Decoding
OSSC
CGLRE
2023

SAMPLE PAPERS

Decoding OSSC CGLRE 2023 with Sample Papers

Are you planning to appear for the OSSC CGLRE Exam 2023?

If yes, then it is time for you to start preparing for the same.

OSSC CGL Recruitment 2023 Notification Pdf: OSSC Released Combined Graduate Level Exam Date for 495 Posts. Interested candidates can also apply online for this job opportunity OSSC CGL application will start on 14 October 2023 at the official website @ossc.gov.in. OSSC CGL Exam Date 2023 will be notified soon with notification This page contains all the necessary information regarding OSSC CGL Eligibility Criteria, Salary, Selection Process, Age Limit, Admit Card, etc.

OSSC CGL Notification 2023 Review

OSSC CGL Notification 2023: The OSSC CGL 2023 notification review contains some highlights and important details that candidates should be aware of. Detailed information about OSSC CGL Notification is discussed further in this article, but here, given below, is an overview of OSSC CGL Notification 2023:

OSSC CGL 2023 Notification	
Name of the Exam	OSSC Combined Graduate Level Exam
Conducting Body	Odisha Staff Selection Commission
OSSC Official Website	www.ossc.gov.in
OSSC CGL Job Category	Group B & C
Job Location	Odisha
OSSC CGL Recruitment Vacancy	495
OSSC CGL Notification OUT	07 October 2023

OSSC CGL Recruitment 2023 Important Dates

OSSC CGL Recruitment 2023 Exam Date: OSSC CGL Recruitment 2023 online application and exam date will be announced soon.

OSSC CGL Exam Date 2023	
Events	Dates
OSSC CGL Recruitment Notification 2023	07 October 2022
OSSC CGL Online Application starts	14 October 2023
OSSC CGL Last Date to Apply Online	11 November 2023

OSSC CGL Recruitment 2023: Apply Online

OSSC CGL Recruitment 2023 Apply Online: Candidates interested to apply for OSSC CGL Recruitment 2023 can do so by visiting the official website of OSSC. OSSC CGL online application process is simple and easy to follow Candidates are advised to fill the application form carefully and upload all the required documents as per the instructions provided Direct OSSC CGL Recruitment 2023 Online Application Link will be provided here

How to Apply OSSC CGL 2023?

Apply OSSC CGL 2023 Online: Candidates can apply online for OSSC CGL 2023 exam by following the steps given below. The OSSC CGL application process is easy and can be done through a mobile phone or computer/laptop Follow these OSSC CGL apply online steps:

Visit the official website of OSSC

Click on the "Online Application" button on the home page / (in case of new users)

Click on "User", a user id and password will be generated

Log in with your registration ID and password

Read all the instructions carefully before starting the application process

Fill all the required details carefully

Pay the application fee if applicable

Submit the application

The OSSC CGL application fee can be paid online through a credit/debit card, internet banking or a UPI-enabled payment gateway.

Category Wise Break up Vacancy Positions

Sl. No	Name of the Posts/ Services	Name of the Department	Category wise Vacancy				
			UR (Out of which women)	SEBC (Out of which women)	SC (Out of which women)	ST (Out of which women)	Total (Out of which women)
1	Auditor	Board of Revenue, Odisha, Cuttack	21 (W-01)	Nil	08 (W-02)	06 (W-02)	35 (W-05)
2	Auditor	Directorate of Higher Secondary Education, Odisha	02 (W-01)	Nil	Nil	Nil	02 (W-01)
3	Auditor	Directorate of Local Fund Audit, Odisha, Bhubaneswar	42 (W-14)	34 (W-11)	13 (W-04)	30 (W-10)	119 (W-39)
4	Auditor (CCA)	Finance Department, Odisha	48 (W-11)	16 (W-05)	10 (W-03)	08 (W-06)	82 (W-25)
5	Auditor	Directorate of Prisons & Correctional Services, Odisha, Bhubaneswar	Nil	Nil	Nil	01	01
6	Inspector of Textiles	Directorate of Textiles, Odisha, Bhubaneswar	Nil	Nil	02 (W-01)	02 (W-01)	04 (W-02)
7	Sub-Divisional Financial Service and Savings Officer	Directorate of Savings and Financial Services, Finance Department, Odisha	05 (W-01)	01	03 (W-02)	03 (W-01)	12 (W-04)
8	Welfare Extension Officer	SC& ST Development, Minorities & Backward Classes Welfare Department	31 (W-11)	01	13 (W-04)	10 (W-03)	55 (W-18)
9	Inspector of Supplies	Food Supply & Consumer Welfare Department	20 (W-08)	Nil	09 (W-04)	09 (W-01)	38 (W-13)
10	Handicrafts	Directorate of Handicrafts,	02	Nil	02	Nil	04

			(W-01)		(W-01)		(W-02)
	Promotion Officer	Odisha, Bhubaneswar					
11	Junior Accountant	Directorate of Town Planning, Odisha	02 (W-01)	Nil	Nil	Nil	02 (W-01)
12	Junior Assistant (HOD)	Directorate of Town Planning, Odisha	01	Nil	Nil	01	02
13	Junior Assistant (Field Offices)	Directorate of Town Planning, Odisha	07 (W-01)	02 (W-01)	03 (W-01)	04 (W-01)	16 (W-04)
14	Junior Assistant (HOD)	Registrar of Cooperative Societies, Odisha	02 (W-01)	Nil	01	01	04 (W-01)
15	Junior Assistant (HOD)	Directorate of Factories & Boilers, Odisha	02 (W-01)	Nil	Nil	01	03 (W-01)
16	Junior Assistant (HOD)	Office of the Labour Commissioner, Odisha	01	Nil	Nil	Nil	01
17	Junior Assistant (HOD)	Engineer-In-Chief (Water Resources), Odisha	05 (W-02)	02 (W-01)	03 (W-01)	05 (W-02)	15 (W-06)
18	Junior Assistant (HOD)	Odisha Sales Tax Tribunal, Cuttack	02 (W-01)	Nil	01	01	04 (W-01)
19	Junior Assistant (HOD)	Directorate of AYUSH, Odisha	02 (W-01)	01	01 (W-01)	01	05 (W-02)
20	Junior Assistant (HOD)	Directorate Ports and Inland Water Transport, Odisha	02	Nil	Nil	Nil	02
21	Junior Assistant (HOD)	Directorate of Agriculture and Food Production, Odisha	10 (W-04)	03 (W-01)	04 (W-01)	05 (W-02)	22 (W-08)
22	Junior Assistant (HOD)	Directorate Higher Secondary Education, Odisha	13 (W-4)	03 (W-01)	05 (W-02)	07 (W-02)	28 (W-09)
23	Junior Assistant (HOD)	Directorate of Treasuries and Inspection, Odisha	04 (W-01)	Nil	01	01 (W-01)	06 (W-02)
24	Junior Assistant (HOD)	Revenue Divisional Commissioner (Southern Division), Berhampur	Nil	Nil	Nil	01	01
25	Junior Assistant (HOD)	Directorate of Printing, Stationery & Publication, Odisha	02 (W-01)	Nil	Nil	01	03 (W-01)
26	Junior Assistant (HOD)	Directorate of Handicrafts, Odisha, Bhubaneswar	04 (W-01)	01	01	01	07 (W-01)
27	Junior Assistant (HOD)	Directorate of SC, ST Research & Training Institute, Bhubaneswar	01	Nil	Nil	Nil	01
28	Junior Assistant (HOD)	Revenue Divisional Commissioner (Central Division), Cuttack	07 (W-02)	01	02 (W-01)	03 (W-01)	13 (W-04)
29	Junior Assistant (HOD)	Revenue Divisional Commissioner (Northern Division), Sambalpur	01	Nil	Nil	Nil	01
30	Junior Assistant (HOD)	Directorate of Soil Conservation and Watershed Development, Odisha, Bhubaneswar	02 (W-01)	Nil	02 (W-01)	02	06 (W-02)
31	Junior Assistant (HOD)	Controller of Legal Metrology, Odisha, Bhubaneswar	01	Nil	Nil	Nil	01
	TOTAL		242 (W-70)	65 (W-20)	84 (W-29)	104 (W-33)	495 (W-152)

