

# 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 4)

Total Time: 1 Hour

Total Marks: 160

## Instructions

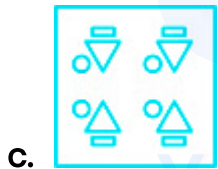
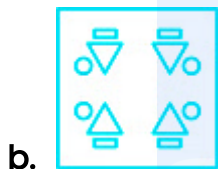
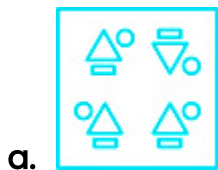
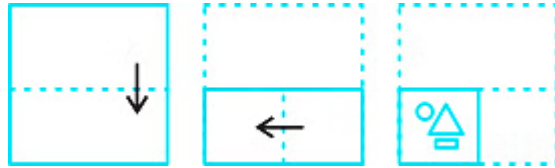
Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence and Reasoning	20	40	0.5	2
2	General Knowledge and General Awareness	20	40	0.5	2
3	Elementary Mathematics	20	40	0.5	2
4	English	20	40	0.5	2

- 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. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Select the figure which would most closely resemble the unfolded form of the paper.

(+2, -0.5)



2. Select the correct combination of mathematical signs to sequentially replace the % signs and to balance the given equation.

(+2, -0.5)

$$48 \% 12 \% 5 \% 5 \% 4$$

- a.  $\times, \div, =, -$

b.  $\div, \times, =, \times$

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

d.  $\div, \times, =, -$

---

3. In a certain code language, BRAVE is coded as 48, and SPEAR is coded as 59. How will VICTOR be coded in that language? (+2, -0.5)

a. 85

b. 81

c. 87

d. 83

---

4. Select the set in which the numbers are related in the same way as are the numbers of the following set. (+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, 20, 341)

(25, 33, 638)

a. (20, 25, 625)

b. (12, 29, 341)

c. (14, 17, 363)

d. (12, 32, 484)

---

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

XEJT, UHMQ, ?, ONSK, LQVH

- a. RKPN
  - b. SKQN
  - c. RKQM
  - d. RLPN
- 

6. In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements. (+2, -0.5)

Statements:

All notebooks are pink.

All pinks are shirts.

Some shirts are trousers.

Conclusions:

I. All trousers are notebooks.

II. Some trousers are pink.

- a. Only conclusion I follows.
- b. Both conclusions I and II follow.

- c. Neither conclusion I nor II follows.
  - d. Only conclusion II follows.
- 

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

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

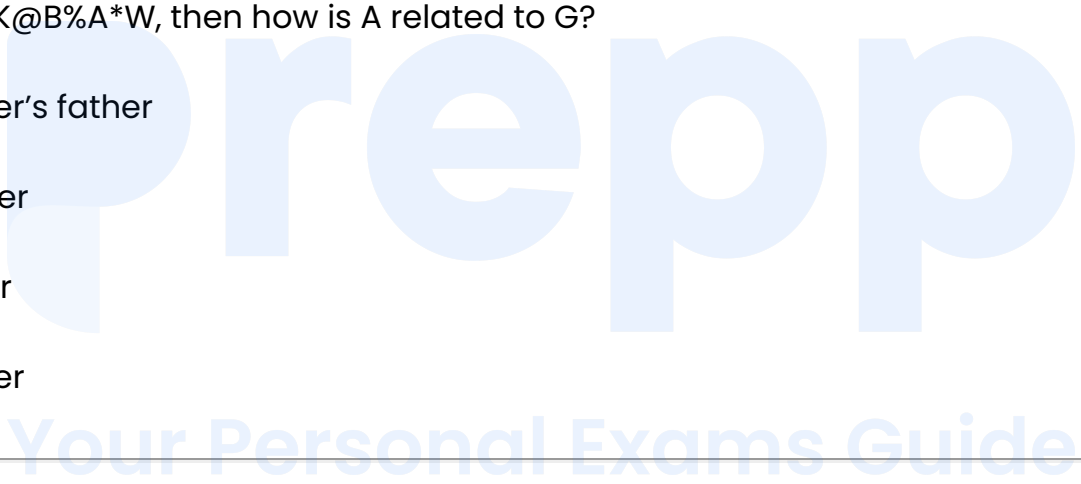
A & B means 'A is the husband of B'

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

A \* B means 'A is the son of B'

If M\*G@K@B%A\*W, then how is A related to G?

- a. Mother's father
  - b. Brother
  - c. Father
  - d. Mother
- 



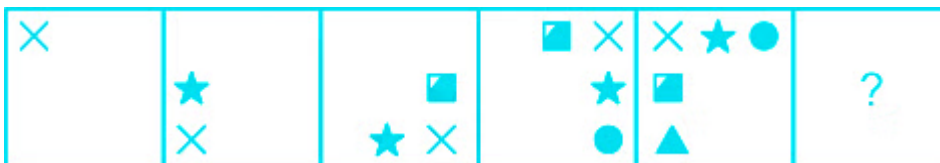
8. In a certain code language, 'TRAVEL' is written as '156', 'PERSON' is written as '174', how will 'ALMOND' be written as in that language? (+2, -0.5)

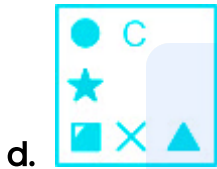
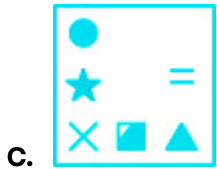
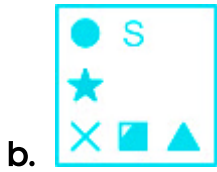
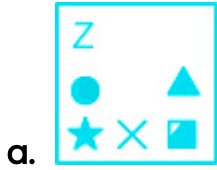
- a. 64
  - b. 118
  - c. 59
  - d. 120
-

9. Six candidates Anand, Balu, Charan, Dinesh, Emran and Farhad were seated on a circular table for group discussion at equal distance, facing the centre of the circle. Dinesh is the immediate neighbour of Emran and Balu while Charan is the immediate neighbour of Anand and Farhad. If Farhad is to the immediate right of Balu, then who is on the immediate right of Dinesh? (+2, -0.5)
- Farhad
  - Anand
  - Emran
  - Balu

10. Six friends (P, Q, R, S, T and U) are sitting around a circular table facing the centre. P sits second to the right of U. R sits third to the right of Q. S and R both are the immediate neighbours of P. Who sits between Q and P? (+2, -0.5)
- T
  - R
  - S
  - U

11. Select the figure from among the given options that can replace the question mark (?) in the following series. (+2, -0.5)





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





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

AKED, ENGE, ?, MTKG, QWMH

- a. IRIF
- b. IQIF
- c. IQJF
- d. IQJE

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

50, 60, 51, 62, 54, 66, 59, 72, ?

- a. 71
- b. 66
- c. 65
- d. 64

15. 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)

EXPLAIN : AEILNPX :: MEDICAL : AEICDLM :: PRIVACY : ?

- a. AICPRYV
- b. AICPRVY

c. AICRPVY

d. ACIPVRY

---

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

1. Bread

2. Brain

3. Break

4. Broom

5. Bridge

a. 3, 2, 1, 4, 5

b. 2, 1, 3, 5, 4

c. 3, 1, 2, 4, 5

d. 2, 3, 1, 4, 5

---

17. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below. (+2, -0.5)

xCwV523A  
M /// N

a. xCwV523A

b. xCwV223A

c. xCwV253A

d. XCMΛ253V

---

18. Which two signs should be interchanged to make the below equation mathematically correct? (+2, -0.5)

$$112 - 14 \div 40 + 8 \times 12 = 64$$

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

19. 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)

DOWN: VKCL:: ARMY: YHMA :: HOME:?

- a. GNLD
  - b. RKMU
  - c. TMOW
  - d. SLNV
- 

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

23, 24, 50, 153, ?

- a. 512
- b. 516
- c. 616
- d. 204

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Your Personal Exams Guide

## General Knowledge and General Awareness

21. \_\_\_\_\_ (NPS) is a voluntary, defined contribution retirement savings scheme to enable the subscribers to make optimum decisions regarding their future through systematic savings. (+2, -0.5)
- a. National Permit System
  - b. National Pension System
  - c. National Paid Scheme
  - d. National Payer System
- 
22. 'Gonph' dance is a famous folk dance of which state? (+2, -0.5)
- a. Uttar Pradesh
  - b. Goa
  - c. Bihar
  - d. Odisha
- 
23. Which of the following is not an essential Qualification for the candidature of President? (+2, -0.5)
- a. Qualified for election as a member of the House of the People
  - b. Minimum Thirty-Five years of Age
  - c. Citizen of India
  - d. Higher Education
-

24. In India, the responsibility of conducting the decadal census rests with which ministry? (+2, -0.5)

- a. Ministry of Home Affairs
- b. Ministry of Finance
- c. Ministry of Corporate Affairs
- d. Ministry of Statistics

25. Identify the third layer of soil from top. (+2, -0.5)

- a. Unweathered parent bed rock
- b. Sub soil
- c. Top soil
- d. Substratum weathered parent rock material

26. The Hemis festival is predominantly celebrated in \_\_\_\_\_. (+2, -0.5)

- a. Puducherry
- b. Chandigarh
- c. Ladakh
- d. Lakshadweep

27. Which five year plan was running in India during the 1971 Indo-Pak war? (+2, -0.5)

- a. Eighth
- b. Fourth

- c. Second
- d. Sixth

---

28. In India, the first phase of the green revolution was from mid \_\_\_\_\_ (+2, -0.5)  
upto mid \_\_\_\_\_ .

- a. 1940, 1950
- b. 1970, 1980
- c. 1960, 1970
- d. 1950, 1960

---

29. The Asian Games 2018 was held in which of the following country? (+2, -0.5)

- a. Indonesia
- b. Singapore
- c. Thailand
- d. Maldives

---

30. Aparna Satheesan was honoured with the prestigious Bharata Shastra (+2, -0.5)  
Nritya Praveena National Award for her outstanding performance in which  
dance form?

- a. Kathakali
- b. Bharatnatyam
- c. Lavani

d. Kuchipudi

---

31. What is the diameter and weight of the discus used in a discus thrown in Men's category? (+2, -0.5)

- a. 3kg in weight and 24cm in diameter
- b. 2kg in weight and 23cm in diameter
- c. 2.5kg in weight and 22cm in diameter
- d. 2kg in weight and 22cm in diameter

---

32. In 2019, with \_\_\_\_\_ million tonnes of crude steel production, India ranked 2nd among the world crude steel producers. (+2, -0.5)

- a. 71
- b. 234
- c. 198
- d. 111

---

33. Which among the following elements has atomic number 33? (+2, -0.5)

- a. Arsenic
- b. Barium
- c. Neon
- d. Iodine

---

34. The \_\_\_\_\_ has the sole authority to issue banknotes in India. (+2, -0.5)



- a. State Bank of India
- b. Securities bank
- c. World bank
- d. Reserve bank of India

---

35. Who has been appointed as Vice Chairman of NITI AAYOG from 1 May 2022? (+2, -0.5)

- a. Gita Gopinath
- b. Dr. Hiren Joshi
- c. Ranjan Gogoi
- d. Suman Bery

---

36. As the Mauryan empire was so large, different parts were ruled differently. The area around \_\_\_\_\_ was under the direct control of the emperor. (+2, -0.5)

- a. Taxila
- b. Ujjain
- c. Pataliputra
- d. Lumbini

---

37. To defend the Khalifa's temporal powers, a Khilafat Committee was formed in Bombay in \_\_\_\_\_. (+2, -0.5)

- a. May 1918
- b. May 1919

- c. March 1918
  - d. March 1919
- 

38. Which of the following pair of cell - shape is correct? (+2, -0.5)

- I. Red blood cells - Spherical shape
- II. Muscle cells - Spindle shape

- a. Neither I nor II
  - b. Both I and II
  - c. Only II
  - d. Only I
- 

39. Which of the following duties was NOT added by the 42nd amendment to the Indian Constitution? (+2, -0.5)

- a. To provide opportunities for education to one's child or ward between the ages of six and fourteen years
  - b. To value and preserve the rich heritage of the country's composite culture
  - c. To safeguard public property and to abjure violence
  - d. To uphold and protect the sovereignty, unity and integrity of India
- 

40. Who was approved as the non-executive part time chairman of Yes Bank by Reserve Bank of India in September 2022? (+2, -0.5)

