Nadu (995),
 - Andhra Pradesh (992) and
 - Chhattisgarh (991).
- **The five Union territories which have the lowest sex ratio are:**
 - Daman & Diu (618),
 - Dadra & Nagar Haveli (775),
 - Chandigarh (818),
 - NCT of Delhi (866) and
 - Andaman & Nicobar Islands (878).

33. Answer: a

Explanation:

The correct answer is Bestu Varsh.

★ Key Points

- Gujarati New Year or **Bestu Varsh** was celebrated on **26 October 2022**.
- The Gujarati New Year is also known as **Vikram Sanvat 2079**.
- Homes are decorated with Asopalav torans and marigold flowers.
- On this auspicious day, businessmen and traders start their new account books after closing the old ones.

★ Additional Information

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Festival	States
Diwali	All over India, especially North India (Uttar Pradesh, Punjab, Haryana)
Holi	All over India, especially Uttar Pradesh, Bihar, Rajasthan, and West Bengal
Navratri/Durga Puja	West Bengal, Gujarat, Assam, Odisha
Ganesh Chaturthi	Maharashtra, Karnataka, Telangana, Andhra Pradesh
Eid-ul-Fitr	All over India, especially in Muslim-majority states like Jammu and Kashmir, West Bengal, Kerala
Raksha Bandhan	All over India, especially North India (Uttar Pradesh, Bihar, Rajasthan)
Janmashtami	All over India, especially Uttar Pradesh, Maharashtra, Gujarat, West Bengal
Durga Puja	West Bengal, Assam, Tripura, Odisha
Pongal	Tamil Nadu, Andhra Pradesh, Telangana
Onam	Kerala, Tamil Nadu, Karnataka
Baisakhi	Punjab, Haryana, Himachal Pradesh
Lohri	Punjab, Haryana, Himachal Pradesh
Makar Sankranti	All over India, especially Gujarat, Maharashtra, Rajasthan, West Bengal
Christmas	All over India, especially in Christian-majority states like Goa, Kerala, Nagaland
Eid-ul-Adha	All over India, especially in Muslim-majority states like Jammu and Kashmir, Uttar Pradesh, West Bengal
Maha Shivaratri	All over India, especially Uttar Pradesh, Madhya Pradesh, Andhra Pradesh

Festival	States
Bihu	Assam, Arunachal Pradesh
Vishu	Kerala, Karnataka, Tamil Nadu
Puthandu/Tamil New Year	Tamil Nadu, Puducherry
Karva Chauth	All over India, especially North India (Punjab, Haryana, Rajasthan)
Dussehra	All over India, especially North India (Uttar Pradesh, Punjab, Haryana)
Lohri	Punjab, Haryana, Himachal Pradesh
Mahavir Jayanti	All over India, especially Rajasthan, Gujarat, Maharashtra
Eid-e-Milad	All over India, especially in Muslim-majority states like Jammu and Kashmir, Uttar Pradesh, West Bengal

34. Answer: d

Explanation:

The correct answer is Sugar cane.

★ Key Points

- Sugar cane is the primary raw material for the sugar industry.
- Sugar cane is a tropical, perennial grass that forms lateral shoots at the base to produce multiple stems, typically three to four meters high and about five cm in diameter.
- Its composition varies depending upon the climate, soil type, irrigation, fertilizers, insects, disease control, varieties, and the harvest period.

★ Additional Information

- Sugar cane cultivation requires a tropical or subtropical climate, with a minimum of 60 cm (24 in) of annual moisture.
- It is one of the most efficient photosynthesizers in the plant kingdom. It is a C4 plant, able to convert up to 1% of incident solar energy into biomass.
- In prime growing regions, such as Mauritius, Dominican Republic, Puerto Rico, India, Guyana, Indonesia, Pakistan, Peru, Brazil, Bolivia, Colombia, Australia, Ecuador, Cuba, the Philippines, El Salvador, and Hawaii, sugar cane crops can produce over 15% of the total world's sugar production.
- Other important sugar crops include sugar beet, sweet sorghum, honey, and corn sugar.
- The types of sugar used today are white sugar (fully refined sugar), composed of clear, colorless or crystal fragments; or brown sugar, which is less fully refined and contains a greater amount of treacle residue.

35. Answer: b

Explanation:

The correct answer is Sattriya.

★ Key Points

- The great Assamese reformer and Vaishnava saint Mahapurusha Sankaradeva established the Sattriya dancing style in the 15th century A.D. as a potent means of spreading the Vaishnava religion.
- It is one of India's eight classical dance genres.
- Sankaradeva created this dance style by fusing ideas from numerous treatises with popular dance styles, regional folk dances, and his own unique perspective.
- The Sattriya dance is a blatant example of how the former influenced the latter.
- Bihu, Bodos, and other Assamese folk dances are other clearly discernible influences on Sattriya dance.
- These dancing styles have very similar hand movements and rhythmic syllables.

★ Additional Information

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Dance Form	Originating State
Bharatanatyam	Tamil Nadu
Kathak	Uttar Pradesh
Kathakali	Kerala
Odissi	Odisha
Manipuri	Manipur
Kuchipudi	Andhra Pradesh
Mohiniyattam	Kerala
Sattriya	Assam
Yakshagana	Karnataka
Chhau	Odisha, West Bengal, Jharkhand
Kathakali	Kerala
Gaudiya Nritya	West Bengal
Odissi	Odisha
Kuchipudi	Andhra Pradesh
Bharatanatyam	Tamil Nadu
Kathak	Uttar Pradesh
Mohiniyattam	Kerala
Kathakali	Kerala
Manipuri	Manipur
Sattriya	Assam
Yakshagana	Karnataka

Dance Form	Originating State
Chhau	Odisha, West Bengal, Jharkhand
Kathakali	Kerala
Gaudiya Nritya	West Bengal

36. Answer: b

Explanation:

The correct answer is Kolkata.

★ Key Points

- Established on **15th August 1889**, Mohun Bagan Athletic Club is one of the oldest clubs in India & Asia.
- It is situated in Kolkata.
- It created history in **1911** by becoming the **first Indian team to win IFA Shield**, an event that has been closely linked with Indian nationalism.
- Mohun Bagan football team has won National League/I-League five times and Federation Cup a record fourteen times.
- The club also has a rich history in other sports like cricket and hockey.