OSSC CGLRE Exam Pattern 2023

Subject	No of Question	Marks	Duration
Arithmetic and Numerical Ability	45	45	
Data Interpretation	30	30	
Reasoning Ability	36	36	150 Minutes
Current Events	21	21	
Computer Awareness	18	18	

OSSC CGL Stage 1 Prelims Exam

OSSC CGL Prelims consists of 1 paper

OSSC CGL Preliminary Total Marks -150 Marks

OSSC CGL Preliminary Exam will be conducted through CBRE (Computer Based Recruitment Test) mode

OSSC CGL questions will be objective type

There will be a negative mark of 0.25 marks for wrong answer in OSSC CGL exam As the OSSC CGL written exam is conducted through multiple shifts

OSSC CGL Stage 2 Mains Written Exam

OSSC CGL Mains written exam has 2 papers

OSSC CGL Main Written Total Marks- 200

OSSC CGL Main Written Exam will be conducted through CBRE (Computer Based Recruitment Test) mode and Pen-Paper mode.

OSSC CGL questions will be objective type and short answer type

There will be a negative mark of 0.25 marks for wrong answer in OSSC CGL exam As the OSSC CGL written exam is conducted through multiple shifts

OSSC CGL Stage 3 Certificate Verification

Candidates who clear the written test will be called for OSSC CGL certification verification process

There will be no viva-vos

Candidates who are absent during the OSSC CGL certificate verification round, their name will be deleted from the OSSC CGL final selection list.

OSSC CGL 2023 Salary

OSSC CGL Salary 2023: As per the OSSC CGL notification, the initial OSSC CGL salary for the first year is 25,300/- per month and will be increased thereafter. Along with OSSC CGL salary, the selected officers will be provided allowances like DA, HRA, etc OSSC CGL Salary Slip will contain the OSSC CGL starting pay and allowances

OSSC CGL 2023 Qualification

Candidates are required to fulfill OSSC CGL 2023 age and educational criteria to apply for OSSC CGL exam. OSSC CGL age and eligibility criteria are given below:

OSSC CGL Age Limit Criteria (as of 1 January 2021)

OSSC CGL Age Limit Criteria are given below It should be noted that all age-related details must be true and valid as if any discrepancy occurs while fulfilling the OSSC CGL age criteria, the candidate may be canceled. OSSC CGL Age Criteria are as follows:

Candidates must have attained the age of 21 years and not more than 38 years

OSSC CGL age relaxation for various categories is given below:

SC/ST/SEBC/Women	5 years
PwD	10 years
Ex-servicemen	No. of service years rendered

OSSC CGL Educational Qualification

Candidates who fulfill the OSSC CGL educational qualification given below can apply for the OSSC CGL exam.
Candidates must have a Bachelor's Degree from any recognized University or equivalent qualification
Certificate of passing HSE or ME standard in Odisha as a subject language

OSSC CGLRE 2023 Notification Details	
OSSC CGLRE Recruitment 2023	Click Here
OSSC CGLRE Syllabus 2023	Click Here
OSSC CGLRE Salary Slip	Click Here
OSSC CGLRE Eligibility Criteria	Click Here
OSSC CGLRE Previous Year Cut off	Click Here
OSSC CGLRE Previous Year Exam Analysis	Click Here
OSSC CGLRE Notification OUT	07 October 2023

ENGLISH
OSSC 2023
CGLRE
PRELIMS
30 TOTAL TESTS

ସଂଜୀବନୀ
A FOUNDATION BATCH FOR
OSSSC COMBINED EXAMS 2023
LIVESTOCK, FORESTER & FOREST GUARD
10TH OCT 2023
BATCH STARTS:

ENGLISH
ODISHA 2023
FIREMAN
50+ TOTAL TEST

1. A and B can separately do a work in 20 and 15 days respectively. They worked together for 6 days after which B was replaced by C. If the work is finished in next four days, the number of days in which C alone can do the work will be–
   (a) 45 days (b) 35 days
   (c) 40 days (d) None of these

2. The speeds of three students are in the ratio 2 : 3 : 4. The ratio of the time taken by these students to travel the same distance is
   (a) 2 : 3 : 4 (b) 4 : 3 : 2
   (c) 4 : 3 : 6 (d) 6 : 4 : 3

3. Pipe A can fill a tank in 4 hrs. and pipe B can fill it in 6 hrs. If they are opened on alternative hour, in how many hours the half tank will be filled?
   (a) 4 hrs. (b) 5 hrs.
   (c) 4⅔ hrs. (d) None of these

4. Rs 9000 is divided among P, Q and R in the ratio of 5 : 6 : 7. What is the share (in Rs) of R?
   (a) 2500 (b) 3500
   (c) 3000 (d) 4000

5. A mixture of 50 kg of cement and gravel contains 10% of gravel. How many kg of gravel must be added to make the gravel content 28% in the new mixture?
   (a) 14.5 (b) 10.5
   (c) 12.5 (d) 17.5

6. The average of 7 numbers is 30. If the average of first three numbers is 25 and that of last three numbers is 35, then what is the fourth number?
   (a) 30 (b) 35
   (c) 37.5 (d) 40

7. If selling price and cost price of an article are Rs 684.25 and Rs 595 respectively, then what is the profit percentage?
   (a) 15 (b) 10
   (c) 12.5 (d) 20

8. The marked price of a book is Rs 4200. The shopkeeper gives two successive discounts of 25% and y% to the customer. If the customer pays Rs 2898 for the book, then what is the value (in percentage) of y?
   (a) 7 (b) 8
   (c) 6 (d) 5

9. Find the average of all prime numbers from 1 to 50.
   (a) 21.867 (b) 22.857
   (c) 23.887 (d) 24.867 52.

10. If $3\sqrt{7} + \sqrt{343} = 19.21$, then find the value of $\sqrt{252} + 20\sqrt{7}$.
    (a) 39.4 (b) 49.9
    (c) 56.8 (d) 92.3

11. The ratio of salary of X, Y and Z is 15 : 3 : 8. If Z gets Rs 3960 more than Y, then what is the salary (in Rs) of X?
    (a) 11880 (b) 12360
    (c) 9900 (d) 10240

12. In a mixture, sugar and milk are in the ratio 4 : 5. If 7 litres of milk is added to it, then the ratio of sugar and milk in the new mixture becomes 2 : 3. What is the total quantity (In litres) of sugar in new mixture?
    (a) 35 (b) 28
    (c) 42 (d) 24

13. A boy spends Rs 20 to purchase toffees at Rs 1 each. Next day, he purchased some toffees for Rs 40 with a discount of 50 paise per toffee. What is the average price per toffee (in paise)?
    (a) 45 (b) 60
    (c) 40 (d) 55

14. A sum of Rs 6000 becomes Rs 7200 in 2 years, when invested in a scheme of simple interest. If the same sum is invested in a scheme of compound interest with same yearly interest rate (compounding of interest is done yearly), then what will be the amount (in Rs) after 3 years?
    (a) 7434 (b) 8244
    (c) 7864 (d) 7986

15. Vinay professes to lose 4% on sugar and uses a weight of 620 gm instead of 1 kg. What is the total profit percentage?
    (a) 44.24 (b) 34.14
    (c) 35.41 (d) 54.84

16. What is the difference (in Rs) between compound interest (compounded annually) and simple interest for 3 years on a principal of Rs 3000 at the annual rate of 20%?
    (a) 464 (b) 384
    (c) 356 (d) 424

17. A dishonest shopkeeper uses a weight of 850 gm instead of 1 kg and sells rice on its cost price. What will be his profit percentage on selling 5 kg rice?
    (a) 18.24 (b) 17.65
    (c) 15 (d) 13.04

18. What is the simplified value of $2\sqrt[3]{243} + 3\sqrt[3]{9} - \sqrt[3]{1125}$?

(a) $5\sqrt[3]{9}$ (b) $4\sqrt[3]{9}$

(c) $7\sqrt[3]{9}$ (d) $11\sqrt[3]{9}$

19. The population of a town is 10,000. It increased by 10% during the first year. During the second year, it decreased by 20% and increased by 30% during the third year. What is the population after 3 years?