- a. Osborn Smith

- b.** Shaktikanta Das
- c.** Rama Subramaniam Gandhi
- d.** Raghuram Rajan

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Your Personal Exams Guide

## Elementary Mathematics

41. Ankita bought some toys at 10 percent discount on the original price. The original price of each toy was Rs. 50. If she made a total savings of Rs. 450, then how many toys did she buy? (+2, -0.5)
- a. 75
  - b. 50
  - c. 90
  - d. 45
- 
42. A cyclist and a jogger cover a certain distance at a certain speed. If the jogger covers one-third of the distance covered by cyclist in double of the time as that taken by the cyclist, the ratio of the speed of the jogger to that of the cyclist is: (+2, -0.5)
- a. 1 : 9
  - b. 9 : 1
  - c. 1 : 6
  - d. 6 : 1
- 
43. A woman buys an item for Rs.950 and sells it for Rs.1,150. What is her percentage profit (rounded off to the nearest integer)? (+2, -0.5)
- a. 21%
  - b. 23%

c. 20%

d. 22%

---

44. On an item, a shopkeeper offers a discount of 7.5% on the marked price and a cashback of ₹10 per item. He still earns ₹5 per item. If ₹ $x$  is the marked price of each item, then, what is the cost price (in ₹) of each item? (+2, -0.5)

a.  $0.915x - 5$

b.  $0.925x - 5$

c.  $0.925x - 15$

d.  $0.915x - 15$

---

45. After deducting 15% from a certain sum and then 25% from the remainder, there is ₹4,335 left. Find the original sum. (+2, -0.5)

a. ₹6,800

b. ₹6,700

c. ₹6,500

d. ₹7,000

---

46. The expenditure of a man is 70% of his income. If his income will successively increase by 20% and 50%, then his new expenditures is how much percentage more/less than his previous expenditure, so that his new savings become 2.5 times of the previous savings? (+2, -0.5)

a. More, 50%

- b. Less, 50%
- c. Less, 54%
- d. More, 54%

---

47. A completes 80% of a work in 20 days. Then B joins A and they complete the remaining work in 3 days. How long will B alone take to complete the whole work? (+2, -0.5)

- a.  $37\frac{1}{2}$  days
- b. 40 days
- c. 39 days
- d.  $35\frac{1}{2}$  days

---

48. The maximum length of a rod (in m) that can be kept in a cuboidal room of length 10 m, breadth 6 m and height 8 m, is: (+2, -0.5)

- a.  $9\sqrt{2}$
- b.  $12\sqrt{2}$
- c.  $10\sqrt{2}$
- d.  $15\sqrt{2}$

---

49. The ratio of cheese to sauce for a single pizza is 1 cup to  $\frac{1}{2}$  cup. If Rama used 15 cups of sauce to make a certain number of pizzas, then how many cups of cheese did she use on those pizzas? (+2, -0.5)

- a. 30

- b. 20
  - c. 40
  - d. 10
- 

50. A bicyclist travels 20 miles in 2 h and 30 min and 10 miles in 1 h 15 min. Find the average speed in miles per hour. (+2, -0.5)

- a. 6
  - b. 10
  - c. 4
  - d. 8
- 

51. Sakshi and Komal together can complete a work in 10 days. Komal can complete the same work in 22 days. They started working together but Sakshi left the work after 3 days and Komal completed the remaining work alone. Find the total number of days in which the work is completed. (+2, -0.5)

- a.  $88/5$  days
  - b.  $92/5$  days
  - c.  $97/5$  days
  - d.  $44/5$  days
- 

52. A bank offers compound interest at the rate of 10% per annum when interest is compounded half-yearly. A customer deposits Rs.3,200 each on 1st January and 1st July of a year. At the end of the year, what will be the amount received by customer as interest? (+2, -0.5)

- a. Rs.488
- b. Rs.656
- c. Rs.720
- d. Rs.528

---

53. The value of  $\frac{16 \times 9 \div 4 \text{ of } 2}{3 \times (9-6) - 2 \times 3 \div 4 \text{ of } \frac{1}{2}}$  is: (+2, -0.5)

- a. 3
- b. 9
- c. 36
- d. 18

---

54. What is the difference between compound interests on ₹5,000 compounded yearly and half-yearly for 1 year at 4% per annum? (+2, -0.5)

- a. ₹2.04
- b. ₹2.00
- c. ₹19.04
- d. ₹3.20

---

55. The ratio of the money with Geeta and Radha is 7 : 15 and that of the money with Radha and Savitha is 7 : 16. If Geeta has ₹980, how much money does Savitha have? (+2, -0.5)

- a. ₹2,400



- b. ₹2,100
  - c. ₹9,800
  - d. ₹4,800
- 

56. A fast local train takes 30 minutes less than a slow local train for a journey of 60 km. If the speed of the slow local train is 20 km/h less than the speed of the fast local train, what is the speed of the slow local train? (+2, -0.5)

- a. 60 km/h
  - b. 30 km/h
  - c. 40 km/h
  - d. 50 km/h
- 

57. A person travels from one place to another at 180 km/h and returns to the starting point by the same route at 240 km/h. If the total time taken is 6 h, then find the distance between two places. (+2, -0.5)

- a. 872.26 km
  - b. 720.84 km
  - c. 650.28 km
  - d. 617.14 km
- 

58. The length, breadth and the height of a cuboid are 24 cm, 18 cm and 12 cm respectively. It is melted to make smaller cubes. If the length of the side of the cube is 6 cm, then what is the number of cubes formed? (+2, -0.5)

- a. 22
  - b. 26
  - c. 18
  - d. 24
- 

59. The numbers 73, 115 and 185 are divided a by number to leave the same remainder. Find the greater possible such number. (+2, -0.5)

- a. 5
  - b. 7
  - c. 14
  - d. 11
- 

60. As shopkeeper using a faulty weight while professes to sell the article at cost price and gains a profit of 25%. Find the faulty weight he uses for 1000 g. (+2, -0.5)

- a. 850 g
- b. 750 g
- c. 800 g
- d. 975 g

## English

61. Select the option that expresses the given sentence in future tense form. (+2, -0.5)

We were holding the things with a strong rope.

- a. We will be holding the things with a strong rope.
- b. We have been holding the things with a strong rope.
- c. We were being holding the things with a strong rope.
- d. We are holding the things with a strong rope.

62. Select the correct word for the blanks in the given sentence. (+2, -0.5)

A \_\_\_\_\_ is a nocturnal animal and a \_\_\_\_\_ is needed for the game of cricket.

- a. ball
- b. bales
- c. goal
- d. bat

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

Her face was \_\_\_\_\_ after seeing the house in such condition.

- a. bedew
- b. blue
- c. brew

d. blew

---

64. 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)

She has barely made it to the airport, when she heard the news of her dad's accident.

- a. have barely made it
  - b. had barely made it
  - c. No substitution
  - d. is barely making it
- 

65. Select the most appropriate set of words to complete the sentence. (+2, -0.5)

I want to see the Dussehra \_\_\_\_\_ in Delhi, what is the second-class railway \_\_\_\_\_ from Agra to Delhi.

- a. fair; fare
  - b. fare; fair
  - c. fair; fair
  - d. fare; fare
- 

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

Flash in the pan

- a. Someone who helps others when they are in need, with no discussion for compensation, and no thought of a reward
  - b. Something that looks promising in the beginning but fails to deliver anything in the end
  - c. Not willing or wanting to change from your normal way of doing something
  - d. A place where people gather to buy and sell inexpensive goods
- 

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

Autonomy

- a. Temperance
  - b. Partiality
  - c. Dependency
  - d. Righteousness
- 

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

Your health could suffer if you spend more time with the automobiles.

- a. in front of electronic devices
- b. in backlog of machines
- c. besides the machines
- d. after the digital devices

69. Select the most appropriate synonym of the given word.

(+2, -0.5)

Compact

- a. Dense
- b. Expand
- c. Whole
- d. Holistic

---

70. Select the most appropriate meaning of the given idiom.

(+2, -0.5)

Go the extra mile

- a. Do much more than required
- b. Spend more money than required
- c. Walk more than required
- d. Talk more than required

---

71. 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)

Prince Charles became a youngest heir to the throne at the age of seven.

- a. the youngest heir to an throne
- b. No substitution
- c. the youngest heir to the throne

d. a youngest heir to a throne

---

72. Select the most appropriate ANTONYM of the given word.

(+2, -0.5)

Inspid

- a. Explicit
  - b. Opaque
  - c. Tasty
  - d. Immense
- 

73. Select the INCORRECTLY spelt word.

(+2, -0.5)

- a. Slaughter
  - b. Dampness
  - c. Anthropology
  - d. Phenomenon
- 

74. Identify and correct the INCORRECTLY spelt word in the given sentence.

(+2, -0.5)

The flowers in the garden seemed as if they refused to bloom for spraying pesticides on them.

- a. pestisides
- b. blome
- c. refuced

d. flowers

---

75. Select the most appropriate synonym of the underlined word from the given options. (+2, -0.5)

The benevolent lady donated her estate for the welfare of the city.

- a. Foolish
  - b. Gracious
  - c. Insane
  - d. Charming
- 

76. 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)

The most common health conditions (1) \_\_\_\_\_ people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they (2) \_\_\_\_\_ the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.

Select the most appropriate option to fill in blank 1.

- a. looking
- b. towards



- c. facing
- d. against

77. 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)

The most common health conditions (1) \_\_\_\_\_ people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they (2) \_\_\_\_\_ the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.

Select the most appropriate option to fill in blank 2.

- a. count to
- b. dive in
- c. pass off
- d. fall into

78. 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)

The most common health conditions (1) \_\_\_\_\_ people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they (2) \_\_\_\_\_ the illness side of the spectrum. Lifestyle factors that put you at risk for developing these

conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.

Select the most appropriate option to fill in blank 3.

- a. desire
- b. impoverishment
- c. deprivation
- d. poverty

---

79. 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)

The most common health conditions (1) \_\_\_\_\_ people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they (2) \_\_\_\_\_ the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.

Select the most appropriate option to fill in blank 4.

- a. empirical
- b. unhygienic
- c. contaminated

d. unhealthy

80. 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)

The most common health conditions (1) \_\_\_\_\_ people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they (2) \_\_\_\_\_ the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.

Select the most appropriate option to fill in blank 5.

- a. concerning
- b. around
- c. directing
- d. against

## Answers

### 1. Answer: b

#### Explanation:

The paper when unfolded will appear as shown below:



Hence, the correct answer is "Option 2".

### 2. Answer: b

#### Explanation:

Given equation:  $48 \div 12 \div 5 \div 5 \div 4$ .

BODMAS Table:

<b>B</b>	Brackets in order $(, ), \{, \}$	ब्रकेट $(, ), \{, \}$ क्रम में
<b>O</b>	of	का
<b>D</b>	Division $(\div)$	विभाजन $(\div)$
<b>M</b>	Multiplication $(\times)$	गुणा $(\times)$
<b>A</b>	Addition $(+)$	जोड़ $(+)$
<b>S</b>	Subtraction $(-)$	घटाव $(-)$

Let's check each option one by one.

Option 1)  $\times, \div, =, -$

Given:  $48 \div 12 \div 5 \div 5 \div 4$

After replacing the \* signs we get;

$$\Rightarrow 48 \times \underline{12} \div 5 = 5 - 4$$

$$\Rightarrow \underline{48} \times \underline{2.4} = 5 - 4$$

$$\Rightarrow 115.2 = \underline{5 - 4}$$

$$\Rightarrow 115.2 \neq 1$$

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

Option 2)  $\div, \times, =, \times$

$$\text{Given: } 48 \div 12 \% 5 \% 5 \% 4$$

After replacing the \* signs we get;

$$\Rightarrow \underline{48} \div \underline{12} \times 5 = 5 \times 4$$

$$\Rightarrow \underline{4} \times 5 = \underline{5} \times 4$$

$$\Rightarrow 20 = 20$$

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

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

$$\text{Given: } 48 \% 12 \% 5 \% 5 \% 4$$

After replacing the \* signs we get;

$$\Rightarrow 48 \times 12 = 5 - \underline{5 \div 4}$$

$$\Rightarrow \underline{48} \times \underline{12} = 5 - 1.25$$

$$\Rightarrow 576 = \underline{5 - 1.25}$$

$$\Rightarrow 576 \neq 3.75$$

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

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

Given:  $48 \% 12 \% 5 \% 5 \% 4$

After replacing the \* signs we get;

$$\Rightarrow \underline{48} \div \underline{12} \times 5 = 5 - 4$$

$$\Rightarrow \underline{4} \times \underline{5} = 5 - 4$$

$$\Rightarrow 20 = \underline{5 - 4}$$

$$\Rightarrow 20 \neq 1$$

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

Hence, the correct answer is "Option 2".