★ Additional Information

- Football:
 - Team members - **11 per side**
 - Highest governing body - **FIFA**
 - Nicknames
 - **World Game**
 - **The Beautiful Game**

37. Answer: b

Explanation:

The correct answer is Qatar.

★ Key Points

- FIFA World Cup 2022 played from 21 November 2022 to 18 December 2022 in Qatar.
- There is a total of 32 teams participated in World Cup.
- The 2022 FIFA World Cup (international men's football championship) is organized in Arab countries for the first time.
- The first and opening match of the FIFA World Cup is played at Al Bayt Stadium.
- The FIFA World Cup final match was held on 18 December 2022 at the Lusail Iconic Stadium.

★ Additional Information

- Argentina lifted the FIFA World Cup Football title for the third time, after beating defending Champion France 4-2 on penalties following a dramatic 3-3 draw in extra time in one of the most thrilling finals at the Lusail Iconic Stadium in Qatar.
- **Lionel Messi clinched the Golden Ball** award for the best player at the Fifa World Cup 2022 while Mbappe took the golden boot for being the top goal-scorer and Argentina's Emiliano Martinez won the Golden Glove for being the best goalkeeper.
- **Lionel Messi and Kylian Mbappe came into the final with 5 goals each.**
- But the 23-year-old France forward finished the tournament with eight goals after the first World Cup Final hat-trick since 1966.
- **Kylian Mbappé technically becomes France's first-ever Golden Boot winner.**
- Just Fontaine led the scoring at the 1958 World Cup with a record 13 goals, but the Golden Boot, originally the Golden Shoe wasn't officially introduced until 1982.

38. Answer: a

Explanation:

The correct answer is Impeachment.

★ Key Points

- The removal of India's President is done through the process of Impeachment.
- Article 61 of the Indian constitution provides the procedure of impeachment of the President.

★ Additional Information

- President can be impeached for violation of the Constitution.
- The impeachment can be initiated in any house i.e. Upper house or lower house of the Parliament.
- The charges on the president for impeachment should be signed by one-fourth of members of the House.
- A 14-day prior notice is required to be given to the President.
- The resolution of impeachment must be passed with a majority of two-thirds of both the houses to remove the President from his office.
- The President shall be considered removed from the date on which the resolution is passed in both houses.

39. Answer: a

Explanation:

The correct answer is Seleucus Nicator.

★ Key Points

- Megasthenes was a Greek Diplomat, Historian, and ethnographer whose extensive writings about the cultures of India gave an insight into the lives of ancient Indians during the rule of Chandragupta Maurya.
- Seleucid-Mauryan War around 305 BC, Megasthenes became an ambassador for Seleucus I to the court of Chandragupta Maurya in Pataliputra.
- The compilation of Megasthenes' work is known as Indica.
- According to the writings of the Greek diplomat Megasthenes, Pataliputra, is the capital surrounded by a wooden wall pierced by 64 gates and 570 towers

that rivaled the splendors of contemporaneous Persian sites such as Susa and Ecbatana.

★ Additional Information

- The capital of the Maurya empire was **Patliputra**.
- The **founder of the Maurya** empire was Chandragupta Maurya.
- Chandragupta, with the help of an intelligent and politically astute Brahmin, Kautilya usurped the throne by defeating Dhana Nanda in 321 BC.
- His reign lasted from 321 BC to 297 BC.
- He abdicated the throne in favor of his son, Bindusara, and went to Karnataka with Jain monk Bhadrabahu. He had embraced Jainism and is said to have starved himself to death according to the Jain tradition at Shravanabelagola.

40. Answer: c

Explanation:

The correct answer is Division of land.

★ Key Points

- The right of inheritance, specifically in the context of land or property, often leads to the division of land among heirs.
- Inheritance laws differ across countries and cultures, but the common principle is the passing of property, rights, obligations, debts, and even titles upon the death of an individual.
- The division of land can sometimes lead to fragmentation, creating smaller and potentially less productive plots.
- This can have significant implications for agricultural practices and rural development.

★ Additional Information

- There are various forms of inheritance, including primogeniture (where the eldest son inherits everything), ultimogeniture (where the youngest son

inherits everything), and partible inheritance (where the property is divided among heirs).

- In some cases, laws have been enacted to prevent excessive fragmentation of agricultural land.
- For example, in India, the Land Ceiling Act sets a maximum size for agricultural holdings and prohibits their further subdivision. While the division of land is the most direct outcome of inheritance, it can indirectly contribute to other issues such as land disputes and, in some cases, may influence land use and contribute to environmental concerns.

41. Answer: c

Explanation:

Given:

Initial price of the air conditioner (P) = Rs. 46,875

Rate of depreciation (R) = 8% per year

Number of years (n) = 3

Formula used:

$$\text{Present value} = P \left(\frac{100-r}{100} \right)^n$$

Where P is the initial value,

R is the rate at which the value is decreasing annually and

n is time in years.

Calculation:

Rate of depreciation (R) = 8% = 0.08

$$\Rightarrow \text{Final value (F)} = \text{Rs. } 46,875 \times (1 - 0.08)^3$$

$$\Rightarrow \text{Final value (F)} = \text{Rs. } 46,875 \times (0.92)^3$$

$$\Rightarrow \text{Final value (F)} = \text{Rs. } 46,875 \times 0.778688$$

$$\Rightarrow \text{Final value (F)} = \text{Rs. } 36,501$$

Therefore, the price of the air conditioner after 3 years is Rs. 36,501

42. Answer: a

Explanation:

Given:

Distance covered on the first day = 240 km

Time taken on the first day = 6 hours

Distance covered on the second day = 360 km

Time taken on the second day = 8 hours

Distance covered on the third day = 450 km

Time taken on the third day = 6 hours

Concept used:

To find the average distance per hour covered by him in 3 days, we divide the total distance covered by the total time taken.