(a) 11440   (b) 12440

(c) 13450   (d) 14440

20. Copper and zinc are in the ratio 2 : 3 in 200 gms of an alloy. The quantity (in grams) of copper to be added to it to make the ratio 3 : 2 is

(a) 100   (b) 120

(c) 125   (d) 150

21. The average salary per head of all the workers of an office is Rs. 95. The average salary of 15 officers is Rs. 525 and the average salary of the rest is Rs. 85. Find the total numbers of workers?

(a) 645   (b) 660

(c) 630   (d) None of these

22. In a bag of candies, the ratio of red candies to green candies is 3:4. If there are 42 green candies, how many red candies are there?

(a) 24   (b) 42

(c) 28   (d) 32

23. A trader buys 100 kg of wheat for Rs.200 and sells it at a loss of 5%. What is the selling price of the wheat?

(a) Rs.150   (b) Rs. 175

(c) Rs. 190   (d) Rs. 182

24. What would be the result of the following expression?

$$\frac{597 \times 597 - 597 \times 3 + 3 \times 3}{597 \times 597 \times 597 + 3 \times 3 \times 3}$$

(a) $\frac{1}{595}$ (b) $\frac{1}{600}$

(c) $\frac{1}{12}$ (d) 1

25. Simplify the expression 5 - 2(3x - 2) + 3(2x + 1 ÷ 4x).

(a) 4+3x   (b) 5+3/4x

(c) 9 + 3/4x   (d) 0

26. If $\frac{2}{3}$ of A = 50% of B = 0.8 of C, then A : B : C is:

(a) 2 : 3 : 3   (b) 3 : 4 : 5

(c) 6 : 8 : 5   (d) 9 : 8 : 10

27. The average mathematics marks of two sections A and B of class IX in the annual examination is 64. The average marks of section A is 66.5 and that of section B is 60. The ratio of the number of students of section A and B is:

(a) 8 : 5   (b) 8 : 7

(c) 7 : 8   (d) 8 : 9

28. Find the value of (20 + (2×10) ÷ (2 + 3) – 2) + 1.

(a) 20   (b) 23

(c) 26   (d) 10

29. Rs 'x' is invested at 8% simple interest per annum for 5 years yields the same interest as that on Rs 'y' invested at 7.5% simple interest per annum for 6 years. Find x : y.

(a) 16 : 15   (b) 9 : 8

(c) 5 : 6   (d) 40 : 45

30. A defective piece of article which costs Rs 1200 is being sold at a loss at 15%. If the price is further reduced by 5%, find the SP.

(a) Rs 960   (b) Rs 1000

(c) RS 990   (d) Rs 969

31. A company bought a machine for Rs.60,000 and sold it for Rs.45,000. What is the loss percentage incurred by the company?

(a) 22%   (b) 25%

(c) 15%   (d) 23%

32. The ratio of boys to girls in a class is 4:3. If there are 28 girls in the class, how many boys are there?

(a) 37   (b) 32

(c) 28   (d) 42

33. A train covers a distance of 600 km in 8 hours. If it covers the same distance in the opposite direction in 10 hours, what is its average speed for the entire journey?

(a) 66.67%   (b) 54.64%

(c) 62%   (d) 58.50%

34. A car travels from city A to city B, a distance of 240 km, at an average speed of 60 km/h. It then returns from city B to city A along the same route at an average speed of 40 km/h. What is the /average speed of the car for the entire journey?

(a) 32km/h.   (b) 48km/h.

(c) 38km/h.   (d) 42km/h

35. The average sum scored by a batsman in his 20 innings is 42. If he got out after scoring 84 runs in the next inning, then what will be his new average?

(a) 45   (b) 44

(c) 46   (d) 47

36. The sum of the present ages of Hari and Mohan is double of their difference. Four years ago this ratio was one and half times. Find the ratio of their ages after 12 years.

(a) 9:5   (b) 8:5

(c) 9:8   (d) 5:4

37. $12\frac{1}{2}\%$ of how much litre is 25 milli litre.

(a) 0.1 liter   (b) 0.2liter

(c) 0.3 liter   (d) 0.4 liter

38. The speed of the stream is 5 km/hr. A motorboat goes 10 km upstream and back again to the starting point in 50 minutes. What is the speed of the motorboat in still water?

(a) 20 km/h   (b) 25 km/h

(c) 28 km/h   (d) 30 km/h

39. Rohan gets 3 marks for each correct answer and loses 2 marks for each wrong answer. He attempts 30 sums and obtained 40 marks. The number of sums solved incorrectly is:

(a) 15   (b) 20

(c) 25   (d) 10

40. The salaries of A, B and C are in the ratio 1 : 3 : 4. If the salaries are increased by 10%, 15% and 20% respectively. Then the increased salaries will be in the ratio.

(a) 21 : 66 : 92   (b) 21 : 65 : 92

(c) 22 : 68 : 95   (d) 22 : 69 : 96

41. Two trains of length 140 m and 100 m long are going on a parallel track in same direction at a speed of 90 kmph and 18 kmph respectively. What is the time taken for the trains to cross each other completely?

(a) 12 sec   (b) 10 sec

(c) 16 sec   (d) 24 sec

42. Amit and Bhanu together have Rs 1500. If ¼ th of Amit's amount is equal to 1/2 of Bhanu's, then how much amount Amit has?

(a) 500   (b) 1000

(c) 1250   (d) 200

43. Anand switched on a bulb at 1 : 23 : 45 hrs and switch it off on the same day at 5 : 43 : 21 hrs. For how long was the bulb in switch on mode?

(a) 4 : 20 : 24   (b) 4 : 40 : 06

(c) 4 : 19 : 36   (d) 3 : 20 : 36

44. A man sells a product for Rs 2970 with a profit of 10%. What is the cost price of the product?

(a) Rs 2650   (b) Rs 2850

(c) Rs 2750   (d) Rs 2700

45. Ajitha borrowed Rs 90,000 at 10% per annum simple interest. On the same day, she lent the sum to her friend at the same rate but compounded annually. How much does she gain at the end of 3 yrs?

(a) Rs 2790   (b) Rs 2810

(c) Rs 2800   (d) Rs 2570

Directions (46-49): The bar graph shows the number of SUVs of different brands sold by a dealer in a month. Study the diagram and answer the following questions.


46. Units sold of which SUV brand were the lowest?

(a) F   (b) A

(c) E   (d) C

47. What is the ratio of units sold of brand G to that of brand A?

(a) 5 : 4   (b) 4 : 5

(c) 11 : 14   (d) 14 : 11

48. Units sold of brand B was lesser than that of brand D by _____.

(a) 5%   (b) 6.67%

(c) 6%   (d) 6.25%

49. If the average price of a SUV sold by the dealer is Rs 8 lakhs then what is the sales (in Rs lakhs) of all the SUV sold by the dealer in the month?

(a) 1280   (b) 12000

(c) 12800   (d) 1200

Directions (50-53): The line graph shows the production of steel of a certain country. Study the diagram and answer the following questions.

