

# 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

# RRB Group D 2022 Prev. Yr. Paper (18 Aug 2022) (Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

## Instructions

| Sl No. | Section Name | No. of Question | Maximum Marks |
|--------|--------------|-----------------|---------------|
| 1      | CBT          | 100             | 100           |

- 1.) A total of 90 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.

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## CBT

1. A car can cover 275 km in 5 hours. If its speed is reduced by 5 km/h, then how much time will the car take to cover a distance of 250 km? **(+1, -0.33)**
- a. 5 hr
  - b. 5 hr 30 min
  - c. 4 hr 30 min
  - d. 6 hr

2. The Scheme of Assistance to National Sports Federations (NSFs) has been extended to train and field national teams for national and international competitions between: **(+1, -0.33)**
- a. 2022 and 2025
  - b. 2021 and 2025
  - c. 2022 and 2024
  - d. 2022 and 2026

3. In this question, a group of numbers/symbols is coded using letters as per the table given below and the conditions which follow. The correct combination of codes following the conditions is your answer. **(+1, -0.33)**

|               |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|
| Number/Symbol | 4 | % | 7 | 3 | # | * | 9 | @ | 6 |
| Code          | X | N | B | J | H | L | Y | F | R |

Conditions:

1. If the first element is an even number and the last a number, the codes for these two (the first and the last elements) are to be interchanged.
2. If the first element is an odd number and the last an even number, the first and last elements are to be retained as it is (i.e., first and last elements won't get coded).

**Question:** 7 \* % 3 @ 6

- a. 7LNJF6
- b. BLN3FR
- c. BLNJFR
- d. 7YNJF6

4. Match the following:

(+1, -0.33)

| Substance                     | pH     |
|-------------------------------|--------|
| i. Lemon juice                | a. 14  |
| ii. Gastric juice             | b. 1.2 |
| iii. Milk of magnesia         | c. 2.2 |
| iv. Sodium hydroxide solution | d. 10  |

- a. i - c, ii - b, iii - d, iv - a
- b. i - d, ii - b, iii - c, iv - a
- c. i - c, ii - b, iii - a, iv - d
- d. i - a, ii - b, iii - c, iv - d

5. Which of the following rules is used to determine the force on a current carrying conductor kept inside a magnetic field? (+1, -0.33)
- a. Maxwell's corkscrew rule
  - b. Fleming's left-hand rule
  - c. Right hand thumb rule
  - d. Fleming's right-hand rule
- 

6. As of July 2022, PM-VIKAS is aligned to the 15th Finance Commission cycle period up to \_\_\_\_\_ and is a Central Sector (CS) scheme under the Ministry of Minority Affairs. (+1, -0.33)
- a. 2024-27
  - b. 2025-26
  - c. 2022-23
  - d. 2021-23
- 

7. Select the option that represents the letters that, when placed from left to right in the same sequence in the blanks below, will complete the letter series. (+1, -0.33)
- B \_ X T \_ \_ H Y \_ M B \_ Z \_ M
- a. BMHHTT
  - b. MHBHTT
  - c. HMBTHT
-

d. TMHBHT

---

8. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (+1, -0.33)

**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 are not allowed.

(80, 16, 20)

(144, 36, 24)

- a. (512, 25, 16)
- b. (122, 12, 6)
- c. (224, 36, 40)
- d. (189, 49, 27)

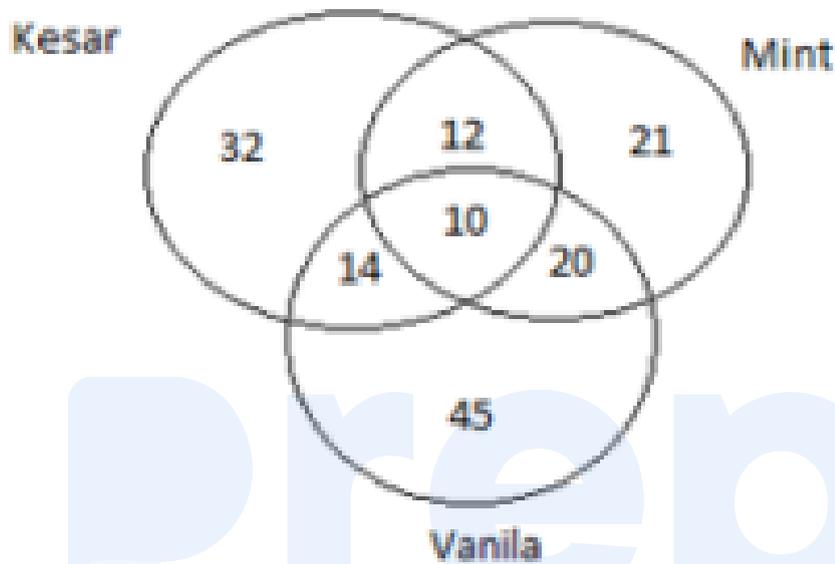
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9. Find the roots of the equation  $6p^2 - 5p - 6 = 0$ . (+1, -0.33)

- a.  $3/4$  and  $3/2$
  - b.  $-2/3$  and  $3/2$
  - c.  $-1/3$  and  $4/3$
  - d.  $2/3$  and  $2/3$
-

10. Study the given diagram carefully and answer the following question. The numbers in different sections indicate the number of people who like different flavors of ice-cream. (+1, -0.33)



How many people like Mint but NOT Kesar flavored ice-cream?