### 3. Answer: c

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:

Logic: **Sum of the place value is the code of that word.**

Now,

- 'BRAVE' is coded as '48',

$$\rightarrow B(2) + R(18) + A(1) + V(22) + E(5) = 48.$$

- 'SPEAR' is coded as '59',

$$\rightarrow S(19) + P(16) + E(5) + A(1) + R(18) = 59.$$

Using the same logic for 'VICTOR':

$$\rightarrow V(22) + I(9) + C(3) + T(20) + O(15) + R(18) = 87.$$

So, 'VICTOR' will be coded as '87'.

Hence, the correct answer is **"87"**.

---

#### 4. Answer: d

##### Explanation:

The logic followed here is:

Logic: **(1st number + 2nd number) × 11 = 3rd number.**

Now,

For (11, 20, 341)

$$\rightarrow (11 + 20) \times 11$$

$$\rightarrow 31 \times 11 = 341.$$

For (25, 33, 638)

$$\rightarrow (25 + 33) \times 11$$

$$\rightarrow 58 \times 11 = 638.$$

Similarly, for (12, 32, 484)

$$\rightarrow (12 + 32) \times 11$$

$$\rightarrow 44 \times 11 = 484.$$

Hence, the correct answer is **"Option 4"**.

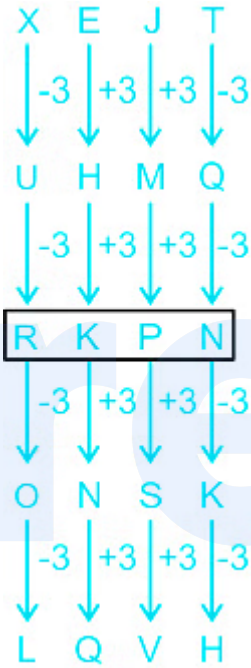
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#### 5. Answer: a

**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:



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

Hence, the correct answer is "RKPN".

**6. Answer: c**

**Explanation:**

Given Statements:

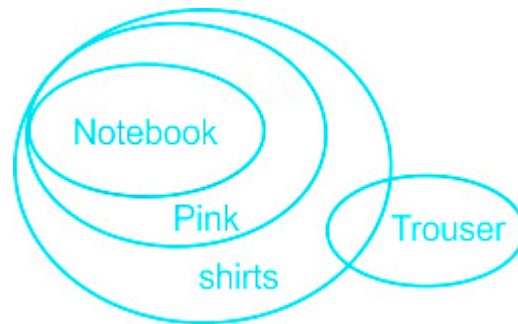
All notebooks are pink.

All pinks are shirts.



Some shirts are trousers.

The least possible Venn diagram for the given statement is:



I. All trousers are notebooks - False (No definite relation given between trousers and notebooks, so it can be possible only).

II. Some trousers are pink - False (No definite relation given between trousers and pink, so it can be possible only).

So, Neither conclusion I nor II follows.

Hence, the correct answer is "Option 3".

---

**7. Answer: a**

**Explanation:**

Family Chart:

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

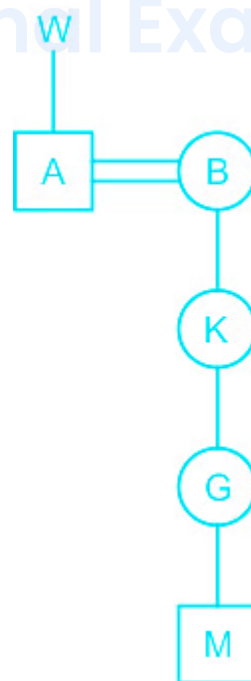
Decoding the Symbols:

Symbol	#	@	&	%	*
Meaning	Brother	Daughter	Husband	Wife	Son

Given: M \* G @ K @ B % A \* W

It means: M is the Son of G, G is the Daughter of K, K is the Daughter of B, B is the Wife of A, A is the Son of W.

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Here, A is the 'Mother's father' of G.

Hence, the correct answer is "Option 1".

## 8. 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:

Logic: **Sum of the place value × 2.**

Now,

- 'TRAVEL' is coded as '156',

$$\rightarrow T(20) + R(18) + A(1) + V(22) + E(5) + L(12) = 78, \text{ and } 78 \times 2 = 156.$$

- 'PERSON' is coded as '174',

$$\rightarrow P(16) + E(5) + R(18) + S(19) + O(15) + N(14) = 87, \text{ and } 87 \times 2 = 174.$$

Using the same logic for 'ALMOND':

$$\rightarrow A(1) + L(12) + M(13) + O(15) + N(14) + D(4) = 59, \text{ and } 59 \times 2 = 118.$$

So, 'ALMOND' will be coded as '118'.

Hence, the correct answer is "118".

## 9. Answer: d

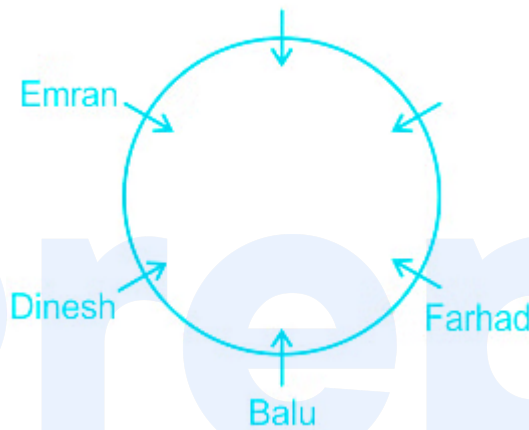
**Explanation:**

Given: Six candidates Anand, Balu, Charan, Dinesh, Emran and Farhad.

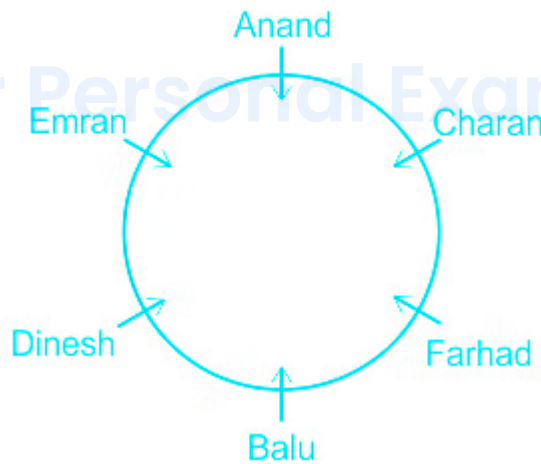
Dinesh is the immediate neighbour of Emran and Balu while If

1) Farhad is to the immediate right of Balu.

2) Dinesh is the immediate neighbour of Emran and Balu.



3) Charan is the immediate neighbour of Anand and Farhad.



So, 'Balu' sits to the immediate right of Dinesh.

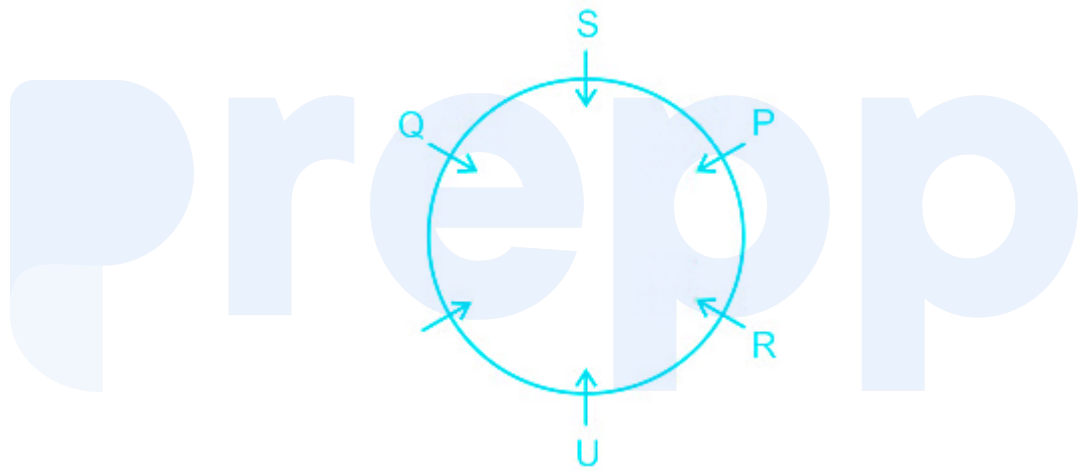
Hence, the correct answer is "Option 4".

10. Answer: c

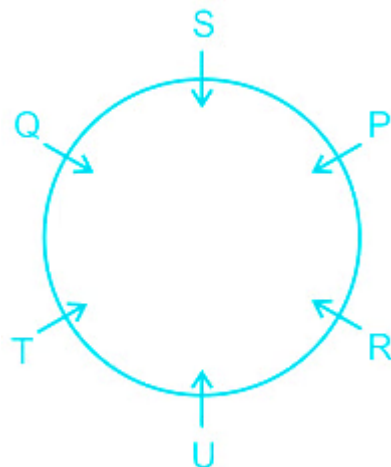
**Explanation:**

Given: Six friends (P, Q, R, S, T and U) are sitting around a circular table facing the centre.

- 1) P sits second to the right of U.
- 2) S and R both are the immediate neighbours of P.
- 3) R sits third to the right of Q.



And, T will sit on the remaining place.



So, 'S' sits between Q and P.

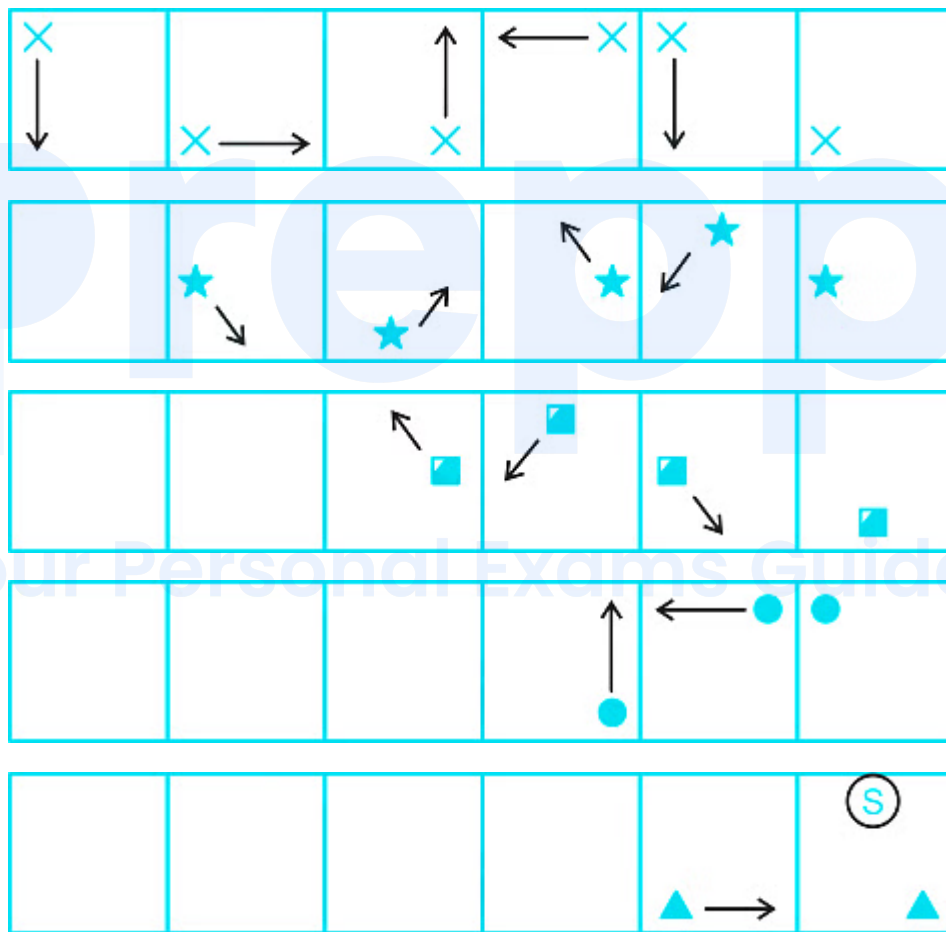
Hence, the correct answer is "Option 3".

11. Answer: b

Explanation:

The logic followed here is:

Logic: The Symbols has shifted one place in next images and one new symbol added from the each next boxes.



So, the complete series will be:











Hence, the correct answer is "Option 2".

12. Answer: a

Explanation:

The image embedded in given figure is as shown below:

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

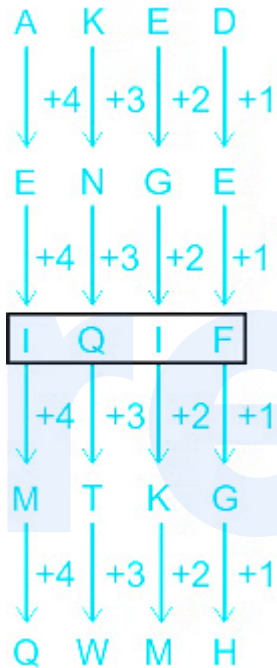
Hence, "Option 1" is the correct answer.