Steel Production (in million tonnes)

50. In which year was the steel production lesser than that of the previous year?
(a) 2013   (b) 2014
(c) 2012   (d) 2016

51. What was the difference (in million tonnes) in the steel production between the years 2011 and 2015?
(a) 10   (b) 5
(c) 15   (d) 20

52. The steel production in 2012 were greater than that in 2015 by _____.
(a) 80%   (b) 73.6%
(c) 200%   (d) 280%

53. If 1 tonne of steel costs Rs 30,000, then what was the cost (in Rs billion) of the steel production in the year 2017?
(a) 240   (b) 3000
(c) 2400   (d) 300

Directions (54-57): The bar graph shows the population of different countries. Study the diagram and answer the following questions.

Population (in millions)
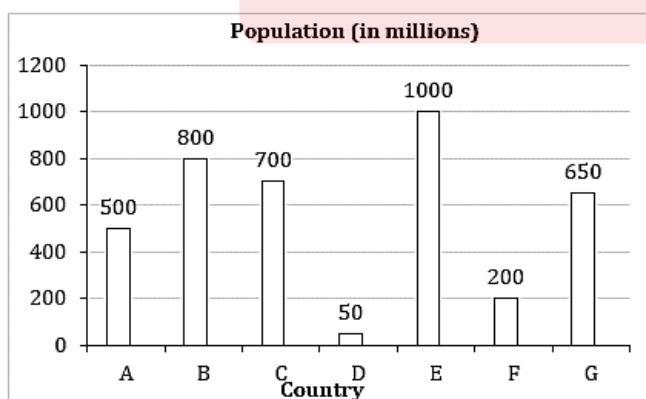
54. Which country has the second highest population?
(a) B   (b) D
(c) E   (d) A

55. What is the ratio of population of country A to that of country G?
(a) 13 : 10   (b) 10 : 13
(c) 5 : 13   (d) 13 : 5

56. Population of country E is greater than that of country A by _____.
(a) 200%   (b) 100%
(c) 50%   (d) 150%

57. If country D spends $120 per person on health annually, then how much does it spend (in $ millions) on health on its entire population?
(a) 6000   (b) 600
(c) 2400   (d) 240

Directions (58-61): The bar graph shows results of a survey. 1500 people exiting voting booths were asked for which party they voted. Study the diagram and answer the following questions.
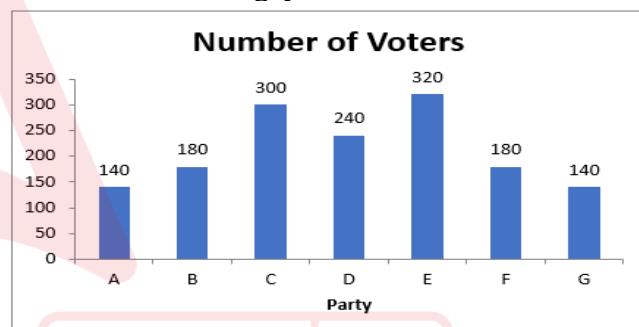
Number of Voters

58. Which party had the second highest number of voters?
(a) C   (b) F
(c) D   (d) E

59. What is the ratio of voters of party D to voters of party G?
(a) 7 : 12   (b) 15 : 8
(c) 12 : 7   (d) 8 : 15

60. Number of voters of party A were lesser than that of party C by _____.
(a) 35.75%   (b) 53.33%
(c) 26.67%   (d) 45.75%

ENGLISH

OSSC 2023
CGLRE
PRELIMS

30 TOTAL TESTS

61. If 30% of voters of party C had voted for party B, then party B's voters would have increased by _____.
(a) 33.3%   (b) 90%
(c) 50%   (d) 30%

Directions (62-65): The bar graph shows 1 month's sales figures of different brands of televisions of a certain electronics store in Rs. 1000s. Study the diagram and answer the following questions.


Sales (in Rs. 1000s)
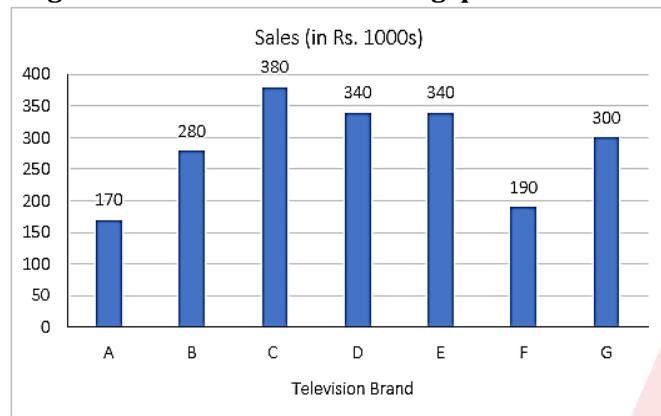
62. Sales of which television brand were the second lowest?
(a) A   (b) C
(c) G   (d) F

63. What is the ratio of sales of brand E to that of brand A?
(a) 1 : 2   (b) 2 : 1
(c) 4 : 1   (d) 1 : 4

64. Sales of brand B was lesser than that of brand G by _____.
(a) 3.75%   (b) 6.67%
(c) 7.14%   (d) 5.25%

65. If the sales figures are exclusive of tax then at the rate of 12% tax how much is the tax to be paid (in Rs) on the sales of all the 7 brands of televisions?
(a) 240000   (b) 24000
(c) 420000   (d) 42000

Directions (66-69): The line graph shows the number of deaths due to dengue in a certain state. Study the diagram and answer the following questions.
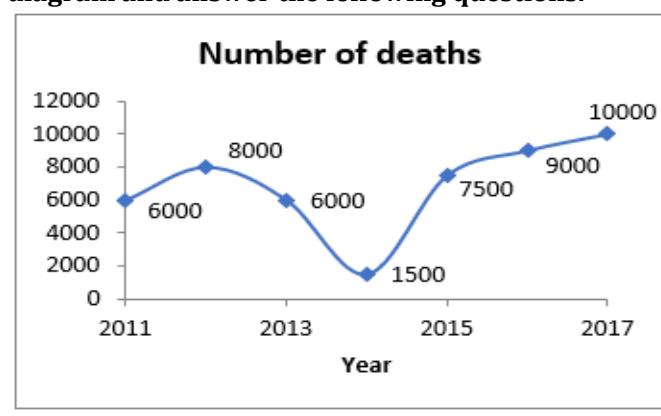
Number of deaths

66. In which year were the number of deaths lesser than that of the previous year?
(a) 2015   (b) 2016
(c) 2014   (d) 2017

67. What was the difference in the number of deaths between the years 2012 and 2014?
(a) 5500   (b) 6000
(c) 5000   (d) 6500

68. The number of deaths in 2013 were lesser than that in 2016 by _____%.
(a) 50   (b) 16 .66
(c) 33.33   (d) 100

69. If on an average Rs 10 lakhs were paid as insurance for each death due to a dengue, then how much insurance was paid (in Rs crore) in the year 2015?
(a) 750   (b) 1250
(c) 1000   (d) 1500

Directions (70-73): The bar graph shows the number of motorcycles of different brands sold by a dealer in a month. Study the diagram and answer the following questions.