- a. 51
  - b. 21
  - c. 33
  - d. 41
- 
11. When was Bandhan Bank formed? (+1, -0.33)
- a. 2015
  - b. 2017

c. 2011

d. 2013

---

12. Seven boxes, A, B, C, D, E, F, and G, are kept one over the other but not necessarily in the same order. Only two boxes are kept between G and B. B is kept at the bottom. C is kept on one of the positions above D. F is kept immediately above D. A is kept fifth from the bottom. E is kept at the top. How many boxes are kept between D and A? (+1, -0.33)

a. One

b. Three

c. Four

d. Two

---

13. Article 243E of the Indian Constitution is related to which feature of Panchayat? (+1, -0.33)

a. Constitution of Panchayats

b. Reservation of seat

c. Composition of Panchayats

d. Duration of Panchayat

---

14. A group of people contains men, women, and children. If 40% of them are men, 35% are women and the rest are children, and their average weights are 70 kg, 60 kg, and 30 kg, respectively. The average weight of the group is: (+1, -0.33)

- a. 45.5 kg
  - b. 56.5 gm
  - c. 45.5 gm
  - d. 56.5 kg
- 

15. 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 from the statements. (+1, -0.33)

Statements:

- 1. All jokers are circuses.
- 2. All circuses are equestrians.
- 3. Some jokers are spectacles.

Conclusions:

- I. Some equestrians are spectacles.
- II. Some circuses are jokers.

- a. Only conclusion I follows
  - b. Neither conclusion I nor II follows
  - c. Only conclusion II follows
  - d. Both conclusions I and II follow
- 

16. Study the given number series and answer the question that follows. (+1, -0.33)

2 6 7 4 9 3 6 5 1 9 5 2 4 5 9 4 2 3 7 1

How many even numbers are immediately preceded by an odd number and immediately followed by a prime number?

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

17. Which of the following chemical reactions represents the chlor-alkali process? (+1, -0.33)

- a.  $\text{NaHCO}_3 + \text{H}^+ \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{Sodium salt of acid}$
- b.  $\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2 + \text{NH}_3 \rightarrow \text{NH}_4\text{Cl} + \text{NaHCO}_3$
- c.  $2 \text{NaCl} (\text{aq}) + 2 \text{H}_2\text{O} (\text{l}) \rightarrow 2 \text{NaOH} (\text{aq}) + \text{Cl}_2 (\text{g}) + \text{H}_2 (\text{g})$
- d.  $\text{Ca}(\text{OH})_2 + \text{Cl}_2 \rightarrow \text{CaOCl}_2 + \text{H}_2\text{O}$

18. If '+' means '÷', '-' means '×', '×' means '+', and '÷' means '-', what will come in place of the question mark (?) in the following equation? (+1, -0.33)

$$9 \times 8 + 4 - 8 \div 5 = ?$$

- a. 23
- b. 18
- c. 20

d. 35

---

19. The focal length of a diverging lens is 50 cm. The power of the lens is: **(+1, -0.33)**

a. -5 D

b. -2 D

c. 5 D

d. 2 D

---

20. In which of the following years was a joint venture signed between the Government of India and Suzuki Motor Corporation, to launch the Maruti 800 car for the first time in India? **(+1, -0.33)**

a. 1986

b. 1978

c. 1998

d. 1982

---

21. A magnesium ribbon burns with a dazzling flame in air (oxygen) and changes into a white substance 'X'. The X is: **(+1, -0.33)**

a.  $\text{MgCO}_3$

b. Mg

c.  $\text{Mg(OH)}_2$

d. MgO

22. The current through a horizontal straight wire flows from west to east. The direction of the magnetic field lines as viewed from the east end will be: (+1, -0.33)
- a. anticlockwise in a plane perpendicular to the wire
  - b. clockwise in a plane perpendicular to the wire
  - c. anticlockwise in the plane of the wire
  - d. clockwise in the plane of the wire
- 

23. Which of the following has the largest atomic radius? (+1, -0.33)
- a. Chlorine
  - b. Fluorine
  - c. Iodine
  - d. Oxygen
- 

24. Which state has become India's first state to launch AVGC (Animation, Visual Effects, Gaming, and Comics) Centre of Excellence? (+1, -0.33)
- a. Karnataka
  - b. Kerala
  - c. Jharkhand
  - d. Haryana
- 

25. Planets do not twinkle because: (+1, -0.33)
-

- a. they scatter less light
  - b. they act as extended sources of light
  - c. they act as point sources of light
  - d. they scatter more light
- 

26. Which Article of the Constitution of India deals with duties of Prime Minister as respects the furnishing of information to the President, etc.? (+1, -0.33)