13. 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:



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

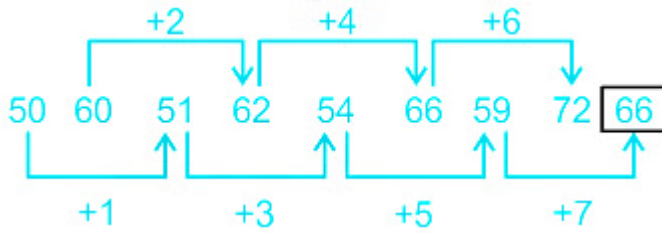
Hence, the correct answer is "IQIF".

**14. Answer: b**

**Explanation:**

The logic followed here is:





So, '66' will complete the series.

Hence, the correct answer is "Option 2".

15. Answer: b

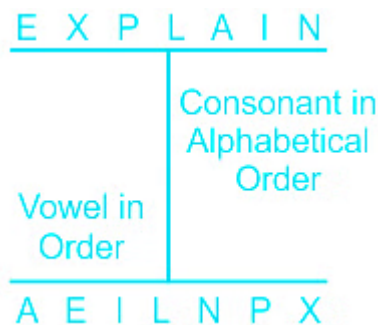
Explanation:

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

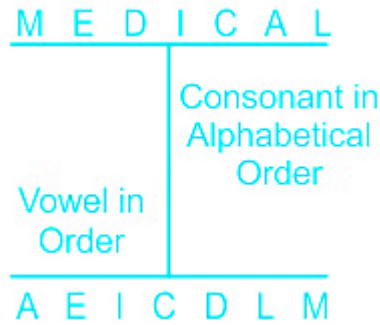
The logic followed here is:

Logic: First Vowels are placed in order then Consonants are placed in Alphabetical order.

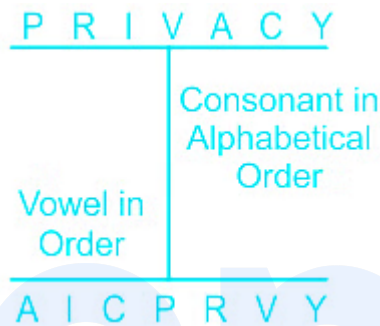
For, EXPLAIN : AEILNPX



For, MEDICAL : AEICDLM



Similarly, for PRIVACY :



Hence, the correct answer is "Option 2".

16. Answer: b

**Explanation:**

The correct order of the words as they would appear in the English dictionary will be:

- 2. Brain
- 1. Bread
- 3. Break
- 5. Bridge
- 4. Broom

So, The correct order is '2, 1, 3, 5, 4'.

Hence, the correct answer is "Option 2".

17. Answer: d

**Explanation:**

The correct mirror image is shown below:



Hence, the correct answer is "Option 4".

18. Answer: c

**Explanation:**

Given equation:  $112 - 14 \div 40 + 8 \times 12 = 64$ .

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:  $112 - 14 \div 40 + 8 \times 12 = 64$

After interchanging the numbers we get;

$$\Rightarrow 112 - 14 + \underline{40 \div 8} \times 12 = 64$$

$$\Rightarrow 112 - 14 + \underline{5 \times 12} = 64$$

$$\Rightarrow \underline{112} - 14 + \underline{60} = 64$$

$$\Rightarrow \underline{172 - 14} = 64$$

$$\Rightarrow 158 \neq 64$$

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

Option 2) + and  $\times$

$$\text{Given: } 112 - 14 \div 40 + 8 \times 12 = 64$$

After interchanging the numbers we get;

$$\Rightarrow 112 - \underline{14 \div 40 \times 8} + 12 = 64$$

$$\Rightarrow \underline{112} - 2.8 + \underline{12} = 64$$

$$\Rightarrow \underline{124 - 2.8} = 64$$

$$\Rightarrow 121.2 \neq 64$$

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

Option 3)  $\div$  and -

$$\text{Given: } 112 - 14 \div 40 + 8 \times 12 = 64$$

After interchanging the numbers we get;

$$\Rightarrow \underline{112 \div 14} - 40 + 8 \times 12 = 64$$

$$\Rightarrow 8 - 40 + \underline{8 \times 12} = 64$$

$$\Rightarrow \underline{8} - 40 + \underline{96} = 64$$

$$\Rightarrow \underline{104 - 40} = 64$$

$$\Rightarrow 64 = 64$$

⇒ LHS = RHS

Option 4) - and +

Given:  $112 - 14 \div 40 + 8 \times 12 = 64$

After interchanging the numbers we get;

⇒  $112 + \underline{14 \div 40} - 8 \times 12 = 64$

⇒  $112 + 0.35 - \underline{8 \times 12} = 64$

⇒  $\underline{112 + 0.35} - 96 = 64$

⇒  $\underline{112.35} - 96 = 64$

⇒  $16.35 \neq 64$

⇒ LHS  $\neq$  RHS

Hence, the correct answer is "Option 3".

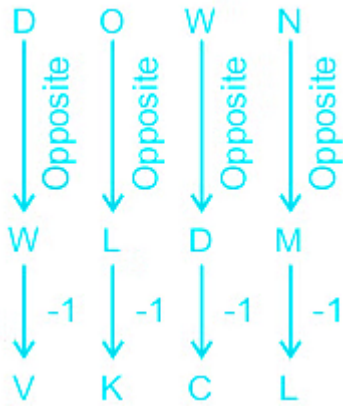
19. Answer: b

Explanation:

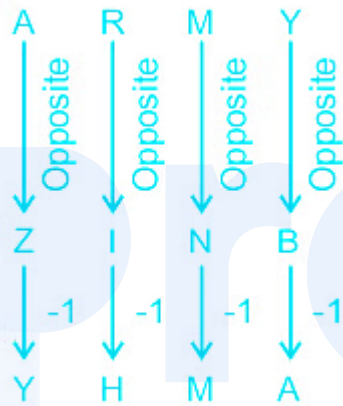
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

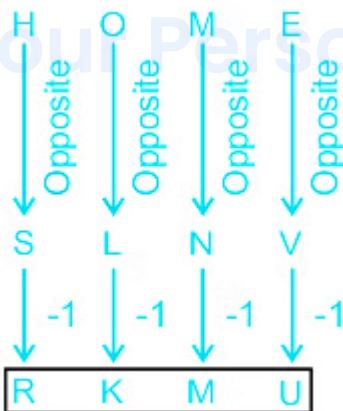
For, DOWN: VKCL



For, ARMY: YHMA



Similarly, for HOME:

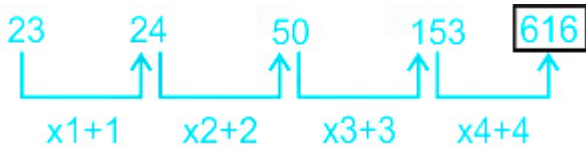


Hence, the correct answer is "Option 2".

20. Answer: c

**Explanation:**

The logic followed here is:



So, '616' will complete the series.

Hence, the correct answer is "Option 3".

**21. Answer: b**

**Explanation:**

The correct answer is Option 2.

★ Key Points

- **National Pension System:** This is a voluntary, defined contribution retirement savings scheme in India that is designed to enable subscribers to make optimal decisions about their future through systematic savings.
- It was introduced by the Indian government in **2004** for government employees and opened to all citizens in **2009**.
- This system allows Indian citizens, including **non-residents**, **between the ages of 18 and 65**, to make contributions towards their **retirement**, with some tax benefits.
- It has two types of accounts: Tier I (**non-withdrawable until retirement**) and Tier II (**voluntary savings account with flexibility to withdraw funds**).

★ Additional Information

- At retirement, the subscriber must use **at least 40%** of the accumulated corpus to buy an annuity providing a **monthly pension**.
- The remaining funds can be withdrawn as a **lump sum**.

- If the total corpus is less than **INR 2 lakhs** at retirement, the subscriber can opt for a complete lump sum withdrawal.
- 

## 22. Answer: b

### Explanation:

The correct answer is Option 2.

### ★ Key Points

Folk dances are specific dances performed at a particular region and have survived from centuries giving us a glimpse of our past and the stories that showcase the dignity of a Particular religion or community.

Prepp

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State	Folk Dances
Goa	<ul style="list-style-type: none"> <li>• Tarangamel</li> <li>• Koli</li> <li>• Dekhni</li> <li>• Fugdi</li> <li>• Shigmo</li> <li>• Ghode</li> <li>• Modni</li> <li>• Samayi nrutya</li> <li>• Jagar</li> <li>• Ranmale</li> <li>• Gonph</li> <li>• Tonnya mell</li> </ul>
Uttar Pradesh	<ul style="list-style-type: none"> <li>• Nautanki</li> <li>• Raslila</li> <li>• Kajri</li> <li>• Jhora</li> <li>• Chappeli</li> <li>• Jaita</li> </ul>
Bihar	<ul style="list-style-type: none"> <li>• Jata-Jatin</li> <li>• Bakho-Bakhain</li> <li>• Panwariya</li> <li>• Sama Chakwa</li> <li>• Bidesia</li> </ul>

23. Answer: d

Explanation:

The correct answer is Option 4.

### ★ Key Points

- The option "4) Higher Education" is not an essential qualification for the candidature of the **President of India**.
- The **President of India** need not have a **higher education degree**.
- The **Constitution of India** does not list educational qualifications as a requirement.
- The **essential qualifications, as per the Constitution of India**, are:
  - The candidate must be a citizen of India.
  - They must be at least 35 years of age.
  - They must be qualified for election as a member of the House of the People.
  - They must not hold an office of profit under the Government of India or the Government of any State or under any local or other authority subject to the control of any of the said Governments.

### ★ Additional Information

- The President of India, as the head of state, has been bestowed with several powers by the Constitution of India. These powers can be broadly classified into the following categories:
  - **Executive Powers:** The President has the authority to appoint the **Prime Minister of India, other ministers, the Chief Justice and judges of the Supreme Court and High Courts, the Governors of states, the Attorney General, the Comptroller and Auditor General, the Chief Election Commissioner and other Election Commissioners, the Chairman and members of the Union Public Service Commission, and Ambassadors and High Commissioners to other countries, among others.**
  - **Legislative Powers:** The President summons and prorogues the two Houses of Parliament. They can dissolve the Lok Sabha and call for new elections.
  - **Financial Powers:** The President causes the Annual Budget (the Union Budget) to be laid before the Parliament.

- **Judicial Powers:** The President has the power to grant **pardons, reprieves, respites or remissions of punishment, or to suspend, remit or commute the sentence of any person convicted of any offense.**
- **Military Powers:** The President is the Supreme Commander of the **Indian Armed Forces.**
- **Emergency Powers:** The President has the power to declare three types of emergencies: **national, state and financial. During the period of any emergency, the powers of the President are greatly extended.**
- **Diplomatic Powers:** The President represents India in **international forums and affairs and sends and receives diplomats.**
- **Veto Powers:** The President has **veto power over all bills passed by the Parliament,** meaning they can withhold their assent, send the bill back for reconsideration, or decide to take no action on the bill.

24. Answer: a

**Explanation:**

The correct answer is Option 1.

★ Key Points

- The Registrar General and Census Commissioner, India, under the Ministry of Home Affairs, is responsible for conducting the decennial Census.

★ Additional Information

- **Ministry of Finance:** This ministry is responsible for the fiscal policy of the government, including managing public finance, preparation of the annual budget, and taxation policies.
  - It consists of five departments: **Department of Economic Affairs, Department of Expenditure, Department of Revenue, Department of Investment and Public Asset Management, and Department of Financial Services.**
- **Ministry of Corporate Affairs:** This ministry deals with the administration of laws related to corporate behavior in India, including the Companies Act, the

Competition Act, and other related laws.

- It also supervises the functioning of professional bodies like **Institute of Chartered Accountants of India (ICAI)**, **Institute of Company Secretaries of India (ICSI)**, and **Institute of Cost Accountants of India (ICAI)**.
- **Ministry of Statistics and Programme Implementation:** This ministry is charged with the coverage and quality aspects of statistics released in the country.
  - The two wings of this ministry are the **Central Statistics Office (CSO)** and **the National Sample Survey Office (NSSO)**.
  - The ministry is also tasked with the implementation of centrally sponsored schemes.

---

## 25. Answer: d

### Explanation:

The correct answer is Option 4.