Formula used:

Average speed = Total distance / Total time

Calculation:

⇒ Total distance covered = 240 km + 360 km + 450 km = 1050 km

⇒ Total time taken = 6 hours + 8 hours + 6 hours = 20 hours

⇒ Average distance per hour = Total distance covered / Total time taken

⇒ Average distance per hour = 1050 km / 20 hours

⇒ Average distance per hour = 52.5 km/h

Therefore, the average distance per hour covered by him in 3 days is 52.5 km/h.

43. Answer: c

Explanation:

Given:

The price of onions has increased by 25%.

Due to this, a woman can buy 5 kg less for Rs. 200.

Concept Used:

Price = Total cost / Quantity bought

The difference in the quantity bought at the old and new prices equals 5 kg.

Calculation:

Let's say the initial price per kg of onions was 'X' Rs.

⇒ Then, the initial quantity bought = $200/X$ kg

⇒ The new price = 1.25X Rs/kg

So, the new quantity bought = $200/(1.25X)$ kg

⇒ Equating the difference to 5 kg:

$$\Rightarrow 200/X - 200/(1.25X) = 5$$

Solving this equation:

$$\Rightarrow 200 - 160 = 5X$$

$$\Rightarrow 40 = 5X$$

$$\Rightarrow X = 8 \text{ Rs/kg (Initial price)}$$

$$\Rightarrow \text{The increased price} = 1.25 \times X = 1.25 \times 8 = \text{Rs. } 10/\text{kg}$$

So, the increased price of onions per kg is Rs. 10.

44. Answer: a

Explanation:

Given:

First part of the journey: Distance = 600 km, Speed = 50 km/h

Second part of the journey: Distance = 100 km, Speed = 100 km/h

Third part of the journey: Distance = 50 km, Speed = 25 km/h

Concept Used:

Average speed = Total distance / Total time

Calculation:

First, we calculate the time for each part of the journey:

⇒ Time = Distance / Speed = 600 / 50 = 12 hours

⇒ Time = Distance / Speed = 100 / 100 = 1 hour

⇒ Time = Distance / Speed = 50 / 25 = 2 hours

Then we add up the total distance and total time:

⇒ Total distance = 600 km + 100 km + 50 km = 750 km

⇒ Total time = 12 hours + 1 hour + 2 hours = 15 hours

Finally, we use the formula for average speed:

⇒ Average speed = Total distance / Total time = 750 km / 15 hours = 50 km/h

Therefore, the average speed during the whole journey is 50 km/h.

45. Answer: a

Explanation:

Given:

Number of female members = 90, Average age of female members = 35 years

Number of male members = 60, Average age of male members = 45 years

Concept Used:

Average age = Total age / Number of people

Calculation:

First, calculate the total age of female members and male members:

⇒ Total age of female members = Number of female members × Average age = $90 \times 35 = 3150$ years

⇒ Total age of male members = Number of male members × Average age = $60 \times 45 = 2700$ years

⇒ Then, add up the total age and the total number of members:

⇒ Total age = Total age of female members + Total age of male members = 3150 years + 2700 years = 5850 years

⇒ Total members = Number of female members + Number of male members = $90 + 60 = 150$

Finally, use the formula for average age:

⇒ Average age = Total age / Total members = $5850 / 150 = 39$ years

Therefore, the average age of the club is 39 years.

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46. Answer: c**Explanation:**

Given:

The difference between the two numbers is 15% of their sum.

Concept Used:

Ratio and percentages

Calculation:

Let the numbers be a and b (where $a > b$). According to the problem,

$$\Rightarrow a - b = 0.15 \times (a + b)$$

Solve for a/b (the ratio of the larger number to the smaller one):

$$\Rightarrow a/b = (1 + 0.15) / (1 - 0.15)$$

$$\Rightarrow a/b = 1.15 / 0.85$$

$$\Rightarrow a/b = 23/17$$

For the ratio of the smaller number to the larger number, we need to take the reciprocal:

$$\Rightarrow b/a = 17/23$$

So, the ratio of the smaller number to the larger number is 17:23.

47. Answer: a

Explanation:

Given:

Radius (r) of the cone = 5 cm

Slant height (l) of the cone = 16 cm

Concept Used:

The formula for the total surface area (A) of a cone is given by:

$$A = \pi r(l + r)$$

Calculation:

Now, substitute the given values into the formula:

$$\Rightarrow A = \pi \times 5 (16 + 5)$$

$$\Rightarrow A = \pi \times 5 \times 21$$

$$\Rightarrow A = 105\pi \text{ cm}^2$$

$$\Rightarrow A = 105 \times \frac{22}{7} = 330\text{cm}^2$$

Therefore, the total surface area of the cone is 330cm^2

48. Answer: d

Explanation:

Given:

Ruby buys 20 buttons for Rs. 1

Desired profit = 25%

Concept Used:

Profit calculation and unitary method

Calculation:

Ruby's cost price per button = $\frac{1}{20}$ Rs.

\Rightarrow For a 25% profit, the selling price per button = 125% of the cost price = $1.25 \times \left(\frac{1}{20}\right)$
= $\frac{1}{16}$ Rs.

\Rightarrow Number of buttons she can sell for Rs. 1 at this selling price = $1 \div \left(\frac{1}{16}\right) = 16$ buttons

So, Ruby must sell 16 buttons for Rs. 1 to achieve a 25% profit.

49. Answer: d

Explanation:

Given:

Product of the first and fourth terms = 70

Product of the second and third terms = $3.5x$

Concept Used:

In proportion, the product of the extremes (first and fourth terms) equals the product of the means (second and third terms).

Calculation:

According to the concept, we can set up the equation:

⇒ First term × Fourth term = Second term × Third term

⇒ $70 = 3.5x$

To solve for x , divide both sides by 3.5:

⇒ $x = 70 / 3.5$

⇒ $x = 20$

Therefore, the value of x is 20.

50. **Answer: d**

Explanation:

Given:

A and B can do the work in 50 hours.

B and C can do the work in 75 hours.

A and C can do the work in 25 hours.

Concept Used:

Work done is reciprocal of time taken.

Work done by $(A+B) + (B+C) + (A+C) = 2 \times (A+B+C)$

Calculation:

The work done by $A+B$, $B+C$, and $A+C$ in 1 hour is $1/50$, $1/75$, and $1/25$ respectively.