Number of Units sold
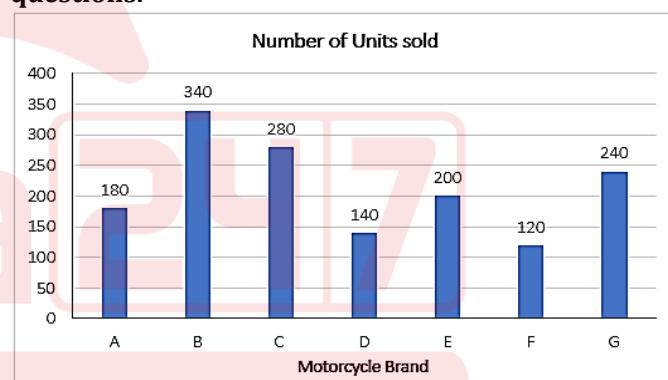
70. Units sold of which Motorcycle brand were the second highest?
(a) C   (b) B
(c) G   (d) D

71. What is the ratio of units sold of brand A to that of brand C?
(a) 9 : 14   (b) 14 : 9
(c) 11 :14   (d) 14 : 11

72. Units sold of brand D was lesser than that of brand E by _____.
(a) 37.20%   (b) 60%
(c) 42.80%   (d) 30%

73. If the average price of a Motorcycle sold by the dealer is Rs 1 lakh then what is the sales (in Rs lakhs) of all the motorcycles sold by the dealer in the month?
(a) 150   (b) 1600
(c) 160   (d) 1500

74. The bar chart given below shows the number of audiences in a multiscreen theatre for 3 shows.
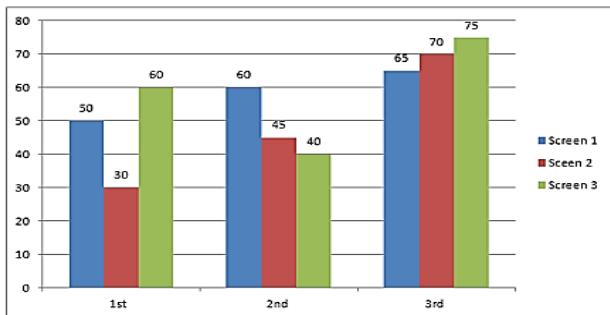
What is the approximate percentage increases in the total number of audiences from second show to third show?
(a) 52.82%   (b) 40.82%
(c) 55%   (d) 44.82%

75. The bar chart given below shows the number of audiences in a multiscreen theatre for 3 shows.
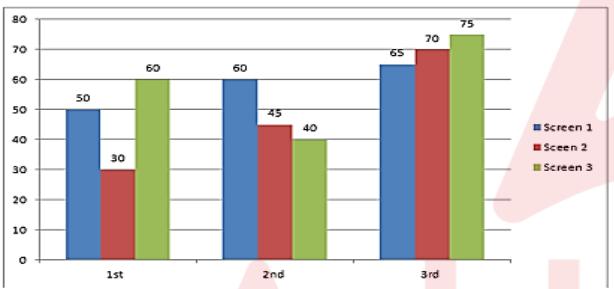
If the tickets for screen 1, screen 2 and screen 3 are Rs.250, Rs.400 and Rs.200 respectively. Then which screen has the maximum total revenue for the three shows?
(a) Screen 1   (b) Screen 1 and screen 3
(c) Screen 2   (d) Screen 3

Directions (76-78): A series is given with one term missing choose the correct alternative from the given ones that will complete the series.

76. JI5, NK10, RM15, VO20, ?
(a) ZQ25   (b) ZR25
(c) AQ30   (d) Y R 25

77. aAbb, bBcc, cCdd, dDee, eEff, ?
(a) fFhh   (b) fFgg
(c) gHii   (d) fFhi

78. 25, 35, 50, 70, ?
(a) 95   (b) 85
(c) 90   (d) 100

79. Consider the given statements to be true and decide which of the given conclusion can definitely be drawn from the given statements.
Statements
All cells are bins.
All bins are petals.
No petal is leaf.
All roots are leafs.
Conclusions
I. No Bin is leaf
II. All bins are cell
(a) Either I or II follows
(b) Both I and II follow
(c) Only I conclusion follows
(d) Only II conclusion follows

80. Aradhya travels 500m towards North and turns left, then she travels 250m. She again turns left and travels another 250 m. Now in which direction is she with respect to her starting position?
(a) South-West   (b) South-East
(c) North-East   (d) North-West

81. Select the missing number based on the given related pair to numbers
27 : 65 : : 64 : ?
(a) 125   (b) 126
(c) 127   (d) 124

82. Select the appropriate combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.
__vww___uuv__wvuu__w
(a) uvwv   (b) uwvu
(c) vwuv   (d) uvwu

83. Pointing towards a girl, a man said, "She is the sister of the son of the only daughter of my father- in- law". How that girl is related to man ?
(a) wife   (b) Sister
(c) Mother   (d) Daughter

84. In the following figure, Square represents artists, triangle represents coders, circle represents doctors and rectangle represents men. Which set of letters represents male artists who cannot code.
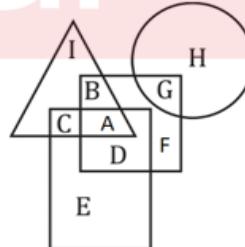

(a) F   (b) D
(c) B   (d) G

85. Anil rides 7 km north, then turns left and moves 5 km, then takes another left and moves 5 km from here, he moves towards east for a 9 km. Where is he now with reference to his starting position.
(a) North   (b) North-West
(c) South-east   (d) North-east

86. From the given word select the word which cannot be formed using the letter of the given word?

Renaissance

(a) Rain   (b) Scene

(c) Sense   (d) Essence

87. Arun and Ram went to a ticket counter to get movie tickets. If Arun is at 5th position from front and Ram is at 7th from back. If there are two more person in front of Ram in the queue. Then the position of Arun from back of the queue is:

(a) 2nd   (b) 7th

(c) 5th   (d) 12th

88. There are three statements which are followed by three conclusions. Choose the conclusion which logically follow from the given statements.

Statements: Many Medicines contain Fish oil.

Conclusion:

1. All the vegetarians are also Pescatarians.

2. Some vegetarians consume such medicines to cure their diseases.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Neither I nor II follows

89. Select the odd pair which does not follow the same relationship as followed by other three pairs.

(a) common :rare   (b) worldly : wise

(c) routine: novel   (d) secular: clerical

90. Find the odd one out.

(a) acute   (b) right

(c) obtuse   (d) parallel

91. There is a statement which is followed by two conclusions. Choose the conclusion which logically follow from the given statement.

Statement: The serious accident in which a person was run down by a car yesterday had again focused attention on the most unsatisfactory state of roads.

Conclusions:

1. The accident that occurred was fatal.

2. Several accidents have so far taken place because of unsatisfactory state of roads.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Both I and II follow

92. Select the option that best explains the grouping of given 9 figure according to a particular relationship in three groups.

(a) ()() 1,2,3 ; 4,5,6 ; 7,8,9   (b) 1,3,5 ; 2,4,6 ; 7,8,9

(c) 1,5,9 ; 3,6,2 ; 4,7,8   (d) 1,9,7 ; 2,8,5 ; 3,4,6

93. Identify the figure that completes the pattern.

(a) 1   (b) 2

(c) 3   (d) 4

94. Choose a figure which would most closely resemble the unfolded form of Figure (Z).

(a) 1   (b) 2

(c) 3   (d) 4

95. There are three statements which are followed by three conclusions. Choose the conclusion which logically follow/follows from the given statements

Statements: Money plays a vital role in politics.

Conclusions:

1. The poor can never become politicians.

2. All the rich men take part in politics.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Neither I nor II follows

96. Pointing to a man in a photograph, Isha said. "His father's only son is my father". How is Isha related to that Man?

(a) Sister   (b) Niece

(c) Mother   (d) Daughter

97. If in a certain language, COMPUTER is coded as 24681973. How is ROTER coded in that language?

(a) 3 7 6 8 9   (b) 3 9 4 3 7

(c) 3 4 9 7 3   (d) 3 6 8 3 4

98. Insert the missing character depicted by ?'

4	8	5
3	2	3
5	4	5
17	20	?