#### ★ Key Points

- **Topsoil (A Horizon):** This is the uppermost layer of soil, and it is the zone where most of the biological activity occurs.
  - It is rich in organic matter and is composed of a mixture of mineral particles such as sand, silt, and clay, as well as organic matter, water, and air.
  - The topsoil is crucial for plant growth, and it is where most nutrients and biological activity are found.
  - It is typically darker than the layers below due to the organic matter content.

#### ★ Additional Information

- **Subsoil (B Horizon):** This layer is found below the topsoil. It contains fewer organic materials than the topsoil, but it may accumulate minerals, like **iron, aluminum, and clay, that are leached (washed out from upper layers) from the topsoil.**

- This layer is often denser and more compact than the topsoil and can act as a storehouse for minerals and water.
- It's not as fertile as the topsoil and is usually lighter in color.
- **Substratum or Weathered Parent Rock Material (C Horizon):** This layer is below the subsoil and is characterized by less biological activity.
  - It consists mainly of larger rock fragments along with some very weathered parent rock material.
  - The weathering process, which breaks down rocks both physically and chemically, happens very slowly in this layer.
  - This layer serves as a transition between the soil above and the unweathered bedrock beneath it.
- **Unweathered Parent Bedrock (R Horizon):** This is the **bottom layer**, also known as the **bedrock or the unweathered rock**.
- It lies beneath the soil, and it can be composed of a variety of rock types like **igneous, metamorphic, or sedimentary rock**.
- This **bedrock over geological time**, breaks down through weathering and forms the above layers of soil.

26. Answer: c

### Explanation:

The correct answer is Option 3.

### ★ Key Points

- Two-day long annual Hemis festival dedicated to the Guru Padmasambhava began on 26 June 2015 in the largest monastery of Ladakh Hemis Gompa (monastery) of Jammu and Kashmir.
- Hemis festival is celebrated to mark the birth anniversary of Guru Padmasambhava.
- During this festive season, Lamas called 'chhams,' perform masked dances and sacred plays to the accompaniment of cymbals, drums, and longhorns.
- The festival takes an auspicious turn every 12 years in the Tibetan Year of the Monkey when the two-storey-high Thanka depicting Padmasambhava is

displayed.

★ Additional Information

- One of the famous festivals celebrated in Puducherry (formerly known as Pondicherry) is the Puducherry **International Yoga Festival**.
- One of the famous festivals celebrated in Chandigarh is the **Rose Festival**.
- One of the famous festivals celebrated in Lakshadweep is the **Eid-ul-Fitr**. **Eid-ul-Fitr**, also known as "**Festival of Breaking the Fast**," is a significant religious festival celebrated by **Muslims worldwide**, marking the end of Ramadan, the holy month of fasting.

27. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- **Fourth Five Year Plan (1969–1974) :**
  - The fourth Five Year Plan was the **first plan launched by the Indira Gandhi government amid the pressure of drought, devaluation, and inflationary recession.**
  - The country was fighting with **population explosion, increased unemployment, poverty, and a shackling economy.** In addition, the situation in East Pakistan (now independent Bangladesh) was becoming dire as the **Indo-Pakistani War of 1971 and Bangladesh Liberation War** took place.
  - Funds earmarked for industrial development had to be used for the war effort.
  - The result was that this plan period was also no better than the third five-year plan.

★ Additional Information

- **Joseph Stalin** was the **first person to implement the five year plan** in the **soviet union**, in the year **1928**.
- India launched a series of **five year plans after independence** to **build economy and attain development**.
- **The planned budget is spent on five year basis as per priorities fixed by the plan**.
- The model of the **Indian economy** was **premised on the concept of planning based on five year plans from 1951-2017**.
- These plans were formulated, implemented and regulated by body known as **Planning commission**.
- The planning commission was replaced by think tank called **NITI Aayog in 2015**.

28. **Answer: c**

**Explanation:**

The correct answer is Option 3.

★ Key Points

- **The Green Revolution** refers to a period of significant **agricultural transformation** that took place in India in the **mid-20th century**.
- The introduction of **high-yielding varieties of wheat and rice**, along with the use of **modern irrigation techniques** and **chemical fertilizers**, played a crucial role in increasing agricultural productivity.
- **The Green Revolution** was primarily led by **agricultural scientists and policymakers**, with the support of **the Indian government**.
- One of the key figures associated with the Green Revolution in India is **Dr. M.S. Swaminathan**, an **eminent agricultural scientist**. His **research and efforts in developing high-yielding crop varieties** helped **revolutionize Indian agriculture**.
- The implementation of the **Green Revolution** resulted in **significant increases in agricultural production**, particularly in **wheat and rice**.



## 29. Answer: a

### Explanation:

The correct answer is Option 1.

#### ★ Key Points

- **The Asian Games 2018** was a multi-sport continental competition that took place in **Jakarta and Palembang**.
- It took place from **August 18 to September 2, 2018**.
- **The Indonesian metropolis of Jakarta** and the provincial capital of South Sumatra, Palembang, jointly hosted the Summer Asian Games for the first time.
- For ten years running, **China has led the medal count**.
- **Rikako Ikee**, a Japanese swimmer, was named the most valuable player.

#### ★ Additional Information

- In September and October 2002, Busan, South Korea hosted the 14th Asian Games.
- Japan held the **third and twelfth Asian Games**, respectively, in Tokyo in 1958 and Hiroshima in 1994.
- The country will host the tournament for the third time when the 20th Games take place in **Aichi-Nagoya in 2026**.
- The multisport Asian Games of **2022** were held in **Hangzhou, Zhejiang, China**.

#### ★ Important Points

- **The Asian Games 2022**, due to be held in Hangzhou, China, have been postponed to 2023 due to rising COVID-19 cases in the country.
- The Asian Games 2022 were originally scheduled from **September 10 to 25, 2022**.
- The World University Games 2021, to be held from June 26 to July 27 in Chengdu, have also been pushed to 2023.



30. Answer: d

Explanation:

The correct answer is Option 4.

★ Key Points

- **Aparna Satheesan** is a **Kuchipudi and Bharatanatyam dancer, choreographer and teacher**.
- She is well known globally for her ability to use creativity in presenting innovative ideas through multiple **classical dance forms of India**.
- She was awarded the **Abhinandan Saroja award** for her contribution to classical dance in **November 2021**.
- The selection panel of judges included very famous dancers like **Dr Swati Daithankar, Sri. Narendra Kumar, Smt. Sukanya Mahadevan and Smt. Aparna Ramesh**.
- **Aparna Satheesan** win the **Prestigious National Nritya Shiromani Award 2022** in Kuchipudi.

★ Additional Information

- Some famous classical dancers

Bharathanatyam	Rukmini Devi Arundale, Tanjore Balasaraswati
Kuchipudi	Vempati China Satyam, Yamini Krishnamurthy
Mohiniyattam	Kalamandalam Kalyanikutty Amma, Mrinalini Sarabhai
Kathak	Pandit Birju Maharaj, Shovana Narayan, Lachu Maharaj
Manipuri	Guru Bipin Singh
Odissi	Kelucharan Mohapatra

31. Answer: d

**Explanation:**

The correct answer is 2kg in weight and 22cm in diameter.

★ Key Points

- The weight of discus for men is 2.00 kg.
- Discus throw comes under Track and Field Throwing Events.
- Athletes throw or discus throw is a metal disc weighing 2kg for men.
- It is 22cm in diameter for men, and 18cm for women.
- **With reference to the 'Discus Throw' event, the weight of a metal disc for women is 1 kg.**
- The discus must be thrown from a circle 2.5 metres in diameter and should fall within a 40° sector marked on the ground from the centre of the circle.

★ Additional Information

Your Personal Exams Guide

Sport	Equipment	Standard Diameter (approx.)	Standard Weight (approx.)
Baseball	Baseball	7.3 cm (2.9 inches)	145g (5.1 oz)
Basketball	Basketball	24 cm (9.5 inches)	620g (22 oz)
Golf	Golf Ball	4.27 cm (1.68 inches)	46g (1.62 oz)
Tennis	Tennis Ball	6.7 cm (2.6 inches)	58g (2 oz)
Soccer	Soccer Ball	22 cm (8.65 inches)	430g (15 oz)
Volleyball	Volleyball	21 cm (8.3 inches)	270g (9.5 oz)
Cricket	Cricket Ball	7.3 - 7.5 cm (2.9 inches)	160g (5.6 oz)
Rugby	Rugby Ball	Length: 28 cm (11 inches)	410g (14.5 oz)
American Football	Football	Length: 28 cm (11 inches)	420g (15 oz)

32. Answer: d

Explanation:

The correct answer is III.

★ Key Points

- As per World Steel Association data, **India became the second-largest steel producer of crude steel** after China in 2019, by replacing Japan.
- India's crude steel production in **2019 was at 111.2 MT**, an increase of 1.7 percent from 109.3 MT in 2018.
- **China remains number one** with 996.3 million tonnes in 2019.
- **The United States and Russia rank fourth and fifth respectively.**

★ Additional Information

- India's crude steel production in 2018 was reported at 109.3m tonnes, an increase of 7.7% from 2017. In 2019, this increased to 111.2m tonnes.
- The growth in the Indian steel sector has been driven by the easy availability of raw materials, labour as well as a steadily expanding construction market.
- India's steel demand is **expected to rise by 7.2% in 2019-20**. The demand growth for steel is expected to remain unchanged at **7.2% in 2020-21**.
- **The Government has launched the Purvodaya program which aims accelerated the development of eastern India with an integrated steel hub.**
- Here is the list of Top 5 Crude steel producers in the world in 2019:

Rank	Country	Quantity(mt)
1	China	996.3
2	India	111.2
3	Japan	99.3
4	USA	87.9
5	Russia	71.6

33. Answer: a

Explanation:

The correct answer is Arsenic.

★ Key Points

- **Arsenic (As):**
  - Arsenic is a chemical element with the **symbol As** and **atomic number 33**.
  - Arsenic is a **metalloid**. It has various **allotropes**.
  - The primary use of arsenic is in **alloys of lead** (for example, in **car batteries and ammunition**).
  - Arsenic is a common **n-type dopant** in **semiconductor electronic devices**.

- It is also a component of the III-V compound semiconductor **gallium arsenide**.
- Arsenic and its compounds, especially **trioxide**, are used in the production of **pesticides, treated wood products, herbicides, and insecticides**.
- **Arsenic contamination of groundwater is a problem that affects millions of people across the world.**

★ Additional Information

- **Barium**
  - Barium is a chemical element represented by the symbol **Ba** and atomic number **56** on the periodic table.
  - It is a **soft, silvery alkaline earth metal**.
- **Neon**
  - Neon is a chemical element with the symbol **Ne** and atomic number **10**.
  - It's a **noble gas** that is colorless, odorless, and tasteless.
- **Iodine**
  - Iodine is a chemical element with the symbol **I** and atomic number **53** on the periodic table.

34. Answer: d

Explanation:

The correct answer is Reserve bank of India.

★ Key Points

- According to Section 22 of the RBI Act, 1934 the Reserve Bank of India has sole right to issue currency or print currency in India.
- Section 25 of the RBI Act, 1934 provides that the design, form, and material of bank notes shall be such as may be approved by the Central Government after consideration of the recommendations made by the Central Board of RBI.
- Section 24 of the RBI Act 1934 states that the maximum denomination of notes printed in India is Rs.10000.

- Section 26 of the RBI Act 1934 states the legal tender character of Indian banknotes.

★ Additional Information

- RBI was established on April 1, 1935, under the Reserve Bank of India Act, of 1934.
- Current Governor of RBI is Shri Shaktikanta Das(25th).
- Sir Osborne Smith was the first governor of RBI and C.D. Deshmukh was the first Indian governor of RBI.
- It operates the currency and credit system of the country.
- It is called the Bankers Bank of India.
- It formulates, implements, and monitors monetary policy.

35. Answer: d

**Explanation:**

The correct answer is Suman Bery.

★ Key Points

- NITI Aayog's Vice Chairman Rajiv Kumar has **stepped down** after being at the helm of the institution for nearly **five years**.
- **Dr. Suman K Bery** has been appointed **new Vice Chairperson of NITI Aayog**.
- He will take charge as Vice Chairperson of NITI Aayog from 1 May 2022.
- Suman K Bery had earlier served as Director-General of the National Council of Applied Economic Research (NCAER) in New Delhi.
- NCAER is one of the country's leading independent non-profit policy research institutions.

★ Additional Information

- NITI Aayog:
  - On **January 1, 2015**, the NITI Aayog (**National Institution for Transforming India**) was established as the successor to the planning commission.
  - It was created by an **executive resolution** of the Government of India.

- NITI Aayog is the premier policy 'Think Tank' of the Government of India, providing both directional and policy inputs.
- In a **paradigmatic shift from the command and control approach** of the past, NITI Aayog **accommodates diverse points of view** in a collaborative, rather than confrontational, setting.