- a. Article 78
  - b. Article 73
  - c. Article 69
  - d. Article 62
- 

27. Which of the following pairs is NOT coprime? (+1, -0.33)

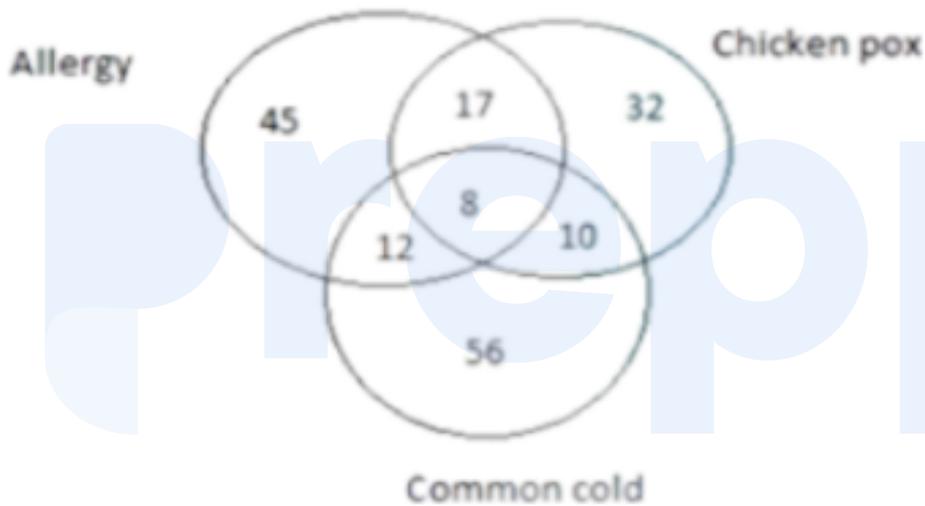
- a. (17, 34)
  - b. (11, 13)
  - c. (15, 17)
  - d. (17, 23)
- 

28. In a certain code language, 'SIGMA' is written as 'FVTZN' and 'FNRYQ' is written as 'SALED'. How will 'ARJUN' be written in that language? (+1, -0.33)

- a. WENAH

- b. BPWAH
- c. EWNAH
- d. NEWHA

29. Study the given diagram carefully and answer the following question. The numbers in different sections indicate the number of persons who have suffered from different diseases. (+1, -0.33)



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How many people have suffered from both Allergy and Chickenpox but NOT Common Cold?

- a. 32
- b. 45
- c. 25
- d. 17

30. How will the plant be affected if the rate of respiration becomes more than the rate of photosynthesis? (+1, -0.33)
- a. Plant growth will slow down.
  - b. Plants will store a lot amount of food.
  - c. More food will be oxidized than that produced, and the plant will starve and die.
  - d. Plant growth will increase due to more energy produced.
- 

31. Ramakrishna Mission was founded in 1897 by \_\_\_\_\_ (+1, -0.33)
- a. Ramkrishna Paramhansa
  - b. Dayanand Saraswati
  - c. Swami Vivekanand
  - d. Raja Ram Mohan Roy
- 

32. Which of the following is the storage carbohydrate in plants? (+1, -0.33)
- a. Glucose
  - b. Glycogen
  - c. Starch
  - d. Sucrose
- 

33. The Constitution of India has \_\_\_\_\_ parts and \_\_\_\_\_ schedules. (+1, -0.33)

- a. 12; 25
  - b. 22; 10
  - c. 25; 12
  - d. 10; 22
- 

34. A statement is given followed by two assumptions numbered I and II. You have to assume everything in the statement to be true and decide which of the given assumptions is/are implicit in the statement. (+1, -0.33)

Statement:

Due to the failure of the main grid, power supply to many parts of the city was affected.

Assumptions:

I. The main grid is responsible for transmission of power to different parts of the city.

II. Most people have backup power installations at their homes to manage during times when power supply is disrupted.

- a. Both assumptions I and II are implicit
  - b. Only assumption II is implicit
  - c. Neither assumption I nor II is implicit
  - d. Only assumption I is implicit
- 
35. Which of the following is NOT a unit of heat energy? (+1, -0.33)
- a. Calorie

- b. Watt second
  - c. Kilowatt
  - d. Joule
- 

36. Which two banks have merged with Punjab National Bank in 2020? (+1, -0.33)

- a. Syndicate Bank and Allahabad Bank
  - b. Dena Bank and Vijaya Bank
  - c. Oriental Bank of Commerce and United Bank of India
  - d. Andhra Bank and Corporation Bank
- 

37. Find the value of  $325 \times 5 + 31 \times 21 - 22 \times (63 - 52)$ . (+1, -0.33)

- a. 2044
  - b. 2034
  - c. 2024
  - d. 2014
- 

38. The bends formed in the river when river water erodes its banks on the outside of the channel are known as: (+1, -0.33)

- a. Distributaries
- b. Braided channels
- c. Meanders

d. Tributaries

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Simplify  $\frac{8^2 \times 3^3}{\sqrt{64} \times \sqrt{81}}$ .