(a) 15   (b) 20
(c) 42   (d) 12

Directions (99-101): Study the following figures and answer the questions given below.
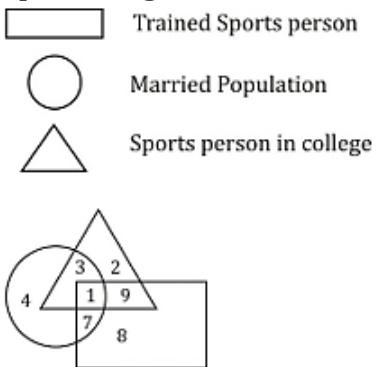
99. By which number, the untrained married sportsperson in the college are represented?
(a) 1   (b) 3
(c) 7   (d) 9

100. What is represented by the number '9'?
(a) Married sportsperson in the college.
(b) Trained sportsperson
(c) Unmarried trained sportsperson
(d) Married trained sportspersons

101. By which number, the trained unmarried sportsperson in the college are represented.
(a) 2   (b) 3
(c) 7   (d) 9

102. Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.
(a) 6 : 18   (b) 8 : 32
(c) 12 : 72   (d) 14 : 94

103. Three of the following four letter-clusters are alike in a certain way and one is different. Find the odd one out.
(a) ILOU   (b) AEIU
(c) EIOU   (d) AIOU

104. Three of the following four letter-clusters are alike in a certain way one is different. Find the odd one out.
(a) MNOQ   (b) QSUW
(c) BDFH   (d) EGIK

105. In the following question, select the odd word pair from the given alternatives.
(a) Court – Justice   (b) Education – School
(c) Product –Shop   (d) Treatment – Hospital

106. In the following question, four number pairs are given. The number on left side of (–) is related to the number on the right side of (–) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the
(a) 63 –67   (b) 17 – 21
(c) 39 – 43   (d) 31 – 37

107. Which of the following terms follows the trend of the given list?
abaBABAB, AbabABAB, ABabaBAB, ABAbabAB, ABABabaB, _____.
(a) aBABABab   (b) ABABAbab
(c) abaBABAB   (d) AbabABAB

108. A flock of migrating geese flies 20 km East, then turns South and flies 50 km, then turns East and flies 40 km, and turns to its left and flies 50 km. Where is the flock now with reference to its starting position?
(a) 20 km East   (b) 60 km East
(c) 60 km West   (d) 20 km West

109. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
Statement I: Some razors are blades
Statement II: All knives are razors
Conclusion I: Some razors are knives
Conclusion II: No knives are blades
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

110. In the following question, select the related letter/letters from the given alternatives.
ACD : ZXW : : PMN : ?
(a) LMN (b) MPN
(c) KOP (d) KNM

111. In the following question, select the odd word from the given alternatives.
(a) Rhombus (b) Cylinder
(c) Cone (d) Sphere

112. When is World Post Day celebrated annually?
(a) October 7th (b) October 8th
(c) October 9th (d) October 10th

113. What is the theme of World Post Day 2023?
(a) Mail for All: Bridging the Gap
(b) Building a Digital Future
(c) Global Postal Innovation
(d) Together for Trust: Collaborating for a safe and connected future

114. On which date is Indian Foreign Service (IFS) Day celebrated annually?
(a) October 6th (b) October 7th
(c) October 8th (d) October 9th

115. In this edition of Asian Games, India won a total of how many medals?
(a) 105 (b) 106
(c) 107 (d) 108

116. Australia opener David Warner became the fastest batter to complete _____ in ODI World Cup during his side's match against India in Chennai.
(a) 1000 runs (b) 2000 runs
(c) 3000 runs (d) 4000 runs

117. Who had the honor of being India's flag bearer during the closing ceremony of Asian Games 2023?
(a) Mary Kom (b) P. R. Sreejesh
(c) Saina Nehwal (d) Neeraj Chopra

118. The Indian government, in collaboration with the Indian Drugs Manufacturers' Association (IDMA), is set to observe the first-ever National Current Good Manufacturing Practice Day (cGMP Day) on _____.
(a) 07th October (b) 08th October
(c) 09th October (d) 10th October

119. When is the Indian Air Force (IAF) celebrating its 91st Air Force Day in 2023?
(a) October 7th (b) October 8th
(c) October 9th (d) October 10th

120. Where did the 91st Air Force Day celebration occur?
(a) Mumbai (b) New Delhi
(c) Prayagraj (Allahabad) (d) Bangalore

121. Where is the world's largest modern Hindu temple outside India located?
(a) Surat (b) New York City
(c) New Jersey (d) Kanpur

122. The Nobel Prize in Literature 2023 is awarded to author Jon Fosse, "for his innovative plays and prose which give voice to the unsayable." Jon Fosse belongs to which country?
(a) Germany (b) Russia
(c) Norway (d) Spain

123. Which of the following countries/groups have approved new standards for companies issuing "green" bonds to help investors pick sustainable companies and avoid greenwashing or misleading climate-friendly claims?
(a) African Union
(b) European Union
(c) United States of America
(d) Australia

124. Who among the following has been conferred with the 2023 Nobel Peace Prize?
(a) Raoni Metuktire (b) Saba Kord Afshari
(c) Nazanin Afshin-Jam (d) Narges Mohammadi

125. Who secured a remarkable victory over Japan at the Gongshu Canal Sports Park Stadium in Hangzhou?
(a) Indian men's hockey team
(b) Chinese men's hockey team
(c) Japanese men's hockey team
(d) Australian men's hockey team

126. Which women's kabaddi team secure the gold medal in the Asian Games 2023?
(a) China (b) India
(c) Japan (d) Netherland

127. When is World Cotton Day observed each year?
(a) October 4 (b) October 5
(c) October 6 (d) October 7

128. What is the theme for World Cotton Day in 2023?
(a) Cotton: A Sustainable Resource
(b) From Farm to Fashion: Cotton's Journey
(c) Making cotton fair and sustainable for all, from farm to fashion
(d) Reviving Cotton Industry Worldwide

129. Who has been awarded the Dutch Spinoza Prize for her work in the field of climate change?
(a) Dr. Joyeeta Gupta (b) Dr. John Smith
(c) Dr. Maria Rodriguez (d) Dr. Li Wei

130. Computers were based on transistors in the _____ generation?
(a) First (b) Second
(c) Third (d) Fourth

131. Which of the following mouse can work on any surface from a granite countertop to a carpet?
(a) Mechanical mouse   (b) Optical mouse
(c) Laser mouse   (d) Blue Track mouse

132. Which of the following program designing tools are contain standard graphical symbols, used to represent the logic flow of data ?
(a) Algorithm   (b) structured chart
(c) Flow chart   (d) pseudocode

133. Which of the following word is odd one out of them?
(a) Applications   (b) Peripherals
(c) Programs   (d) Software

134. Which part of the CPU coordinates all the activities of a computer system?
(a) Motherboard
(b) Coordination board
(c) Control unit
(d) Arithmetic and logic unit

135. Which type of error can be find out by a compiler?
(a) Syntax error   (b) Semantics error
(c) Logical error   (d) Execution error

136. _____ ensures secure transfer of data over an unsecured network, such as the Internet?
(a) Antivirus   (b) Hacking
(c) Cracking   (d) Cryptography

137. Which can read data and convert them to a form that a computer can use?
(a) Logic   (b) Control
(c) Output device   (d) Input device

138. Which of the following is most important or powerful computer in a typical network?
(a) desktop   (b) network server
(c) network client   (d) network station

139. In which types of network are all the computers considered equal?
(a) Peer-to-peer   (b) Client/server
(c) Backbone   (d) Hybrid

140. Personal computers can be connected together to form a _____?
(a) Server   (b) Super computer
(c) Enterprise   (d) Network

141. Which of the following is a small microprocessor-based computer designed to be used by one person at a time?
(a) Network   (b) Supercomputer
(c) All-in-one   (d) Personal computer

142. Which among the following operation relates to a set of computers connected to a LAN?
(a) They can process faster
(b) Main purpose is to go on line
(c) They can now share information and/or share peripheral equipment
(d) Sole purpose of sending/receiving E-mail

143. Which among the following is the first general purpose electronic computer?
(a) EDVAC   (b) ADVAC
(c) Mac   (d) UNIVAC

144. Which memory appears to exist as main storage although most of it is supported by data held in secondary storage?
(a) Core memory   (b) Virtual memory
(c) RAM   (d) Dynamic memory