⇒ Sum of the work done by $A+B$, $B+C$, and $A+C$ in 1 hour = $(1/50) + (1/75) + (1/25)$

⇒ As per the concept used, $2 \times$ (Work done by $A+B+C$ in 1 hour) is equal to this sum.

Therefore, work done by $A+B+C$ in 1 hour = $[(1/50) + (1/75) + (1/25)] / 2$

⇒ So, the time taken by A, B, and C together to complete the work = $300/11$

So, A, B, and C together will complete the task in approximately $300/11$ hours.

51. Answer: a

Explanation:

Given:

We are asked to find the difference between the greatest and smallest 4-digit numbers divisible by both 36 and 48.

Concept Used:

The least common multiple (LCM) of two numbers is the smallest number that is divisible by both numbers.

Calculation:

The first step is to find the LCM of 36 and 48. The LCM of 36 and 48 is 144.

⇒ The smallest 4-digit number divisible by 144 is found by dividing 1000 (the smallest 4-digit number) by 144 and rounding up to the next whole number, then multiplying by 144.

⇒ $1000 / 144 = 6.94$ (approximately), so the next whole number is 7.

Therefore, the smallest 4-digit number divisible by 144 is $7 \times 144 = 1008$.

⇒ The greatest 4-digit number divisible by 144 is found by dividing 9999 (the greatest 4-digit number) by 144 and rounding down to the nearest whole number, then multiplying by 144.

⇒ $9999 / 144 = 69.44$ (approximately), so the whole number is 69.

Therefore, the greatest 4-digit number divisible by 144 is $69 \times 144 = 9936$.

⇒ The difference between the greatest and smallest 4-digit numbers divisible by 144 is $9936 - 1008 = 8928$.

So, the difference between the greatest and smallest 4-digit numbers exactly divisible by 36 and 48 is 8928.

52. Answer: a

Explanation:

Given:

Machine A can produce 1100 units in 9 hours.

Machine B can produce 1100 units in 12 hours.

Concept Used:

Work rate is the amount of work done per unit of time.

Calculation:

First, find the work rate for each machine:

⇒ Work rate of machine A = Total work / Total time = 1100 units / 9 hours = 122.22 units/hour

⇒ Work rate of machine B = Total work / Total time = 1100 units / 12 hours = 91.67 units/hour

Then, calculate the combined work rate of machine A and machine B:

⇒ Combined work rate = Work rate of machine A + Work rate of machine B = 122.22 units/hour + 91.67 units/hour = 213.89 units/hour

Finally, calculate the time it takes for both machines to produce 1100 units:

⇒ Time = Total work / Combined work rate = 1100 units / 213.89 units/hour = 36/7 hours

So, machines A and B working together at these constant rates can produce 1100 units in approximately 36/7 hours.

53. Answer: b

Explanation:

Given:

One-fourth of the distance traveled at 20 km/h.

Another one-fourth distance traveled at 10 km/h

Remaining distance traveled at 80 km/h.

Concept Used:

Average Speed = Total Distance/Total Time

Calculation:

Let the total distance be $4x$,

According to the question

$\Rightarrow 1/4$ th of distance = $4x \times 1/4 = x$ distance

Hence x km distance at 20km/hr and another x km distance at 10km/hr

Remaining distance = $4x - x - x = 2x$

$\Rightarrow 2x$ distance at 80 km/hr

Now average speed = $\frac{4x}{\frac{x}{20} + \frac{x}{10} + \frac{2x}{80}} = (4x \times 80)/14x = 22.86$ km/hr

\therefore The average speed is 22.86km/hr

54. Answer: a

Explanation:

Given:

The marked price of the item is Rs. 100000.

The shopkeeper offers a double discount of 20% and 10%.

Concept Used:

When two discounts are applied successively, the overall discount is given by the formula:

$$\text{Total discount} = a + b - (a \times b)/100$$

Calculation:

The first discount of 20% reduces the price to 80% of its original value:

$$\Rightarrow 100000 \times 80\% = \text{Rs. } 80000$$

The second discount of 10% reduces this price to 90% of its value:

$$\Rightarrow 80000 \times 90\% = \text{Rs. } 72000$$

So, the shopkeeper finally sold the item for Rs. 72000.

55. Answer: a

Explanation:

Given:

We are asked to find the remainder when $2^{305} + 303$ is divided by 9.

Concept Used:

Fermat's Little Theorem states that if p is a prime number and a is an integer not divisible by p , then $a^{(p-1)} \equiv 1 \pmod{p}$. This essentially means the remainder when $a^{(p-1)}$ is divided by p is 1.

The cyclic nature of the powers of 2 when divided by 9.

Calculation:

Let's first understand the pattern of the powers of 2 when divided by 9:

$$\Rightarrow 2^1 \equiv 2 \pmod{9}$$

$$\Rightarrow 2^2 \equiv 4 \pmod{9}$$

$$\Rightarrow 2^3 \equiv 8 \pmod{9}$$

$$\Rightarrow 2^4 \equiv 7 \pmod{9}$$

$$\Rightarrow 2^5 \equiv 5 \pmod{9}$$

$$\Rightarrow 2^6 \equiv 1 \pmod{9}$$

You can see that every 6th power of 2 leaves a remainder of 1 when divided by 9.

Therefore, we can say that for any integer n , $2^{6n} \equiv 1 \pmod{9}$

\Rightarrow Now, let's divide the power 305 by 6 to find out how many complete cycles of 6 we have and what the remainder is:

$$\Rightarrow 305 \div 6 = 50 \text{ remainder } 5$$

So, 2^{305} can be written as $(2^{6 \times 50}) \times 2^5$

\Rightarrow Since $(2^{6 \times 50}) \equiv 1 \pmod{9}$ and $2^5 \equiv 5 \pmod{9}$, we can substitute these into our equation:

$$\Rightarrow 2^{305} + 303 \equiv 1 \times 5 + 303 \pmod{9} = 308 \pmod{9}$$

When 308 is divided by 9, the remainder is 2.

Therefore, the remainder when $2^{305} + 303$ is divided by 9 is 2.

56. Answer: c

Explanation:

Given:

Cost Price (CP) of the chair is ₹800.