39. a. 24 (+1, -0.33)  
b. 27  
c. 72  
d. 64
- 

40. The sum of the present ages of a father and his daughter is 80 years. (+1, -0.33)  
Eight years ago, the father's age was seven times the age of his daughter. Eight years from now, what will be the daughter's age?  
a. 20 years  
b. 18 years  
c. 22 years  
d. 24 years
- 

41. Based on the given statement, four conclusions are drawn. Find out which (+1, -0.33)  
conclusion is true based on the statement.
-

Statement:  $Y < O \leq G \leq K = U > L > P$

- a.  $O = P$
- b.  $G = Y$
- c.  $K > P$
- d.  $Y > L$

---

42. Where was the first Biosafety Level-3 (BSL-3) Containment Mobile Laboratory inaugurated in February 2022 to strengthen the healthcare infrastructure of South Asia? (+1, -0.33)

- a. Pune
- b. Nagpur
- c. Nashik
- d. Mumbai

---

43. The HCF of 108 and 144 is \_\_\_\_\_ (+1, -0.33)

- a. 12
- b. 24
- c. 16
- d. 36

---

44. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number (+1, -0.33)

is related to the third number.

$$64 : 81 :: 121 : 144 : 169 : ?$$

- a. 196
- b. 216
- c. 225
- d. 200

---

45. The parallel sides of a trapezium and its height are in an arithmetic progression with a common difference of 4. If the height is the highest term and the area of the trapezium is 160 sq. units, find the ratio of length of greatest parallel side to that of the smallest parallel side. (+1, -0.33)

- a. 5 : 1
- b. 1 : 5
- c. 2 : 3
- d. 3 : 2

---

46. This question is based on the following 3-digit numbers: (+1, -0.33)

543 769 552 342 245

(Example - 697 - First digit = 6, second digit = 9 and third digit = 7)

If in each of the numbers, 1 is added to the first digit of every number, in how many numbers will the first digit be exactly divisible by the third digit of the same number?

- a. Three

- b. Five
- c. Two
- d. Four

---

47. A sum, when invested at 12.5% simple interest per annum, amounts to Rs. 8,250 after 2 years. What is the simple interest? **(+1, -0.33)**

- a. Rs. 1,820
- b. Rs. 1,650
- c. Rs. 1,910
- d. Rs. 1,700

---

48. What is the nature of the roots of the quadratic equation  $x^2 - 5x + 7 = 0$ ? **(+1, -0.33)**

- a. Not real
- b. Real, rational, equal
- c. Real, irrational, unequal
- d. Real, rational, unequal

---

49. Some features of genes are mentioned below. Which option states the INCORRECT feature of genes? **(+1, -0.33)**

- a. They do not undergo any change.
- b. They are segments of DNA.

- c. Each germ cell has one gene set.
  - d. They control traits by producing proteins.
- 

50. Which of the following famous churches of India is INCORRECTLY matched with its location? (+1, -0.33)

- a. St. Paul Cathedral - Kolkata
  - b. St. John in the Wilderness Church - Pondicherry
  - c. Santa Cruz Basilica - Kochi
  - d. Basilica of Bom Jesus - Goa
- 

51. Select the INCORRECT option with reference to the Chipko Andolan. (+1, -0.33)

- a. It involved the community in forest conservation efforts
  - b. It forced the government to rethink their priorities in the use of forest produce
  - c. It was a violent movement to save the trees
  - d. People realised that forests are needed to maintain the quality of soil
- 

52. The property/properties that must be possessed by a material to be chosen for making heating elements of heating devices is/are: (+1, -0.33)

- (i) high melting point
- (ii) high resistivity

(iii) low resistance

- a. Only (i) and (ii)
- b. Only (i) and (iii)
- c. (i), (ii), (iii)
- d. Only (ii) and (iii)

---

53. The difference between the selling price on a discount of 32% and two successive discounts of 20% each on a certain bill is Rs. 25. Find the actual amount of the bill. (+1, -0.33)

- a. Rs. 576
- b. Rs. 625
- c. Rs. 200
- d. Rs. 425

---

54. Find the number of sides in a regular polygon if each interior angle is  $160^\circ$ . (+1, -0.33)

- a. 17
- b. 14
- c. 18
- d. 15

---

55. The magnification produced by a spherical mirror is  $-0.5$ . The image formed by the mirror is: (+1, -0.33)

- a. real, inverted, and diminished
- b. real, inverted, and enlarged
- c. virtual, erect, and diminished
- d. virtual, erect, and enlarged

---

56. Raju and Raman can complete a piece of work in 12 days and 16 days, respectively. If they work on alternate days, starting with Raju, in how many days will the work be completed? (+1, -0.33)

- a.  $13 \frac{2}{3}$  days
- b.  $13 \frac{1}{3}$  days
- c.  $14 \frac{2}{3}$  days
- d.  $14 \frac{1}{3}$  days

---

57. If '+' means '-', '-' means '÷', '÷' means 'x', and 'x' means '+', what will come in place of the question mark (?) in the following equation? (+1, -0.33)

$$18 - 3 \times 14 \div 2 + 12 = ?$$

- a. 24
- b. 22
- c. 19
- d. 21

58. Which languages are to be used for all or any of the official purposes of the State of Tripura as per the Tripura Official Languages Act, 1964? (+1, -0.33)
- a. Konkani and English
  - b. Bengali and Kokborok
  - c. Telugu and Lepcha
  - d. Hindi and Bengali
- 

59. India is the third largest country in South Asia, with \_\_\_\_\_ of Earth's land area. (+1, -0.33)
- a. 4.3%
  - b. 2.3%
  - c. 6.5%
  - d. 5.7%
- 

60. The sum of two numbers is 32, and one of them exceeds the other by 18. Find the greater number. (+1, -0.33)
- a. 24
  - b. 28
  - c. 27
  - d. 25
-

61. Which of the following numbers will replace the question mark (?) in the given series? (+1, -0.33)

17, 30, 44, 59, 75, ?