145. The address of a memory location is identified by which among the following?
(a) Address Bus   (b) Location Bus
(c) Identity Bus   (d) Attrition Bus

146. Which of the following type of software secretly collects information about you and your internet habits?
(a) Detectware   (b) Spam
(c) Spyware   (d) Spooling

147. A repair for a known software bug, usually available at no charge on the internet, is called a_____?
(a) Version   (b) Patch
(c) Tutorial   (d) FAQ

148. A handheld device that allows you to control your computer without typing instructions from a keyboard is known as_____?
(a) Tablet   (b) PDA
(c) Mouse   (d) Mike

149. Which of the following is not an example of a Web Browser?
(a) Outlook   (b) Internet Explorer
(c) Safari   (d) Chrome

150. What type of technology allows you to verbally speak with someone over the Internet?
(a) Wiki   (b) Ephone
(c) Social network   (d) VoIP

Solutions

1. (c):

Work done by A & B in 6 days $= \left(\frac{A+B}{A \times B}\right) \times 6$

$= \left(\frac{20+15}{20 \times 15}\right) \times 6 = \frac{7}{10}$

Remaining work $= 1 - \frac{7}{10} = \frac{3}{10}$

Work done by A & C in 4 days $= \left(\frac{A+C}{A \times C}\right) \times 4 = \frac{3}{10}$

$\left(\frac{20+C}{20 \times C}\right) \times 4 = \frac{3}{10}$

C = 40 days

2. (d):

time $\propto \frac{1}{speed}$

Req. ratio $= \frac{1}{2} : \frac{1}{3} : \frac{1}{4} = 6 : 4 : 3$

3. (d):

```
A=4          3
    >  12  <
B=6          2
```
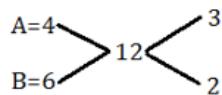
A & B filled tank in 2 hours =3+2=5units

Total time required to fill half tank i.e 6 units= $2 + \frac{1}{3}$ hr.

$= 2\frac{1}{3}$ hours.

4. (b):

P : Q : R = 5 : 6 : 7

We have 18 unit = 9000

∴ share of R $= \frac{9000}{18} \times 7 =$ Rs. 3500

5. (c):

We have,

C   G

45 Kg   5 Kg   = 50 kg

We have, 72% = 45 kg

∴ $28\% = \frac{45}{72} \times 28 = 17.5$

∴ 17.5 − 5 = 12.5 kg of gravel must be added.

6. (a):

Sum of 7 numbers = 7 × 30 = 210

Sum of first 3 numbers. = 3 × 25 = 75

Sum of last 3 numbers = 3 × 35 = 105

∴ 4th number = 210 − (75 + 105) = 30

7. (a):

Profit % $= \frac{684.25 - 595}{595} \times 100$

$= \frac{89.25}{595} \times 100$

= 15%

8. (b):

Costumer pays = 2898 Rs.

Price of book = Rs. 4200

Effective discount% $= \frac{1302}{4200} \times 100 = 31\%$

$-31 = -25 - y + \frac{25y}{100}$

$-6 = -\frac{3y}{4}$

$y = 8\%$

9. (a):

Sum of all prime number from 1 to 50.

2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 + 29 + 31 + 37 + 41 + 43 + 47 = 328

Avg. $= \frac{328}{15} = 21.867$

10. (b):

$3\sqrt{7} + \sqrt{343} = 19.21$ & $\sqrt{252} + 20\sqrt{7} = 6\sqrt{7} + 20\sqrt{7} = 26\sqrt{7}$

$10\sqrt{7} = 19.21$

$\Rightarrow 26\sqrt{7} = \frac{19.21}{10} \times 26 = 49.946$

11. (a):

We have, X: Y: Z = 15: 3: 8

We have 5 unit = 3960

∴ Salary of X = 15 unit $= \frac{3960}{5} \times 15 = 11880$

12. (b):

We have,

```
S              M
4       :      5   >  1 ——→ 7 litres
2×2     :      3×2        ×7
```

∴ 4 → 28 liters

13. (b):

Day	₹	No. of toffees
20		20
40		80
60		100

∴ Avg. price per toffee $= \frac{60}{100} \times 100 = 60$ paisa/toffee

14. (d):

SI = 7200 − 6000 = 1200

∴ R% $= \frac{1200 \times 100}{6000 \times 2} = 10\%$

∴ now, CI for 3 years

```
        10%
6000       600
           600    60
           600    120   6
```
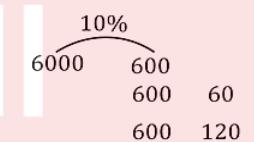
∴ Amount = 6000 + 3 × 600 + 60 + 120 + 6
= 6000 + 1800 + 60 + 120 + 6
= 7986

15. (d):

1 kg = 1000 gm

↓ −4% loss

960

CP   SP

now,   620   960

↓

−340

∴ Profit % $= \frac{340}{620} \times 100$

= 54.84%
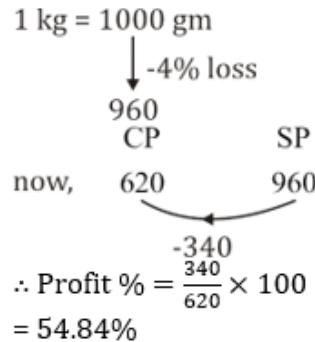
16. (b):

We have $20\% = \frac{1}{5}$

$3000 \rightarrow 600$

$\qquad 600 \quad 120$

$\qquad 600 \quad 120 \quad 120 \quad 24$

Difference between CI & SI

$= 120 + 120 + 120 + 24$

$= Rs\ 384$

17. (b):

Let CP of 5 kg rice $= 850 \times 5 = 4250$ gm

& SP of 5 kg rice $= 5000$ gm

Profit $\% = \frac{750}{4250} \times 100$

$= 17.65\%$

18. (b):

We have $2 \times \sqrt[3]{243} + 3\sqrt[3]{9} - \sqrt[3]{1125}$

$= 2 \times \sqrt[3]{3^5} + 3\sqrt[3]{9} - \sqrt[3]{5^3 \times 9}$

$= 9\sqrt[3]{9} - 5\sqrt[3]{9} = 4\sqrt[3]{9}$

19. (a):

Population after 3 years—

$= 10000 \times \left(1 + \frac{10}{100}\right)\left(1 - \frac{20}{100}\right)\left(1 + \frac{30}{100}\right)$

$= 11440$

20. (a):

Quantity of Cu $= 200 \times \frac{2}{5} = 80$ gm

& Quantity of Zn $= 200 \times \frac{3}{5} = 120$ gm

$\frac{80+x}{120} = \frac{3}{2} \Rightarrow x = 100$ gm

21. (b):

Let total no. of workers $= x$

Total salary $= 95x$ ....(i)

Total salary $= 15 \times 525 + (x - 15) \times 85$ ....(ii)

From (i) & (ii) —

$x \times 95 = 15 \times 525 + (x - 15) \times 85$

$x = 660$

22. (d): Let the number of red candies be 3x and the number of green candies be 4x. We know that 4x = 42,

So, x = 10.5. Therefore, the number of red candies is 3x = 3(10.5) = 31.5, which we can round up to 32. Hence, there are 32 red candies.

23. (c): A loss of 5% means that the trader sold the wheat for 95% of the cost price. Therefore, the selling price is (95/100) × Rs.200 = Rs.190.

Hence, the selling price of the wheat is Rs.190.