36. Answer: c

**Explanation:**

The correct answer is Pataliputra.

★ Key Points

- As the **Mauryan empire** was so large, different parts were ruled differently.
- The area around Pataliputra was under the direct control of the emperor.
- This meant that officials were appointed to **collect taxes** from farmers, herders, craftspersons and traders, who lived in villages and towns in the area.
- Many of these officials were given salaries.
- Messengers went to and **fro** and **spies** kept a watch on the officials.
- And of course, the emperor supervised them all, with the help of members of the royal family, and senior ministers.
- There were other areas or provinces. Each of these was ruled from a provincial capital such as Taxila or Ujjain. Although there was some amount of control from Pataliputra, and royal princes were often sent as governors, local customs and rules were probably followed. Besides, there were vast areas between these centres.
- Here the Mauryas tried to control roads and rivers, which were important for transport, and to collect whatever resources were available as tax and tribute.
- **For example, the Arthashastra tells us that the north-west was important for blankets, and south India for its gold and precious stones.** It is possible that these resources were collected as tribute.

★ Additional Information

Maurya Empire-

- The Maurya Empire was founded by Chandragupta Maurya. He reigned from 321-297 BCE.
- Bindusara was the second emperor of the Mauryan Empire.
- He was the son of Chandragupta Maurya. He reigned from 297-273 BCE
- Ashoka, the most famous ruler was the son of Bindusara. He succeeded his father, Bindusara.
- He reigned from 273-232 BCE.
- Brihadratha was the last ruler of the Maurya dynasty.
- He reigned from 187-180 BCE. He was killed by Pushyamitra Shunga who then established the Shunga dynasty.

### 37. Answer: d

#### Explanation:

The correct answer is March 1919.

#### ★ Key Points

- The **Khilafat Committee** was formed in **Bombay in March 1919**.
- The Khilafat Movement, which began in **1919**, **brought the Muslims and the Hindus on a common platform against British rule**, was the most important cause of the **Non - Cooperation Movement**.
- **Aim:**
  - The Khilafat movement was initiated under the leadership of the two Ali brothers namely Mohammed Ali and Shaukat Ali-Maulana Azad, Hakim Ajmal Khan, and Hasrat Mohani.
  - The movement was started to support the Sultan of Turkey whom The Muslim population in India considered their religious head.
- Mahatma Gandhi saw the Khilafat agitation as "**an opportunity not to unite Hindus and Muslims in a hundred-year's time.**" Also, the **Muslim League gave full support to the National Congress** and its political agitation.
- The leaders of this Khilafat movement accepted the non-cooperation movement of Gandhiji and led a joint protest against the British.



- The **Khilafat Movement and the Congress Non-Cooperation Movement merged into one nationwide movement** by the year-end of 1920.
- In **1921**, the Khilafat Committee put a note to all the Muslims asking not to join the police and armed forces and not to pay taxes.
- Unfortunately, the whole movement was **abruptly called off on February 12, 1922**, at Gandhiji's insistence, proceeding the news of the **Chauri Chaura incident**.

38. Answer: c

### Explanation:

The correct answer is Only II.

#### ★ Key Points

- **Red blood cells** might appear round in some microscopic images, their actual shape is more complex.
  - **Red blood cells are bio-concave disks**, which means **they are disk-shaped but indented on both sides, almost like a donut without a hole**.
  - This shape increases the **cell's surface area, allowing for more efficient gas exchange**.
- **Muscle cells – Spindle shape:**
- Many types of **muscle cells, specifically skeletal and smooth muscle cells, are elongated and often referred to as spindle-shaped**.
- This shape aids in their function of contraction and movement.

#### ★ Additional Information

- **Blood cells are the cells that circulate in the blood and make up most of its solid component**.
- They are produced in the bone marrow and have a variety of functions that are necessary for life.
- Blood cells can be grouped into **three types**:
  - **Red Blood Cells (RBCs) or Erythrocytes:** These are the most common type of blood cell and the body's principal means of **delivering oxygen to body**

tissues via the blood. RBCs contain hemoglobin, a protein that binds to oxygen.

- They have a unique **biconcave disc shape** that allows them to maneuver through the smallest blood vessels and increases their surface area to facilitate the diffusion of oxygen.
- **White Blood Cells (WBCs) or Leukocytes:** These cells are part of the immune system and help the body fight infections and other diseases.
- They are much fewer in number than **red blood cells**.
- There are several types of white blood cells, including **neutrophils, lymphocytes, monocytes, eosinophils, and basophils**, each with its own function in the immune response.
- **Platelets or Thrombocytes:** These are small, colorless cell fragments in our blood that form clots and stop or prevent bleeding.
- Platelets are essential for coagulation, which is the process of blood clot formation to stop bleeding following a **vascular injury**.

---

39. Answer: a

Explanation:

The correct answer is To provide opportunities for education to one's child or ward between the ages of six and fourteen years.

★ Key Points

- **The 42nd Amendment of the Constitution of India:**
  - The 42<sup>nd</sup> Amendment of the Constitution of India was enacted in the **year 1976**.
  - It is officially known as the Constitution Act, of 1976.
  - It was enacted during the Emergency by the Indian National Congress Head Indira Gandhi.
  - It is considered the most controversial Constitutional Amendment in Indian history.
  - Added three new Directive Principles viz., equal justice and free legal aid, the participation of workers in the management of industries, and

protection of the environment, forests, and wildlife.

- Provided for the creation of the All-India Judicial Service.  
Shortened the procedure for disciplinary action by taking away the right of a civil servant to make representation at the second stage after the inquiry (i.e., on the penalty proposed).
- It is often called a "mini-Constitution" or the "Constitution of Indira".

★ Additional Information

- There are three ways in which the Constitution can be amended:-
  - Amendment by a simple majority of the Parliament
  - Amendment by a special majority of the Parliament
  - Amendment by a special majority of the Parliament and the ratification of at least half of the state legislatures.
- Amendment by a **simple majority**-
  - Admission or establishment of new states, Formation of new states, Rules of procedure in Parliament, Salaries and Allowances, etc are covered under this.
- Amendment by the **special majority**-
  - The special majority- a majority of 2/3rd members present and voting supported by more than 50% of the total strength of the house.
  - The provisions which can be amended by this way include (i) Fundamental Rights; (ii) Directive Principles of State Policy; and (iii) All other provisions which are not covered by the first and third categories.
- Amendment by a **special majority of the Parliament and the ratification of at least half of the state legislatures**-
  - Those provisions of the Constitution which are related to the federal structure of the polity can be amended by this.
  - For instance, the election of the president, distribution of legislative powers between union and states, any of the lists in the seventh schedule, etc.

40. Answer: c

Explanation:

The correct answer is Rama Subramaniam Gandhi.

★ Key Points

- His appointment was recommended by the **Board of Directors of Yes Bank**, and his term is set for a period of three years starting from September 20, 2022.
- R. Gandhi, born in **1956**, started his career at the RBI in 1980 and held various positions over the years.
- He has extensive experience in **financial sector policy**, regulation, payment systems, FinTech, and currency management<sup>3</sup>.
- He was the Deputy Governor of RBI from **2014 to 2017**, where he managed portfolios including banking, non-banking and cooperative banking regulation, risk management, and currency management among others.
- He was also one of the initial members of the Monetary **Policy Committee**<sup>32</sup>.

★ Additional Information

- Yes Bank Limited is an Indian private sector bank headquartered in Mumbai, India.
- It was founded by Rana Kapoor and Ashok Kapur in 2004.

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41. **Answer: c**

**Explanation:**

**Given:**

The original price of each toy is Rs. 50.

The discount on each toy is 10%.

The total savings is Rs. 450.

**Concept:**

The savings on each toy is equal to the discount.

The total savings is equal to the savings on each toy multiplied by the number of toys.

**Solution:**

⇒ The savings on each toy = Original price × Discount% =  $50 \times 0.1 = \text{Rs. } 5$ .

⇒ The number of toys = Total savings/Savings on each toy =  $450/5 = 90$  toys.

**Therefore, the answer is 90 toys.**

---

**42. Answer: c**

**Explanation:**

**Given:**

The jogger covers one-third of the distance covered by the cyclist in double of the time taken by the cyclist.

**Concept:**

The speed is the ratio of distance to time.

**Solution:**

The ratio of the jogger's speed to the cyclist's speed =  $(1/3)/2 = 1/6$ .

**Hence, the ratio of the speed of the jogger to that of the cyclist is 1: 6**

---

**43. Answer: a**

**Explanation:**

**Given:**

The cost price of the item is Rs.950.

The selling price of the item is Rs.1,150.

**Concept:**

The percentage profit is calculated by the formula:

$$\left(\frac{\text{Selling price} - \text{Cost price}}{\text{Cost price}}\right) \times 100\%$$

**Solution:**

$$\Rightarrow \text{The percentage profit} = \left(\frac{1,150 - 950}{950}\right) \times 100\% = 21\%$$

**Therefore, her percentage profit is 21%**

---

**44. Answer: c**

**Explanation:**

Given:

The shopkeeper offers a discount of 7.5% on the marked price and a cashback of ₹10 per item.

The shopkeeper earns ₹5 per item.

The marked price of each item is ₹x.

**Concept:**

The cost price of each item is equal to the marked price minus the discount and cashback plus the profit.

**Solution:**

$$\Rightarrow \text{The cost price} = x \times (1 - 0.075) - 10 - 5 = 0.925x - 15$$

**Hence, the cost price of each item is  $0.925x - 15$**

45. Answer: a

**Explanation:**

**Given:**

After deducting 15% from a certain sum and then 25% from the remainder, there is ₹4,335 left.

**Concept:**

Sequential percentage reductions can be calculated by applying the percentage reductions one after the other.

**Solution:**

The original sum after 25% increment (before the second reduction) would be  $100/75 \times ₹4,335 = ₹5,780$ .

The original sum before both reductions would be  $100/85 \times ₹5,780 = ₹6,800$ .

Therefore, the original sum was ₹6,800

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46. Answer: a

**Explanation:**

**Given:**

The expenditure of a man is 70% of his income.

His income will successively increase by 20% and 50%.

His new savings become 2.5 times of the previous savings.

**Concept:**

For the new expenditure to increase, the ratio of the new expenditure to the old must be greater than 1.

**Solution:**

We know that savings = income - expenditure.

⇒ The initial income = 100 (assume), initial expenditure = 70, initial savings = 30.

⇒ After successive increments, new income =  $100 \times 1.2 \times 1.5 = 180$ .

⇒ New savings =  $2.5 \times \text{initial savings} = 2.5 \times 30 = 75$ .

⇒ Therefore, new expenditure = new income - new savings =  $180 - 75 = 105$ .

⇒ The new expenditure is  $105 - 70 = 35$  more than the previous expenditure.

⇒ This represents an increase of  $(35/70) \times 100 = 50\%$ .

Therefore, the new expenditure is 50% more than the previous expenditure

---

47. **Answer: a**

**Explanation:**

**Given:**

A completes 80% of a work in 20 days.

B joins A and they complete the remaining work in 3 days.

**Concept:**

Work is divided among individuals according to their rates of work done.

**Solution:**

A's rate of work =  $80\%/20 = 4\%$  per day.



A and B together complete 20% of the work in 3 days, so their combined rate of work =  $20\%/3 = 6.67\%$  per day.

Therefore, B's rate of work =  $6.67\% - 4\% = 2.67\%$  per day.

Hence, B alone would take  $100\%/2.67\% = 37.5$  days to complete the whole work.

**Therefore, B alone will take approximately  $37 \frac{1}{2}$  days to complete the whole work.**

---

**48. Answer: c**

**Explanation:**

**Given:**

A cuboidal room of length 10 m, breadth 6 m, and height 8 m.

**Concept:**

The maximum length of a rod that can be kept in a cuboidal room is equal to the room's diagonal, which can be calculated using the 3D Pythagorean theorem.

**Solution:**

The diagonal (d) =  $\sqrt{(\text{length}^2 + \text{breadth}^2 + \text{height}^2)}$

$\Rightarrow \sqrt{(10^2 + 6^2 + 8^2)} = \sqrt{(100 + 36 + 64)} = \sqrt{200} = 10\sqrt{2}$  m.

Therefore, the maximum length of the rod that can be kept in the room is  $10\sqrt{2}$  m.

---

**49. Answer: a**

### Explanation:

#### Given:

The ratio of cheese to sauce for a single pizza is 1 cup to  $1/2$  cup.

Rama used 15 cups of sauce.

#### Concept:

The amount of cheese used is calculated based on the given ratio and the amount of sauce used.