Selling Price (SP) of the chair is ₹1,100.

Concept Used:

The formula for calculating profit percentage is:

$$\text{Profit\%} = (\text{Profit} / \text{CP}) \times 100$$

Calculation:

First, calculate the profit which is the difference between the Selling Price (SP) and Cost Price (CP):

$$\Rightarrow \text{Profit} = \text{SP} - \text{CP} = ₹1,100 - ₹800 = ₹300$$

Then, calculate the profit percentage:

$$\Rightarrow \text{Profit\%} = (\text{Profit} / \text{CP}) \times 100 = (₹300 / ₹800) \times 100 = 37.5\%$$

So, the gain or profit percentage is 37.5%.

57. Answer: c

Explanation:

Given:

The height (h) of the right circular cylinder is 14 cm.

The curved surface area (CSA) of the cylinder is 110 cm².

Concept Used:

The curved surface area of a right circular cylinder is given by the formula:

$$\text{CSA} = 2\pi r \times h$$

where r is the radius of the base of the cylinder.

Calculation:

We can use the above formula to solve for r:

$$\Rightarrow 110 = 2 \times (22/7)r \times 14$$

$$\Rightarrow 110 = 88r$$

$$\Rightarrow r = 110/88 = 1.25 \text{ cm}$$

The diameter (d) of the base of the cylinder is twice the radius:

$$\Rightarrow d = 2r = 2 \times 1.25 = 2.5 \text{ cm}$$

Therefore, the base diameter of the cylinder is 2.5 cm.

58. Answer: d

Explanation:

Given:

The marked price of the item is Rs. 2000.

The shopkeeper offers a discount of 20%.

Concept Used:

The selling price after a discount is given by the formula:

$$\text{Selling Price} = \text{Marked Price} - (\text{Discount\%} \times \text{Marked Price})$$

Calculation:

First, calculate the amount of the discount:

$$\Rightarrow \text{Discount} = 20\% \times \text{Rs. } 2000 = \text{Rs. } 400$$

Then, subtract the discount from the marked price to get the selling price:

$$\Rightarrow \text{Selling Price} = \text{Rs. } 2000 - \text{Rs. } 400 = \text{Rs. } 1600$$

So, the shopkeeper finally sold the item for Rs. 1600.

59. Answer: d

Explanation:

Given:

The principal amount (P) is ₹800.

The final amount (A) is ₹926.10.

The annual interest rate (r) is 10% per annum, compounded half-yearly.

Concept Used:

The formula for compound interest compounded half-yearly is:

$$A = P \times (1 + r/2n)^{2nt}$$

where n is the number of times interest applied per time period (here it is 2 times as interest is compounded half-yearly) and t is the time in years.

Calculation:

We need to find the time (t) when the principal amount (P) becomes the final amount (A). We can plug in the given values and solve for t:

$$\Rightarrow ₹926.10 = ₹800 \times (1 + 0.10/2)^{2t}$$

Simplify the equation to get:

$$\Rightarrow 1.157625 = (1.05)^{2t}$$

$$\Rightarrow (1.05)^3 = (1.05)^{2t}$$

$$\Rightarrow t = 3/2 = 1.5$$

So, the principal amount of ₹800 will become ₹926.10 in approximately 1.5 years with an annual interest rate of 10% compounded half-yearly.

60. Answer: a

Explanation:

Given:

$$a + b = 25$$

$$a - b = 7$$

Concept Used:

The mean proportion between two numbers a and b is the square root of their product.

Calculation:

Let's solve the given equations to find the values of a and b :

Adding equations (1) and (2), we have:

$$\Rightarrow (a + b) + (a - b) = 25 + 7$$

$$\Rightarrow 2a = 32$$

$$\Rightarrow a = 16$$

Substituting the value of a into equation (1), we can find the value of b :

$$\Rightarrow 16 + b = 25$$

$$\Rightarrow b = 25 - 16$$

$$\Rightarrow b = 9$$

The mean proportion (M) between a and b is the square root of their product:

$$\Rightarrow M = \sqrt{(a \times b)} = \sqrt{(16 \times 9)} = \sqrt{144} = 12$$

Therefore, the mean proportion of a and b is 12.

61. Answer: c

Explanation:

The correct answer is 'Option 3' i.e. 'Cruel'.

★ Key Points

- The given word is "Compassionate".
- In English, "Compassionate" refers to having or showing compassion.

- **Compassion involves** feelings of sympathy and sadness for the suffering of others, and a desire to help or to alleviate the suffering. (सहानुभूति).
- Out of the options provided, the most appropriate **antonym** of "**compassionate**" is: '**Cruel**'.
- "**Cruel**" in English refers to someone who causes pain or suffering to others without feeling sympathy or remorse.
- It's the opposite of being compassionate because instead of wanting to alleviate suffering, a cruel person causes it. (निर्दय).

Therefore, the **correct answer** is: '**Cruel**'.

★ Additional Information

- Here are explanations for all the options:
 - **Likeable**: "Likeable" refers to a person or thing that is pleasing, agreeable, or enjoyable. A likeable person is easy to like. (पसंदीदा)
 - **Merciful**: "Merciful" refers to showing mercy, which means showing kindness, forgiveness, and compassion to someone who it is in one's power to punish or harm. (दयावान)
 - **Fashionable**: "Fashionable" refers to someone or something that is popular, up-to-date, or in the current trend or style. (फैशनेबल)

62. Answer: d

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Explanation:

The correct answer is '**Option 4**' i.e. '**Opening**'.

★ Key Points

- The underlined word in the sentence is '**orifice**'.
- In English, '**orifice**' refers to an opening, as of a pipe or tube, or one in the body, such as a nostril or the mouth. (छिद्र)
- Given the choices, the most appropriate **synonym** for '**orifice**' in this context is: '**Opening**'.

- **'Opening'** in English refers to a space or gap that allows passage or access. (खोलना)

Therefore, the **correct answer** is: **'Opening'**.

★ Additional Information

- Now, let's explain all the options:
 - **Origin:** This term refers to the point or place where something begins, arises, or is derived. (मूल)
 - **Ornate:** 'Ornate' refers to something that is made in an intricate shape or decorated with complex patterns. (भड़कीला) or (सजावटी).
 - **Ordained:** 'Ordained' means to be ordered or decreed officially. In a religious context, it can also refer to the process of being made a priest, minister, or rabbi. (नियुक्त) or (आदेशित).