- a. 111
- b. 102
- c. 92
- d. 85

62. Which of the following numbers will replace the question mark (?) and complete the given number series? (+1, -0.33)

4, 5, 12, 39, 160, ?

- a. 850
- b. 800
- c. 805
- d. 804

63. In which of the following years was the first Republic Day of India celebrated? (+1, -0.33)

- a. 1948
- b. 1949
- c. 1947

d. 1950

---

64. Who has developed the Tamanna tool related to education in India? (+1, -0.33)

- a. All India Council for Technical Education
  - b. University Grants Commission
  - c. Central Board of Secondary Education (CBSE) and National Council of Educational Research and Training (NCERT)
  - d. Indian Certificate of Secondary Education
- 

65. All 72 students of a class are standing in a row facing the north. Shalabh is standing at the extreme left end of the row. Only 8 students are standing between Shalabh and Kimaya. Vitali is 26th from the extreme right end of the row. How many students are standing between Vitali and Kimaya? (+1, -0.33)

- a. 37
  - b. 36
  - c. 35
  - d. 38
- 

66. From point X, a person walks 45 m towards the east. He then takes a left turn and walks 40 m. He then takes a right turn and walks 90 m. He then takes a right turn and walks 60 m. Finally, he takes a right turn and walks 135 m to reach point Y. How far and in which direction is point X from point Y? (All turns are 90 degree turns only) (+1, -0.33)

- a. 20 m, North
  - b. 15 m, North
  - c. 20 m, South
  - d. 15 m, South
- 

67. The \_\_\_\_\_ DOES NOT function as an excretory organ in humans. (+1, -0.33)

- a. small intestine
  - b. skin
  - c. large intestine
  - d. lungs
- 

68. If  $d^2 + 1/d^2 = 18$ , and  $d > 1/d$ , then the value of  $d^3 - 1/d^3$  is: (+1, -0.33)

- a. 64
  - b. 91
  - c. 76
  - d. 81
- 

69. Carbon is able to form stable compounds because of: (+1, -0.33)

- a. Its ability to form covalent bonds
- b. Its allotropic forms

- c. Its smaller atomic size
- d. The presence of p-orbital

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Simplify  $\left(\frac{1}{3}\right)^{-3} + \left(\frac{1}{5}\right)^{-4} + \left(\frac{1}{15}\right)^{-2}$

70. a. 856 (+1, -0.33)
- b. 756
- c. 877
- d. 777

- 
71. Mohit's salary is Rs. 15,000 per month. He spends Rs. 5,000 on house rent, Rs. 2,000 on bills and the rest of the amount is his monthly savings. Find his savings in a year, if in the month of his birthday he spent his complete monthly saving for birthday celebration. (+1, -0.33)
- a. Rs. 8,000
- b. Rs. 96,000
- c. Rs. 88,000
- d. Rs. 17,000

- 
72. The 36th National Games of India took place in \_\_\_\_\_ cities of Gujarat between 27 September and 10 October 2022. (+1, -0.33)
- a. six

- b. five
- c. eight
- d. four

73. Find the median class of:

(+1, -0.33)

| CI | 0-50 | 50-100 | 100-150 | 150-200 |
|----|------|--------|---------|---------|
| F  | 12   | 15     | 13      | 10      |

- a. 100-150
- b. 150-200
- c. 0-50
- d. 50-100

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74. Some effects of large production of biodegradable waste are mentioned below. Choose the INCORRECT statement. (+1, -0.33)

- a. Amount of waste sent to landfills increases
- b. Gives out foul smell
- c. Acts as breeding ground for mosquitoes and spreads diseases
- d. Replenishment of soil nutrients

75. Each vowel in the word "EXPLAIN" is changed to the letter following it in the English alphabetical order, and each consonant is changed to the letter preceding it. If each letter, thus formed, is arranged in alphabetical order, which letter will be third from the right end? **(+1, -0.33)**

- a. Q
- b. O
- c. M
- d. Y

76. A shadow of a tower standing on level ground is found to be  $40\sqrt{3}$  meters longer when the Sun's altitude is  $30^\circ$  than when it is  $60^\circ$ . The height of the tower is: **(+1, -0.33)**

- a. 50 m
- b. 60 m
- c. 70 m
- d. 40 m

77. Simplify:  $6(x^3 - 2x^2 + 3x) - (x^3 + 2x - 3)$ . **(+1, -0.33)**

- a.  $5x^3 - 12x^2 + 16x + 3$
- b.  $5x^3 - 12x^2 + 16x - 3$
- c.  $5x^3 + 12x^2 + 16x - 3$
- d.  $5x^3 + 12x^2 + 16x + 3$