#### Solution:

The number of cups of cheese = Ratio of cheese to sauce  $\times$  Number of cups of sauce =  $2 \times 15 = 30$  cups.

Therefore, Rama used 30 cups of cheese for the pizzas.

---

### 50. Answer: d

### Explanation:

#### Given:

The bicyclist travels 20 miles in 2 h and 30 min and 10 miles in 1 h 15 min.

#### Concept:

The average speed is total distance divided by total time.

#### Solution:

Total distance = 20 miles + 10 miles = 30 miles.

Total time = 2.5 hours + 1.25 hours = 3.75 hours.

Average speed = Total distance/Total time = 30 miles/3.75 hours = 8 miles/hour.

Therefore, the average speed of the bicyclist is 8 miles per hour

---

**51. Answer: b**

**Explanation:**

Given:

Sakshi and Komal together can complete a work in 10 days.

Komal alone can complete the same work in 22 days.

Sakshi left work after 3 days.

**Concept:**

Work = Efficiency x Time.

**Solution:**

Total work = LCM(10, 22) = 110 units

Efficiency of Sakshi and Komal together =  $110/10 = 11$

Efficiency of Komal =  $110/22 = 5$

Work done by Sakshi and Komal in 3 days =  $11 \times 3 = 33$  units

Remaining work =  $110 - 33 = 77$  units

Days taken by Komal to complete the remaining work =  $77/5$  days

Total number of days in which work is completed =  $3 + 77/5 = 92/5$  days.

Therefore, total number of days in which work is completed =  $3 + 77/5 = 92/5$  days.

---

52. Answer: a

**Explanation:**

Given:

The bank offers compound interest at a rate of 10% per annum, compounded half-yearly.

The customer deposits Rs.3,200 each on 1st January and 1st July of a year.

**Concept:**

When interest is compounded half-yearly, the rate is divided by 2 and the time is multiplied by 2.

**Solution:**

The interest for the first deposit for one year

$$\Rightarrow P(1 + r/200)^{2t} - P = 3200(1 + 10/200)^2 - 3200 = ₹328.$$

The interest for the second deposit for six months

$$\Rightarrow P(1 + r/200)^t - P = 3200(1 + 10/200) - 3200 = ₹160.$$

$$\Rightarrow \text{Total interest} = ₹328 + ₹160 = ₹488.$$

Therefore, at the end of the year, the customer will receive ₹488 as interest

53. Answer: a

**Explanation:**

Calculation:

$$\Rightarrow \frac{16 \times 9 \div 4 \text{ of } 2}{3 \times (9-6) - 2 \times 3 \div 4 \text{ of } \frac{1}{2}}$$

$$\Rightarrow \frac{16 \times 9 \div 4 \times 2}{3 \times (9-6) - 2 \times 3 \div 4 \times \frac{1}{2}}$$

$$\Rightarrow \frac{16 \times 9 \div 8}{3 \times 3 - 2 \times 3 \div 2}$$

$$\Rightarrow \frac{16 \times 9 \times \frac{1}{8}}{3 \times 3 - 2 \times 3 \times \frac{1}{2}}$$

$$\Rightarrow \frac{2 \times 9}{9-3}$$

$$\Rightarrow \frac{18}{6}$$

$$\Rightarrow 3$$

∴ Option 1 is the correct answer.

54. Answer: b

Explanation:

Given:

Principal (P) = ₹5000.

Rate of interest (r) = 4% per annum.

Time (t) = 1 year.

Concept:

The difference between compound interest compounded yearly and half-yearly can be calculated using the respective compound interest formulas.

Solution:

$$\text{CI compounded yearly} = P(1 + r/100)^t - P$$

$$\Rightarrow 5000(1 + 4/100) - 5000 = ₹200.$$

For half-yearly compounding,  $r = r/2 = 4/2 = 2\%$ , and  $t = 2t = 2$ .

$$\text{CI compounded half-yearly} = P(1 + r/200)^{(2t)} - P$$

$$\Rightarrow 5000(1 + 2/200)^2 - 5000 = ₹202.00.$$

$$\text{Difference} = \text{CI}(\text{compounded half-yearly}) - \text{CI}(\text{compounded yearly})$$

$$\Rightarrow ₹202.00 - ₹200 = ₹2.00.$$

Therefore, the difference between the compound interests is ₹2.00

### 55. Answer: d

#### Explanation:

Given:

The ratio of the money between Geeta and Radha is 7 : 15.

The ratio of the money with Radha and Savitha is 7 : 16.

Geeta has ₹980.

Concept:

The total amount of money can be found by equating the common ratio (Radha's money) and solving for the unknown.

Solution:

If Geeta has 7 units, then 1 unit = ₹980/7 = ₹140.

If Radha has 15 units, then Radha has 15 x ₹140 = ₹2100.

If Radha has 7 units, then 1 unit = ₹2100/7 = ₹300.

If Savitha has 16 units, then Savitha has 16 x ₹300 = ₹4800.

Therefore, Savitha has ₹4800

---

**56. Answer: c**

**Explanation:**

**Given:**

The fast local train takes 30 minutes less than the slow local train for a journey of 60 km.

The speed of the slow local train is 20 km/h less than the speed of the fast local train.

**Concept:**

$$\text{Speed} = \text{Distance} / \text{Time}$$

**Solution:**

Let the speed of the slow train be  $x$  km/h.

Then, the speed of the fast train is  $(x + 20)$  km/h.

Time taken by the slow train = Distance/Speed =  $60/x$  hours.

Time taken by the fast train = Distance/Speed =  $60/(x + 20)$  hours.

According to the problem,  $60/x - 60/(x + 20) = 30/60$  (as the time is in minutes, convert it to hours).

Solving the above equation, we get  $x = 40$  km/h.

Therefore, the speed of the slow local train is 40 km/h.

---

**57. Answer: d**

**Explanation:**

**Given:**

A person travels from one place to another at 180 km/h and returns to the starting point by the same route at 240 km/h.

The total time taken is 6 hours.

**Concept:**

The total distance traveled can be calculated by considering the time and speed for each leg of the journey.

**Solution:**

Let the distance between the two places be  $D$  km.

Time taken for the forward journey =  $D/180$  hours.

Time taken for the return journey =  $D/240$  hours.

Total time =  $D/180 + D/240 = 6$  hours.

LCM of 180 and 240 is 720. Multiply both sides of the equation by 720 to eliminate the fractions.

$$4D + 3D = 6 \times 720.$$

$$7D = 4320.$$

$$D = 4320/7 \approx 617.14 \text{ km.}$$

Therefore, the distance between the two places is approximately

617.14 km.



58. Answer: d

**Explanation:**

**Given:**

The length, breadth, and height of a cuboid are 24 cm, 18 cm, and 12 cm respectively.

The length of a side of the cube is 6 cm.

**Concept:**

The number of cubes formed when a cuboid is melted can be calculated by dividing the volume of the cuboid by the volume of a cube.

**Solution:**

Volume of the cuboid = Length  $\times$  Breadth  $\times$  Height

$$\Rightarrow 24 \text{ cm} \times 18 \text{ cm} \times 12 \text{ cm} = 5184 \text{ cm}^3.$$

$$\text{Volume of a single cube} = (6 \text{ cm})^3 = 216 \text{ cm}^3.$$

Number of cubes formed = Volume of the cuboid / Volume of a single cube

$$\Rightarrow 5184 \text{ cm}^3 / 216 \text{ cm}^3 = 24 \text{ cubes.}$$

Therefore, the number of cubes formed is 24.

---

59. Answer: c

**Explanation:**

**Given:**

The numbers 73, 115, and 185 are divided by a number to leave the same remainder.

**Concept:**

To find the greater possible number that divides all three given numbers leaving the same remainder, we need to find their greatest common divisor (GCD).

**Solution:**

GCD of  $(115 - 73)$  and  $(185 - 73) = \text{GCD of } 42 \text{ and } 112 = 14.$

GCD of 14 and  $(185 - 115) = \text{GCD of } 14 \text{ and } 70 = 14.$

Therefore, the greater possible number that divides all three given numbers leaving the same remainder is 14

---

**60. Answer: c**

**Explanation:**

**Given:**

Shopkeeper using a faulty weight while professes to sell the article at cost price and gains a profit of 25%.

**Calculation:**

Let  $x$  be the weight the shopkeeper uses.

The shopkeeper gains 25% profit, so  $1.25x = 1000$

$$\Rightarrow x = 800$$

Therefore, the faulty weight he uses for 1000g is 800g.

---

61. Answer: a

**Explanation:**

The correct answer is 'Option 1'.

★ Key Points

- The sentence given "*We were holding the things with a strong rope.*" is in the **past continuous tense**.
- The equivalent future tense form of this sentence would involve using "**will be**" as the auxiliary verb.
- Hence, "*We will be holding the things with a strong rope*" (**Option 1**) is the right **choice** here.

Therefore, the **correct answer** is:- '*We will be holding the things with a strong rope*'.

★ Additional Information

- **Option 2** uses the present perfect continuous tense and thus doesn't fit as the future tense form.
- **Option 3** is grammatically incorrect.
- **Option 4** uses the present continuous tense, not the future tense required.

62. Answer: d

**Explanation:**

The correct answer is 'Option 4' i.e. 'Bat'.

★ Key Points

- A blank in the sentence is for an animal, and the other for an equipment related to cricket.
- A '**bat**' is a nocturnal animal, and **it's also the term** for the equipment used in cricket.
- Therefore, 'bat' (**Option 4**) **correctly fills** both the blanks.

Therefore, the **correct sentence** is: '*A **bat** is a nocturnal animal and a **bat** is needed for the game of cricket.*'

★ Additional Information

- '**Ball**' (Option 1) and '**bale**' (Option 2) can be used in the context of cricket but neither are nocturnal animals.
- '**Goal**' (Option 3) is related to other sports like football, not cricket and neither is it a nocturnal animal.

---

63. **Answer: b**

**Explanation:**

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

★ Key Points

- The blank in the sentence **requires an adjective** which refers to a feeling of sadness or depression.
- '**Blue**' (Option 2) fits this context correctly, as it's an idiom that means feeling sad or depressed (उदास या निराश).
- So, the filled sentence would be: "*Her face was blue after seeing the house in such condition.*"

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

★ Additional Information

- '**Bedew**' (Option 1) is a verb which means to wet with or as with dew ('ओस से गीला करना'), which doesn't make sense in this context.

- 'Brew' (Option 3) can refer to making a hot drink like tea or coffee ('भूना' or 'पकाना'), or to a plan forming (योजना बना), but neither fit well here.
- 'Blew' (Option 4) is the past tense of the verb 'blow' (फूंकना), and isn't coherent in this context.

---

## 64. Answer: b

### Explanation:

The correct answer is 'Option 2' i.e. 'Had barely made it'.

#### ★ Key Points

- The **provided sentence has a** tense inconsistency, using "has" (present perfect) with "when" (used with past simple) in "She has barely made it to the airport, when she heard the news of her dad's accident."
- The **correct auxiliary verb to use** would be 'had', making the sentence "She had barely made it to the airport, when she heard the news of her dad's accident." (Option 2).

Therefore, the **correct answer** is- '*Had barely made it*'.

#### ★ Additional Information

- 'Have barely made it' (Option 1) is in present perfect, not past perfect and is therefore incorrect.
- 'Is barely making it' (Option 4) changes the sentence to present continuous, which is also incorrect.

---

## 65. Answer: a

### Explanation:

The correct answer is 'Option 1' i.e. 'fair; fare'.

★ Key Points

- The **first blank requires a noun** used to describe an event or gathering, and the **second blank needs a term** for a type of charge or cost.
- '**Fair**' is a term used to describe a gathering or event, often for entertainment or trading purposes (मेला), which suits the first blank.
- '**Fare**' refers to the money paid for a journey on public transport (किराया), fitting the second blank.

Therefore, the **correct sentence** is: '*I want to see the Dussehra fair in Delhi, what is the second-class railway fare from Agra to Delhi.*'

★ Additional Information

- '**Fare; fair**' (Option 2) swaps the words, making the sentence grammatically incorrect and contextually incoherent.
- '**Fair; fair**' (Option 3) and '**fare; fare**' (Option 4) both use the same word for two different contexts, which is incorrect.

---

66. **Answer: b**

**Explanation:**

The correct answer is '**Option 2**'.

★ Key Points

- "**Flash in the pan**" is an idiom that refers to something that shows great promise at the beginning but ultimately fails to meet expectations.
- Option 2, "Something that looks promising in the beginning but fails to deliver anything in the end", accurately represents this idiom

Therefore, the **correct answer** is- '**Option 2**'.