63. **Answer: c**

Explanation:

The correct answer is **'Option 3'** i.e. **'Sturdy'**.

★ Key Points

- The given word is **"Feeble"**.
- In English, **"feeble"** refers to something that is lacking in force, strength, or effectiveness.
- **When it's used** to describe a person, it often refers to a lack of physical strength or health. (कमज़ोर)
- Out of the options provided, the most appropriate **antonym** of **"feeble"** is: **'Sturdy'**.
- **"Sturdy"** in English refers to something that is strongly and solidly built.
- When it's used to describe a person, it often means they're physically strong and healthy. (मजबूत)

Therefore, the **correct answer** is: **'Sturdy'**.

★ Additional Information

- Here are explanations for all the options:
 - **Anxious:** In English, "anxious" refers to a person who is experiencing worry, unease, or nervousness. (चिंतित)
 - **Weak:** In English, "weak" refers to a lack of physical strength and energy. (कमज़ोर)
 - **Curious:** In English, "curious" refers to someone eager to know or learn something. (जिज्ञासा)

64. Answer: d

Explanation:

The correct answer is 'Option 4'.

★ Key Points

- The segment of the sentence that contains an error of tense is: 'I has been'.
- In English, the **present perfect continuous** tense is formed using "has been" or "have been" along with the present participle (verb-ing).
- The **choice** between "has been" and "have been" **depends on the subject**.
- For the first person singular pronoun "I", the **correct form** is "have been". So the corrected phrase should be "I have been".

Therefore, the **correct sentence** is: "*I have been visiting my family and relatives during the winter vacation.*"

65. Answer: a

Explanation:

The correct answer is 'Option 1' i.e. 'Enormous'.

★ Key Points

- The underlined segment in the sentence is '**extremely large**'.
- In English, '**extremely large**' refers to something that is of a great size, more than usual or more than average. (अति विशाल)
- Given the choices, the most appropriate substitution for '**extremely large**' in this context is: '**Enormous**'.
- '**Enormous**' in English refers to something very large in size, quantity, or extent. (विशाल)

Therefore, the **correct answer** is: '**Enormous**'.

★ Additional Information

- Let's explain all the options:
 - **Meagre:** In English, 'meagre' refers to something small or insufficient in quantity or amount. (अल्प)
 - **Great:** In English, 'great' can mean large in amount, extent, or intensity. However, it also has other meanings like "excellent" or "very good" (महान)
 - **Oversize:** This term refers to something that is larger than the usual or standard size. While 'oversize' could potentially be used as a substitute for 'extremely large', it often implies that the size is more than necessary or beyond practicality. (अध्यातिक बड़ा). In this context, 'enormous' is a more suitable substitution.

66. **Answer: c**

Explanation:

The correct answer is '**Option 3**'.

★ Key Points

- The underlined phrase in the sentence is '**a snake in the grass**'.
- This is an idiomatic expression in English, which is used to refer to a person who pretends to be your friend but is actually an enemy who could betray you at

any moment.

- The phrase '**snake in the grass**' originates from the literal image of a dangerous snake hiding in tall grass. (घास में छुपा सांप)
- Given the choices, the most appropriate meaning of '**a snake in the grass**' in this context is: '**A deceitful person**'.
- '**A deceitful person**' in English refers to someone who deliberately causes others to believe something that is not true, for their own personal advantage. (कपटी व्यक्ति)

Therefore, the **correct answer** is: '**A deceitful person**'.

★ Additional Information

- Let's explain all the options:
 - **A devoted attendant:** This refers to a person who is loyal and provides faithful service. (निष्ठावान परिचारक)
 - **A disloyal soldier:** This refers to a soldier who is not loyal to his or her country or cause. (विश्वासघाती सैनिक)
 - **A coiled serpent:** A coiled serpent is just a snake that has wrapped itself into a coil, which is a literal interpretation of the idiom. (लुप्त सर्प)

67. Answer: b

Explanation:

The correct answer is 'Option 2' i.e. 'Chaste'.

★ Key Points

- The **correct word** to fill in the blank in the sentence "*He is an absolutely _____ man.*" is: '**Chaste**'.
- In English, "**chaste**" is an adjective that refers to someone who is morally clean and pure, particularly in a sexual context.
- It can also be used more generally to describe something that is simple, restrained, and devoid of unnecessary ornamentation.

Therefore, the **correct sentence** is: '*He is an absolutely **chaste** man.*'

★ Additional Information

- Here's why the other options don't fit:
 - **Chased:** The past participle of "chase", typically refers to having pursued in order to catch or catch up with. It wouldn't make sense in the given sentence.
 - **Chest:** This is a noun that refers to the front part of the body between the neck and the abdomen, or a large strong box, typically made of wood and used for storage or shipping. It doesn't fit grammatically or semantically in the sentence.
 - **Crazed:** This is an adjective that can describe a person who is wildly insane or mad. Though grammatically correct, it conveys a very different meaning from "chaste" and doesn't fit with the word "absolutely" as well as "chaste" does.

68. **Answer: b**

Explanation:

The correct answer is 'Option 2' i.e. '**Sour**'.

★ Key Points

- The bracketed word in the sentence is "**sweet**".
- In English, "**sweet**" is a term that describes one of the basic tastes perceived by the tongues of humans and many animals.
- It's usually experienced in response to eating foods rich in sugars.(मीठा)
- Considering the given options, the most appropriate **antonym** of "**sweet**" to fill in the blank in this context would be: '**Sour**'.
- "**Sour**" in English is another basic taste that is often described as sharp, tart, or acidic.(खट्टा).
- It's the opposite of "**sweet**".

Therefore, the **correct answer** is: '**Sour**'.

★ Additional Information

- Here are explanations for all the options:
 - **Rancid:** In English, "rancid" refers to food (especially fats and oils) that has a strong, unpleasant smell or taste because it is no longer fresh. (बासी)
 - **Stale:** In English, "stale" refers to (of food) no longer fresh and pleasant to eat. (बासी)
 - **Fetid:** This term describes something that has an extremely unpleasant smell. (दुर्गंधयुक्त)

69. Answer: a

Explanation:

The correct answer is 'Option 1'.