---

78. Umesh is standing facing the south-west direction. He then takes a  $90^\circ$  clockwise turn. After that, he takes a  $135^\circ$  clockwise turn. He finally takes a  $90^\circ$  anticlockwise turn. In which direction is he facing now? (+1, -0.33)

- a. West
- b. North-west
- c. North
- d. North-east

---

79. Compounds  $C_2H_6$  and  $C_3H_8$  differ by \_\_\_\_\_ unit and belong to \_\_\_\_\_ series. (+1, -0.33)

- a.  $CH_2$ , heterogeneous
- b.  $CH_3$ , homologous
- c.  $CH_3$ , heterogeneous
- d.  $CH_2$ , homologous

---

80. \_\_\_\_\_ aids in the emulsification of fat. (+1, -0.33)

- a. Bile salts
- b. Pepsin
- c. HCl
- d. Vit-K Trypsin

81. In a queue of travelers at the emigration counter facing north, Pankaj is 9th from the extreme left end and Puja is 17th from the extreme right end. If the positions of Pankaj and Puja are interchanged, then the new position of Pankaj will be 15th from the extreme left end. Find the number of travelers between Puja and Pankaj. (+1, -0.33)
- a. 4
  - b. 3
  - c. 5
  - d. 6

- 
82. How many spherical solid marbles, each having a radius of 0.3 cm, can be made from a solid sphere having a radius of 6 cm? (+1, -0.33)
- a. 7500
  - b. 8000
  - c. 8500
  - d. 9000

- 
83. A shopkeeper sells an item at a profit of 25% and dishonestly uses a weight that is 30% less than the actual weight. Find his total profit %. (+1, -0.33)
- a. 78.57%
  - b. 65.75%
  - c. 42%

d. 23%

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84. The Dam Rehabilitation and Improvement Project was started in which year? (+1, -0.33)

- a. 2009
  - b. 2012
  - c. 2021
  - d. 2002
- 

85. If '+' means 'x', 'x' means '÷', '÷' means '-', and '-' means '+', what will come in place of the question mark (?) in the following equation? (+1, -0.33)

$$13 - 17 + 24 \div 54 \times 18 + 28 \times 14 = ?$$

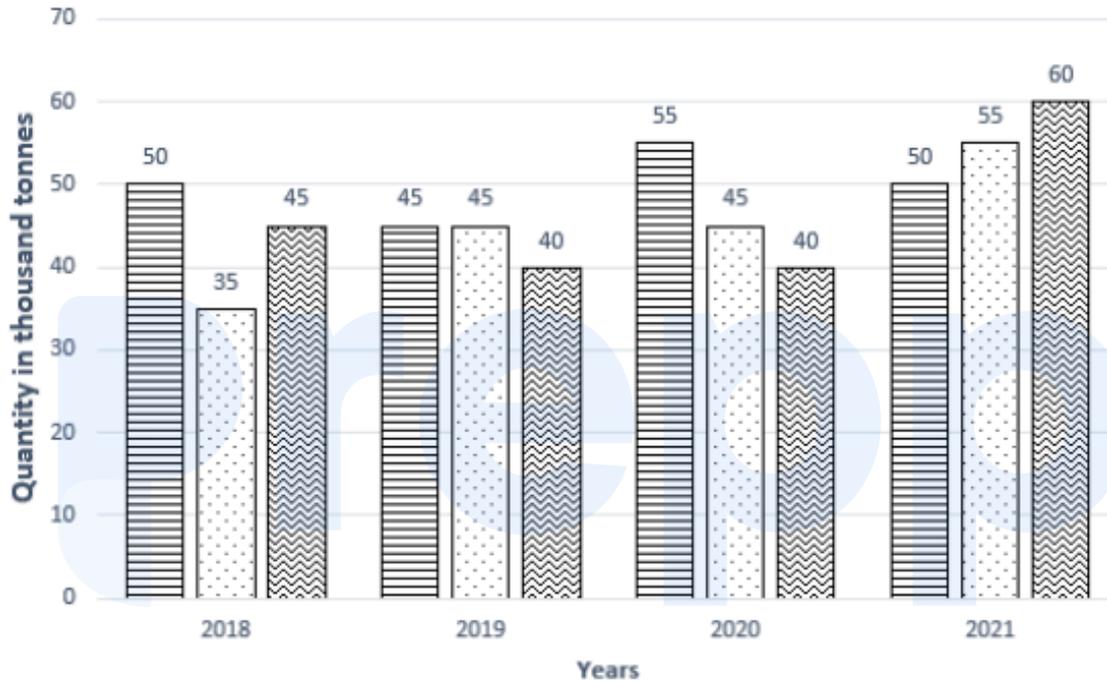
- a. 380
  - b. 510
  - c. 415
  - d. 225
- 

86. The total surface area of a cylinder of diameter 10 cm is 330 square centimeters. Find the height of the cylinder? (+1, -0.33)

- a. 10.5 cm
  - b. 6.5 cm
  - c. 5.5 cm
-

d. 2.5 cm

87. The bar graph given below shows the data on the production of milk products (in thousand tonnes) by three branches, X, Y, and Z, of a dairy product company over the years. Study the graph and answer the question. (+1, -0.33)



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For which branch(es) of the dairy product company was the average production for the given 4 years the minimum?