---

67. **Answer: c**

## Explanation:

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

### ★ Key Points

- "Autonomy" refers to the right or condition of self-government, independence or freedom (स्वशासन, स्वतंत्रता या आजादी की स्थिति या अधिकार).
- "Dependency" (Option 3) signifies reliance on someone or something for support or help, which serves as an appropriate antonym (किसी के उपर निर्भरता या सहारा).

Therefore, the correct answer is- 'Dependency'.

### ★ Additional Information

- "Temperance" (Option 1), meaning moderation in action, thought, or feeling, does not function as an antonym for "Autonomy" (क्रिया, विचार या भावना में संयम).
- "Partiality" (Option 2), meaning an unfair favoritism or bias, does not correlate with the concept of autonomy (अनुपक्षपात).
- "Righteousness" (Option 4), signifying the quality of being morally right or justifiable, isn't an opposing concept to autonomy (धर्मनिष्ठता).

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### 68. Answer: a

## Explanation:

The correct answer is 'Option 1'.

### ★ Key Points

- The sentence "Your health could suffer if you spend more time with the automobiles." uses a phrase in a context where a substitute would be more appropriate.
- The phrase "in front of electronic devices" (Option 1) makes the sentence read, "Your health could suffer if you spend more time in front of electronic devices"

which implies the negative impact of prolonged screen time, a commonplace idea.

Therefore, the **correct answer** is- *'In front of electronic devices'*.

★ Additional Information

- 'In backlog of machines' (Option 2) and 'besides the machines' (Option 3) are grammatically incorrect and contextually unclear.
- 'After the digital devices' (Option 4) doesn't convey the intended sentiment of excessive usage causing health issues.

---

69. Answer: a

**Explanation:**

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

★ Key Points

- "Compact" is a word which means closely and neatly packed together; small and convenient (संक्षिप्त या संगठित)
- "Dense" (Option 1) meaning closely compacted in substance or packed, serves as the best synonym for "compact" (सघन)

Therefore, the **correct answer** is- 'Dense'.

★ Additional Information

- "Expand" (Option 2) meaning to become or make larger or more extensive (विस्तार) is not a suitable synonym for "Compact"
- "Whole" (Option 3) meaning all of; entire (संपूर्ण) is not a suitable synonym for "Compact"
- "Holistic" (Option 4) meaning dealing with or treating the whole of something or someone and not just a part (समग्र) is not a suitable synonym for "Compact"



70. Answer: a

**Explanation:**

The correct answer is 'Option 1'.

★ Key Points

- "Go the extra mile" is an idiom that means to make more effort than is expected of you (सामान्य से अधिक प्रयास करना)
- "Do much more than required" (Option 1) accurately represents the meaning of this idiom (अनिवार्यतः अधिक करना)

Therefore, the correct answer is- '*Do much more than required*'.

★ Additional Information

- "Spend more money than required" (Option 2), "Walk more than required" (Option 3), and "Talk more than required" (Option 4) do not adequately capture the meaning of the idiom "Go the extra mile".

71. Answer: c

**Explanation:**

The correct answer is 'Option 3'.

★ Key Points

- The sentence "Prince Charles became a youngest heir to the throne at the age of seven" uses indefinite articles ("a") inappropriately with superlative adjective ("youngest").
- The correct sentence should use the definite article 'the'.
- Thus, Option 3 "the youngest heir to the throne" is the correct substitution.

Therefore, the **correct sentence** is: *'Prince Charles became the youngest heir to the throne at the age of seven.'*

★ Additional Information

- 'The youngest heir to an throne' (**Option 1**) incorrectly uses 'an' before 'throne'. Considering 'throne' doesn't start with a vowel, the correct article is 'the', not 'an'.
- 'A youngest heir to a throne' (**Option 4**) uses the same faulty grammar as the original sentence.

---

72. **Answer: c**

**Explanation:**

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

★ Key Points

- "Insidious" refers to something lacking flavor, tasteless, or uninteresting (स्वादहीन या नीरस).
- "Tasty" (Option 3) signifies something that has a good flavor or taste, serving as an appropriate antonym (स्वादिष्ट).

Therefore, the **correct answer** is- 'Tasty'.

★ Additional Information

- "Explicit" (Option 1) refers to something clearly stated or shown (स्पष्ट), not a suitable antonym for "Insidious".
- "Opaque" (Option 2) represents something not transparent (अपारदर्शी), not an antonym of "Insidious".
- "Immense" (Option 4) refers to extremely large or great (अत्यधिक), which is unrelated to the concept of "Insidious".

---

73. **Answer: d**

## Explanation:

The correct answer is 'Option 4' i.e. 'Phinomenon'.

### ★ Key Points

- Among the given words, 'Phinomenon' is spelled incorrectly.
- The correct spelling is 'Phenomenon' (घटना).

Therefore, the **correct answer** is- 'Option 4.'

### ★ Additional Information

- 'Slaughter' (नरसंहार),
- 'Dampness' (नमी)
- 'Anthropology' (मानवशास्त्र) are all correctly spelled.

---

74. Answer: d

## Explanation:

The correct answer is 'Option 4' i.e. 'Flowers'.

### ★ Key Points

- In the sentence provided, the word 'flovvers' is spelled incorrectly.
- The correctly spelled word is 'flowers' ( फूल).

Therefore, the **correct answer** is- 'Flowers'.

### ★ Additional Information

- The words 'pesticides' (कीटनाशक), 'bloom' (खिलना), and 'refused' (मना करना) are all correctly spelled in the given sentence.

75. Answer: b

Explanation:

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

★ Key Points

- 'Benevolent', in the context of the sentence, means well-meaning and kind (परोपकारी या दयाशील).
- 'Gracious', meaning courteous, kind, and pleasant (Option 2), serves as a suitable synonym (कृपाशील या सौम्य).

Therefore, the correct answer is- 'Gracious'.

★ Additional Information

- 'Foolish' (Option 1), meaning lack of sense or judgement (मूर्खतापूर्ण), is not a suitable synonym for 'benevolent'.
- 'Insane' (Option 3), meaning in a state of mind which prevents normal perception, behaviour, or social interaction (पागल), does not fit as a synonym for 'benevolent'.
- 'Charming' (Option 4), meaning pleasant or attractive (मनोहारी), while positive, isn't the best fit as a synonym for 'benevolent'.

76. Answer: c

Explanation:

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

★ Key Points

- The blank needs a verb that properly connects "people today" to "the most common health conditions." This verb should convey the idea that people are

confronting or dealing with these health conditions.

- **'Facing'** (Option 3), which means dealing with something that is going to happen, is most suitable for the context.
- Therefore, when one says "people today are facing health conditions such as heart disease, stroke, diabetes, and cancer," it implies that people are dealing with these health conditions in their current situation.

Therefore, the **correct sentence** is: *'The most common health conditions **facing** people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they (2) \_\_\_\_\_ the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.'*

★ **Additional Information**

- **'Looking'** (Option 1) could mean people are physically seeking these conditions, which doesn't make sense in this context.
- **'Towards'** (Option 2) implies a direction or orientation, which isn't suitable in this context.
- **'Against'** (Option 4) would suggest opposition or resistance, which doesn't fit grammatically or logically in the sentence.

---

**77. Answer: d**

**Explanation:**

The correct answer is **'Option 4'** i.e. **'Fall into'**.

★ **Key Points**

- The **blank requires a verb phrase** that conveys the idea that people with these health conditions are classified or categorized on the illness side of the spectrum.

- 'Fall into' (Option 4), which means to be included in a particular group or category, fits this context best.
- Therefore, when one says "people experiencing these conditions fall into the illness side of the spectrum," it implies that these people are categorized under the illness side due to their health conditions.

Therefore, the **correct sentence** is: *'The most common health conditions **facing** people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they **fall into** the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep (3) \_\_\_\_\_, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.'*

★ Additional Information

- 'Count to' (Option 1) suggests tallying or adding up to a certain total, not categorizing or classifying, making it unsuitable here.
- 'Dive in' (Option 2) conveys the idea of physically or metaphorically jumping into something, which doesn't fit coherently in this context.
- 'Pass off' (Option 3) means to present something in a particular way, especially when it's not truly that way, which doesn't work in this context.

78. Answer: c

Explanation:

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

★ Key Points

- The term '**deprivation**' in the context of 'sleep deprivation' refers to not getting enough sleep or experiencing a lack of sleep.
- It **fits correctly in the context** of the passage which discusses common health conditions and their risk factors.

- **The context of 'sleep deprivation'** correctly aligns with the other lifestyle factors mentioned in the passage - all are potential health risk factors.
- Sleep deprivation as a term is widely used in medical and health-science fields to describe a condition of insufficient sleep which can independently contribute to health problems, such as heart disease, high blood pressure, diabetes, etc.
- **The usage of 'deprivation'** here assists in maintaining a consistent tone, which is health-oriented, as all the other factors mentioned in the blank spaces insightfully describe potential health risks or problems.

Therefore, the **correct sentence** is: *'The most common health conditions **facing** people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they **fall into** the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep **deprivation**, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An (4) \_\_\_\_\_ weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.'*

★ **Additional Information**

- Option 1 '**Desire**': 'Desire' means having a strong feeling of wanting to have something or wishing for something to happen. It does not fit the context of the sentence because it doesn't express a lack of something, which is needed here.
- Option 2 '**Impoverishment**': Impoverishment generally refers to the state of being extremely poor. It doesn't align with the health context in which the blank is situated.
- Option 4 '**Poverty**': Poverty, while a significant factor in overall health and well-being, is used to discuss financial or social status, not health issues directly, making it unfit in the context of the sentence.

79. Answer: d

Explanation:



The correct answer is 'Option 4' i.e. 'Unhealthy'.

★ Key Points

- The phrase where the word is being inserted in this context indicates a condition related to body weight. Here "**unhealthy**" is the most suitable option, as it is commonly used to describe a weight that is considered risky to one's health.
- The term '**unhealthy weight**' effectively communicates that the weight associated is detrimental to individual health, increasing the risk of the mentioned diseases such as heart disease, stroke, diabetes, and cancer.
- **When talking about** weight in a medical or health context, 'unhealthy' is frequently used to describe a weight that could potentially lead to or exacerbate health issues. It fits well with the surrounding context in the passage.
- '**Unhealthy**' is a broad term that encompasses both underweight and overweight conditions, which are both associated with health risks. This makes it the most precise fit for the blank in the passage.

Therefore, the **correct sentence** is: *'The most common health conditions **facing** people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they **fall into** the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep **deprivation**, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An **unhealthy** weight is another factor that can put one at risk for these conditions, especially carrying extra weight (5) \_\_\_\_\_ your midsection.'*

★ Additional Information

- Option 1 '**Empirical**' refers to information gained by experience, observation, or experiment, not related to the health state of weight. Thus, it doesn't fit the given context.
- Option 2 '**Unhygienic**' describes something that is not clean or sanitary. While unhygienic conditions can lead to health issues, the term isn't specifically associated with weight status.



- Option 3 '**Contaminated**' generally means impure or harmful due to the presence of extraneous substances. This term doesn't fit in context with the bodyweight concept.

80. Answer: b

**Explanation:**

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

★ Key Points

- The term '**around**' is commonly used to refer to the location of something, especially when talking about areas of the body. In this case, it is fitting to use 'around' to refer to the location of the extra weight on the body.
- '**Around**' is a preposition often used to highlight a specific area, here, the 'midsection'. Hence, 'around your midsection' gives a better understanding of the distribution of the 'extra weight'.
- Using '**around**' makes the context accurate since it illustrates the accumulation of excess body fat in the abdominal region, which could increase chances of developing health issues.
- The context implies a physical location—that is, around what part of the body is the weight carried. Out of the other options available, 'around' is the only one that implies a physical location.

Therefore, the **correct sentence** is: *'The most common health conditions **facing** people today include heart disease, stroke, diabetes, and cancer. When people are experiencing these conditions, they **fall into** the illness side of the spectrum. Lifestyle factors that put you at risk for developing these conditions include smoking, alcohol substance use disorder, lack of exercise, sleep **deprivation**, and a diet rich in processed foods, sugar, saturated fat, and artificial flavours. An **unhealthy** weight is another factor that can put one at risk for these conditions, especially carrying extra weight **around** your midsection.'*

★ Additional Information

- Option 1 '**Concerning**': This is generally used to indicate that something relates to or involves a particular person or thing. It doesn't imply location, thus not suitable for this context.
- Option 3 '**Directing**': This refers to the action of guiding or managing, or pointing something in a particular direction. It does not imply a physical location on the body, and thus isn't suitable for this context.
- Option 4 '**Against**': This generally signifies opposition or resistance, or in a direction contrary to another object's movement. It's not usually used to indicate a location on the body.

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