★ Key Points

- The sage preached that we are accountable to God in this life.
- In English, the word "**accountable**" is spelled with two "c"s and one "t".
- **It means** responsible or answerable.
- This spelling is correctly used in the first sentence.

Therefore, the **correct sentence** is: '*The sage preached that we are accountable to God in this life.*'

★ Additional Information

- The other options all have incorrect spellings of the word "accountable":
 - "**Akountable**" is incorrect. The correct spelling is "accountable".
 - "**Accountable**" is incorrect. The correct spelling is "accountable".
 - "**Accountable**" is incorrect. The correct spelling is "accountable".

70. Answer: c

Explanation:

The correct answer is 'Option 3' i.e. 'Notices'.

★ Key Points

- The **correct word** to fill in the blank in the sentence "He indeed is intelligent who _____ this and succeeds in making all work truly great." is: '**Notices**'.
- The sentence is in the **present tense**.
- The use of "**is**" indicates present tense, so the verb that follows should also be in the present tense.
- "**Notices**" is the present tense form of the verb "notice", which means to become aware of or pay attention to something.

Therefore, the **correct sentence** is: '*He indeed is intelligent who **notices** this and succeeds in making all work truly great.*'

★ Additional Information

- Here's why the other options don't fit:
 - **Was noticed:** This is the passive voice form of the past simple tense of "notice". It wouldn't make sense in the given sentence because the person referred to as "he" is the one doing the noticing, not the one being noticed.
 - **Noticed:** This is the past tense of "notice". It wouldn't fit because the rest of the sentence is in the present tense.
 - **Noticing:** This is the present participle of "notice". It could potentially fit in some contexts, but in this case "notices" is more appropriate because it matches the tense and mood of the rest of the sentence.

71. Answer: a

Explanation:

The correct answer is 'Option 1' i.e. 'Skulptor'.

★ Key Points

- The incorrectly spelled word among the options is: '**Skulptor**'
- The correct spelling of this word is "**Sculptor**".
- A **sculptor** is an artist who makes sculptures, which are three-dimensional artistic objects or designs. (मूर्तिकार).

The **correct answer** is: '**Skulptor**'.

★ Additional Information

- Let's explain all the options:
 - **Miraculous**: This is spelled correctly. "Miraculous" means pertaining to a miracle, or something that is extraordinarily wonderful or supernatural. (चमत्कारी).
 - **Vision**: This is spelled correctly. "Vision" refers to the ability to see, or an idea or mental image of something. (दृष्टि) or (दर्शन).
 - **Succeed**: This is spelled correctly. "Succeed" means to achieve a desired aim or result. In Hindi, succeed is referred to as "safal hona" (सफल होना).

72. **Answer: a**

Explanation:

The correct answer is '**Option 1**' i.e. '**Excellent**'.

★ Key Points

- The given word is "**Ideal**".
- "**Ideal**" in English refers to a standard of perfection or excellence; something that is considered perfect and serves as a model for others. (आदर्श)
- Considering the given options, the most appropriate **synonym** for "**Ideal**" in this context would be: '**Excellent**'.
- "**Excellent**" in English refers to something that is extremely good or outstanding, very similar to an ideal standard. (उत्कृष्ट)

Therefore, the **correct answer** is: '**Excellent**'.

★ Additional Information

- Let's explain all the options:
 - **Hefty:** In English, "hefty" refers to something large, heavy, or powerful. It's used to describe physical weight or size, and sometimes to describe large amounts of something (like a hefty sum of money). (भारी)
 - **Bad:** In English, "bad" refers to something that is not good in quality (बुरा)
 - **Intact:** In English, "intact" refers to something that remains untouched or uninjured; kept or left whole (अक्षुण्ण)

73. Answer: a

Explanation:

The correct answer is 'Option 1'.

★ Key Points

- The most appropriate option to substitute the underlined segment in the given sentence "*I visited the hospital to 'enquire about eyes surgery.'*" is: '**enquire about eye surgery**'.
- The correct phrase is "**eye surgery,**" not "*eyes surgery.*"
- The word "**eye**" in this context is used as a modifier for the noun "surgery" and doesn't need to be plural.

Therefore, the **correct sentence** is: '*I visited the hospital to enquire about eye surgery.*'

★ Additional Information

- Here's why the other options are not appropriate:
 - **Enquire for eyes surgery:** The preposition "for" is not typically used with "enquire" in this context. Moreover, "eyes surgery" is grammatically incorrect.
 - **Enquired about eye surgery:** The tense would not match with the rest of the sentence. The original sentence is in the simple past tense (I visited), so the verb "enquire" should be in the infinitive form to match the structure of the sentence.

74. Answer: c

Explanation:

The correct answer is 'Option 3' i.e. 'Challenge'.

★ Key Points

- The idiom "To call in question" is given.
- "To call in question" is an English idiom that means to doubt, challenge, or dispute the truth or validity of something.(सवाल उठाना)
- Considering the given options, the most appropriate meaning for "To call in question" is: 'Challenge'
- "Challenge" in English refers to inviting or daring someone to engage in a contest, fight, or competition.(चुनौती).
- In the context of the idiom, it means to dispute the truth or validity of something.

Therefore, the correct answer is: 'Challenge'.

★ Additional Information

- Let's explain all the options:
 - **Show indifference:** This means not showing any interest or concern about something.(उदासीनता दिखाना)
 - **Take a resolute stand:** This means to firmly decide on and stick to a particular course of action. (दृढ़ स्थिति लेना)
 - **Dislike the arrangement:** This means having a negative feeling or aversion towards the way things are organized or arranged. (व्यवस्था को पसंद नहीं करना)

75. Answer: a

Explanation:

The correct answer is 'Option 1' i.e. 'Ate; eight'.

★ Key Points

- The **correct pair** of words to complete the sentence "My brother _____ apples during his fast." is: '**ate; eight**'.
- "**ate; eight**" is the correct answer as it maintains the correct grammar and meaning in the sentence.
- "**Ate**" is the past tense of "eat" and "**eight**" is a number indicating the quantity of apples consumed.