- a. Branch Z
- b. Branch Y
- c. Branch X
- d. Branches Y and Z

88. Which of the following is an independent financial institution established in 1990 under an Act of the Indian Parliament, with the objective of assisting in the growth and development of the Micro, Small, and Medium Enterprises (MSMEs) sector? (+1, -0.33)
- a. SIDBI
  - b. NBFC
  - c. MSS
  - d. FSDC
- 

89. If  $40 : 35 :: 35 : x$ , find the value of  $x$ . (+1, -0.33)
- a.  $49/8$
  - b.  $49/14$
  - c.  $245/8$
  - d.  $49/16$
- 

90. If 1 January 2011 was a Saturday, then what day of the week was 31 December 2011? (+1, -0.33)
- a. Saturday
  - b. Sunday
  - c. Monday
  - d. Friday
-

91. Five friends A, B, C, D, and E are sitting in a straight row, facing north. A is not at the exact center position of the row. C is second from one extreme end, while fourth from the other extreme end. B and D sit at the extreme ends of the row. Who sits at the exact center position of the row? (+1, -0.33)
- a. D
  - b. E
  - c. A
  - d. C
- 

92. Which of the following line(s) act as a normal to a spherical mirror? (+1, -0.33)
- (i) Line joining the pole and center of curvature
  - (ii) Line joining the center of curvature and point of incidence
  - (iii) Line joining focus and point of incidence
- a. Both (i) and (iii)
  - b. (i), (ii), and (iii)
  - c. Both (i) and (ii)
  - d. Both (ii) and (iii)
- 

93. What happens when sodium metal reacts with water? (+1, -0.33)
- a. Chlorine gas and sodium hydroxide solution are produced.
  - b. No reaction takes place.

- c. Only sodium hydroxide solution is produced.
  - d. Hydrogen gas and sodium hydroxide solution are produced.
- 

94. Some plants can also produce new plants from their roots. An example of such a plant is \_\_\_\_\_ ( +1, -0.33)

- a. Sweet Potato
  - b. Cactus
  - c. Ginger
  - d. Bryophyllum
- 

95. 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. ( +1, -0.33)

PORTUGAL : TROPLAGU :: URANUS : ARUSUN :: AMRITSAR : ?

- a. TSRRMIAA
  - b. AATRRSMI
  - c. TRRSMIAA
  - d. TSMIRRAA
- 

96. A statement is given, followed by four conclusions given in the options. Find out which conclusion is true based on the given statement. ( +1, -0.33)

Statement:

$$J \leq H \leq G = R > Z = E > D$$

- a.  $D > R$
- b.  $J \leq G$
- c.  $Z < D$
- d.  $H > R$

---

97. Six friends, K, L, M, N, O, and P, are sitting around a circular table facing the center of the table. O is second to the left of N. P is second to the right of K. M is to the immediate right of L. N and L are immediate neighbors. Who is sitting to the immediate right of P? (+1, -0.33)

- a. N
- b. K
- c. O
- d. L

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98. Consider the below statements and identify the correct answer. (+1, -0.33)