Therefore, the **correct sentence** is: "*My brother **ate eight** apples during his fast.*"

★ Additional Information

- Here's why the other options are incorrect:
 - **Eight; eight** - The first 'eight' is incorrect because it's a number and doesn't fit the context. The verb "ate" should be used to indicate that the brother consumed the apples.
 - **Ate; ate** - The second 'ate' is incorrect because it's a verb and doesn't fit the context. The number "eight" should be used to indicate the quantity of apples eaten.
 - **Eight; ate** - The first 'eight' is incorrect because it's a number and doesn't fit the context. The verb "ate" should be used to indicate that the brother consumed the apples.

76. **Answer: c**

Explanation:

The correct answer is 'Option 3' i.e. 'Less'.

★ Key Points

- The most appropriate option to fill in blank number 1 in the given passage is: '**Less**'.

- The **context** of the sentence is discussing the benefit of online communication, which includes a reduction in the use of paper.
- So, the word that best fits the blank is "**less**," indicating a decreased dependence on paper due to online communication.

Therefore, the **correct sentence** is: 'One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a **less** dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet (2) _____ needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.'

★ Additional Information

- Here's why the other options are not appropriate:
 - **Restless:** This adjective describes someone who is unable to rest or relax due to anxiety or boredom. It doesn't fit the context of the sentence.
 - **Crest:** This noun can refer to the top of something (like a wave or a mountain), or it can be a symbol or emblem. Neither meaning fits the context of the sentence.
 - **Dress:** This noun usually refers to a one-piece garment worn by women and girls. It doesn't fit the context of the sentence.

77. **Answer: b**

Explanation:

The correct answer is 'Option 2' i.e. 'Various'.

★ Key Points

- The most appropriate option to fill in blank number 2 in the given passage is: **'Various'**
- In this context, **"various"** is the best choice because it refers to different types of needs for which paper is used.

Therefore, the **correct sentence** is: *'One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a **less** dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet **various** needs, it would be horrendous to keep (3) _____ the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.'*

★ Additional Information

- Here's why the other options are not appropriate:
 - **Controversial:** This adjective describes something that causes disagreement or argument. It doesn't fit in the context of the sentence, which is talking about the different needs for paper.
 - **Rare:** This adjective means not occurring very often. In this context, it wouldn't make sense because the demand for paper is not rare, but quite common.
 - **Handle:** This noun usually refers to the part by which a thing is held, carried, or controlled, and as a verb, it means manage. Neither fits in the context of the sentence.

78. Answer: b

Explanation:

The correct answer is 'Option 2' i.e. 'Increasing'.

★ Key Points

- The most appropriate option to fill in blank number 3 in the given passage is: 'Increasing'.
- In this context, "increasing" is the best choice because it refers to the growing demand for paper worldwide, which would be horrendous considering the environmental impact.

Therefore, the **correct sentence** is: 'One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a **less** dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet **various** needs, it would be horrendous to keep **increasing** the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a (4) _____ in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) _____.'

★ Additional Information

- Here's why the other options are not appropriate:
 - **Planning:** This verb means making detailed arrangements for future activities. In this context, it doesn't make sense because the sentence is talking about the ongoing action of meeting the demand for paper, not planning for it.
 - **Contriving:** This verb means creating or bringing about (an object or a situation) by deliberate use of skill and artifice. It doesn't fit the context of the sentence.
 - **Depriving:** This verb means denying (a person or place) the possession or use of something. It doesn't make sense in the context of the sentence which is talking about the ongoing action of meeting the demand for paper, not depriving it.

79. Answer: b

Explanation:

The correct answer is 'Option 2' i.e. 'Reduction'.

★ Key Points

- The most appropriate option to fill in blank number 4 in the given passage is: 'Reduction'.
- In this context, "reduction" is the best choice because it refers to the decrease in the use of paper due to online communication.

Therefore, the **correct sentence** is: 'One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a **less** dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet **various** needs, it would be horrendous to keep **increasing** the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a **reduction** in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of (5) -----.'

★ Additional Information

- Here's why the other options are not appropriate:
 - **Traction:** This noun refers to the grip of a tyre on a road or a wheel on a rail, or the extent to which an idea, product, etc., gains popularity or acceptance. Neither meaning fits the context of the sentence.
 - **Induction:** This noun refers to the process or action of bringing about or giving rise to something. In this context, it doesn't make sense because the sentence is discussing a decrease, not an initiation or increase.
 - **Gumption:** This noun means spirited initiative and resourcefulness, which doesn't fit the context of the sentence, which is discussing a decrease in the use of paper.

80. Answer: c

Explanation:

The correct answer is 'Option 3' i.e. 'Newspapers'.

★ Key Points

- The correct choice to fill in the blank 5 is '**Newspapers**'.
- In this context, "**newspapers**" is the best choice because the sentence is discussing the shift from offline to online versions of news delivery.

Therefore, the **correct sentence** is: *'One certain benefit of online communication either through email or even communicating through WhatsApp nowadays is that there is a **less** dependence on paper. It is said that to make a ton of paper 17 trees have to be cut down. With the already existing demand for paper to meet **various** needs, it would be horrendous to keep **increasing** the demand for paper worldwide. Online communication is a boon as many documents are now sent by mail through PDF, Microsoft Word or the JPEG format. This means that there is certainly a **reduction** in the use of paper due to online communication. Many people read online newspapers nowadays, which means there is a decline in the number of people buying offline versions of **newspapers**.'*

★ Additional Information

- Here's why the other options are not appropriate:
 - **Fliers:** These are usually small paper advertisements or announcements that are distributed to people in a public place. Although they are made of paper, the context of the sentence is specifically referring to news sources, making "newspapers" a more accurate choice.
 - **Magazines:** Although these are also a form of printed media, the focus of the passage appears to be more on daily news (which is typically delivered via newspapers) rather than periodicals such as magazines.
 - **Canvas:** This is a strong, coarse unbleached cloth made from hemp, flax, or a similar yarn, used to make items such as sails and tents and as a surface for oil painting. It does not fit the context of the sentence, which is referring to news sources.