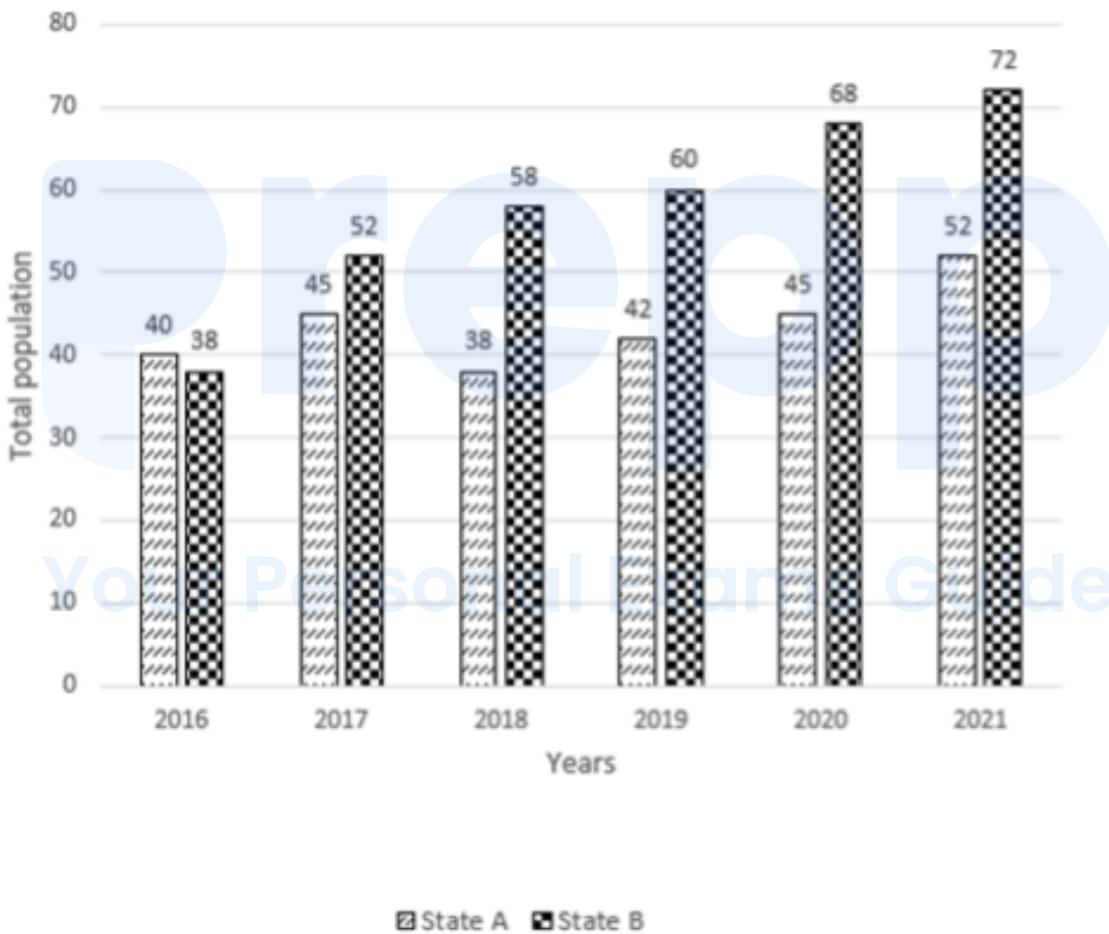
Statement I: Metallic character decreases across a period as we move from left to right.

Statement II: The effective nuclear charge acting on the valence shell electrons increases across a period, so the tendency to lose electrons will decrease.

- a. Both statements are correct. Statement I is the correct explanation of Statement II.

- b. Both statements are correct. Statement II is the correct explanation of Statement I.
- c. Only Statement II is correct.
- d. Only Statement I is correct.

99. The bar graph given below shows the population of two states, A and B (in lakhs) over the years. Study the graph and answer the question. (+1, -0.33)



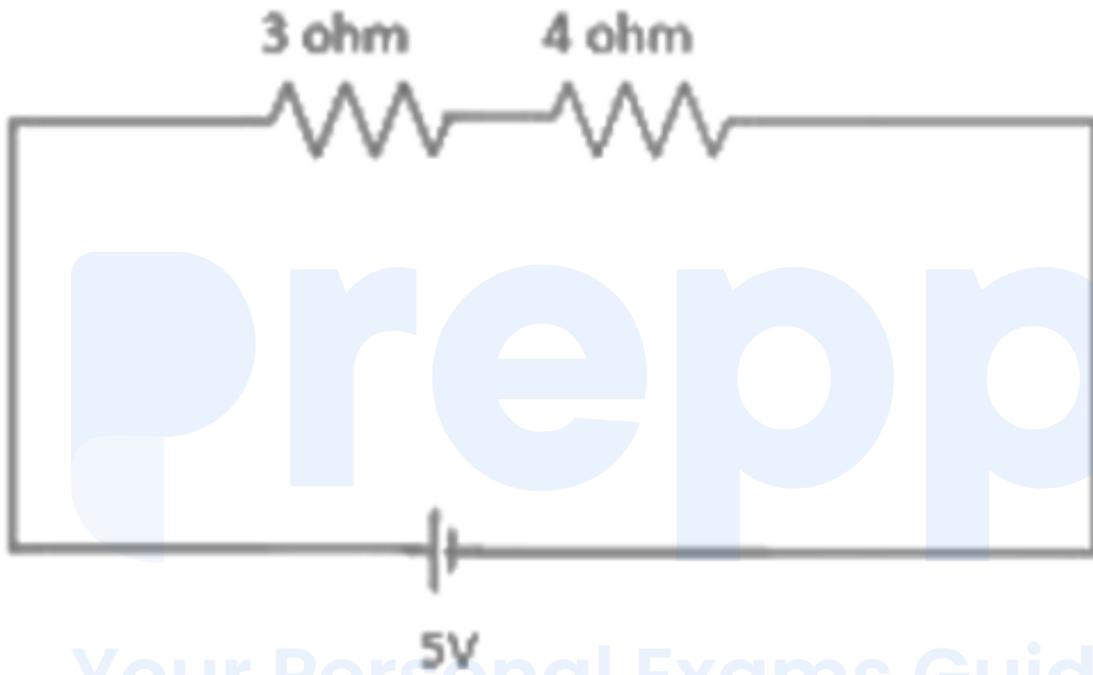
What is the approximate average population of state B for all the given years?

- a. 65 lakhs

- b. 62 lakhs
- c. 58 lakhs
- d. 70 lakhs

100. The current across the 3 ohm resistance in the given circuit is:

(+1, -0.33)



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- a.  $7/5$  A
- b.  $5/3$  A
- c.  $3/5$  A
- d.  $5/7$  A