24. (b):

$\dfrac{a^2 - ab + b^2}{a^3 + b^3} \Rightarrow \dfrac{1}{a+b} = \dfrac{1}{597+3}$

$= \dfrac{1}{600}$

25. (c): Using BODMAS,

$5 - 2(3x - 2) + 3(2x + 1 \div 4x)$

$= 5 - 6x + 4 + 6x+3 \div 4x$

$9 + 3/4x$

**26. (c):**

$\frac{2}{3}A = \frac{50}{100}B = \frac{8}{10}C$

$\Rightarrow \frac{2}{3}A = \frac{1}{2}B = \frac{4}{5}C$

$\Rightarrow \frac{2}{3}A = \frac{1}{2}B \quad \& \quad \frac{1}{2} \times B = \frac{4}{5}C$

$\Rightarrow \frac{A}{B} = \frac{3}{4} \quad \Rightarrow \frac{B}{C} = \frac{8}{5}$

$$\begin{array}{ccccc}
 & A & : & B & : & C \\
\therefore \quad A : B & 3 & : & 4 & : & 4 \\
B : C & 8 & : & 8 & : & 5 \\
\hline
 & 24 & : & 32 & : & 20 \\
\Rightarrow & 6 & : & 8 & : & 5 \\
\end{array}$$

27. (a):
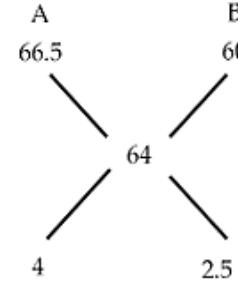
$\Rightarrow \quad 8 \quad : \quad 5$

28. (b): $(20 + 20 \div 5 - 2) + 1$

$= 23$

29. (b):

$\dfrac{x \times 8 \times 5}{100} = \dfrac{y \times 75 \times 6}{100 \times 10}$

$\dfrac{x}{y} = \dfrac{75 \times 6}{8 \times 50} = \dfrac{9}{8}$

$\Rightarrow x : y = 9 : 8$

30. (d):

SP at 15% loss, $= 1200 \times \frac{85}{100}$

$= Rs\ 1020$

Now,

SP after 5% reduction $= \frac{1020 \times 95}{100}$

$= Rs\ 969$

31. (b): The loss incurred by the company is Rs.60,000 – Rs.45,000 = Rs15,000.

The loss percentage= (15,000/60,000) x 100% = 25%.

32. (a): Let the number of boys be 4x and the number of girls be 3x.

Then, we have 3x = 28, so x = 9.33.

Since the number of boys must be a whole number, we round up to get 4x = 4 x 9.33 ≈ 37. Therefore, there are approximately 37 boys in the class.

33. (a): speed of the train for the forward journey: = 600/8 = 75 km/h Similarly, the speed of the train for the return journey is: Speed = 600/10 = 60 km/h Total time taken for the entire journey is 8 + 10 = 18 hours Total distance covered is 600 + 600 = 1200 km

Average speed = Total distance/Total time = 1200/18 = 66.67 km/h (rounded to two decimal places)

or

Sol: Total distance = 600 + 600 = 1200 km, total time = 8 + 10 = 18 hours. Average speed = total distance/total time = 1200/18 = 66.67 km/h (rounded to two decimal places).

34. (b): time taken by the car to travel from city A to city B= Distance/Speed = 240/60 = 4 hours Similarly, the time taken by the car to travel from city B to city A is: Time = 240/40 = 6 hours.

Total time taken for the entire journey is 4 + 6 = 10 hours

Total distance covered is 240 + 240 = 480 km

Average speed = Total distance/Total time = 480/10 = 48 km/h

OR

Total distance = 240 + 240 = 480 km, total time = 240/60 + 240/40 = 4 + 6 = 10 hours. Average speed = total distance/total time = 480/10 = 48 km/h.

35. (b):

Total runs of first 20 innings = 20 × 42 = 840
Total runs of 21 innings 840 + 84 = 924
Average of 21 innings = $\frac{924}{21}$ = 44

36. (a):

Let the present ages of Hari and Mohan be respectively x yrs and y yrs
From the question, x + y = 2(x -y)
Or x = 3y   ...(i)
4 yrs before the ages of Hair and Mohan was x- 4 yrs and y – 4 year then
From the question (x – 4 + y – 4) = $\frac{3}{2}$ [x-4-y+4]
Or, 2x + 2y – 16 = 3x – 3y
Or, 5y – x = 16   ...(ii)
Solving equation (i) and (ii)
x = 24 and y = 8
Hari's age after 12 yrs = 24 + 12 = 36 yr
Mohan's age after 12 yrs = 8 + 12 = 20 yrs
the ratio of their ages = 36 : 20 = 9 : 5

37. (b):

Let $12\frac{1}{2}$% of x liters = 25 l
So, $12\frac{1}{2}$% of 1000x ml = 25 l
or, $1000x \times \frac{25}{2} \times \frac{1}{100} = 25$
x= 0.2 ℓ

38. (b):

Let speed of the motorboat in still water x km/h
The speed of the motorboat along the stream = (x + 5) km/h
Speed of the motorboat against the stream = (x – 5) km/h
$\therefore \frac{10}{x+5} + \frac{10}{x-5} = \frac{50}{60}$ hrs
x = 25 km/h

39. (d):

All question attempted Correctly   All Question Attempted Wrong
30×3   −2×30
        40
100   50
2   1
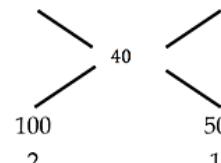
⇒ Total no. of question = 3 → 30
Correct questions ⇒ 2 → 20
Incorrect questions ⇒ 1 → 10

40. (d):

A	:	B	:	C
1	:	3	:	4
100	:	300	:	400
+10%		+15%		+20%
110	:	345	:	480
22	:	69	:	96

41. (a):

Relative speed = 90-18 = 72 kmph
Or, 20 m/s
Required time = $\frac{240}{20} = 12$ sec

42. (b):

$\frac{1}{4}A = \frac{1}{2}B$
A : B = 2 : 1
So,
3 units → Rs 1500
2 units → $\frac{2}{3} \times 1500 = $ Rs 1000

43. (c): Required value is 4 : 19 : 36

44. (d):

Cost price = 2970 × $\frac{100}{110}$
= Rs 2700

45. (a):

$$10\% = \frac{1}{10}$$
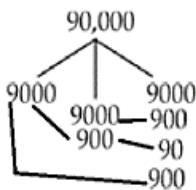
Gain = CI – SI
= 900 + 900 + 900 + 90
= Rs 2790

46. (c): Units sold SUV brand E (100) were the lowest.

47. (a): Required ratio = 200 : 160 = 5 : 4

48. (d):

Required percentage $= \frac{320-300}{320} \times 100 = \frac{20}{320} \times 100$

$= \frac{25}{4} = 6.25\%$

49. (c): Total number of SUU's that were sold
= 160 + 300 + 380 + 320 + 100 + 140 + 200
= 1600
Total sales (in lakhs) of all the SUV sold by the dealer
= 1600 × 8 = 12800 lakhs

50. (a):

51. (a): 35 – 25 = 10

52. (d):

$$\frac{95-25}{25} \times 100\%$$
$$= \frac{70}{25} \times 100$$
$$= 280\%$$

53. (c): 30000 × 80 = Rs. 2400000 million
⇒ Rs. 2400 billion

54. (a): B has the second highest population.

55. (b):

$$\frac{Country\ A}{country\ G} = \frac{500}{650} = \frac{10}{13}$$

56. (b):

$$\frac{1000-500}{500} \times 100 = 100\%$$

57. (a): D spends on entire population
= 120 × 50
= 6000 $ millions

58. (a): Party C (300) had the second highest number of votes.

59. (c): Req. ratio = 240: 140 = 12:7

60. (b):

Required percentage $= \frac{300-140}{300} \times 100 = \frac{160}{300} \times 100$
= 53.33%

61. (c):

30% of voters of party C $= 300 \times \frac{30}{100} = 90$
Req. percentage $= \frac{90}{180} \times 100 = 50\%$

62. (d): Lowest television brand = 170 = A
Second lowest television brand = 190 = F

63. (b):

Required ratio = 340 : 170
= 2: 1

64. (b):

Required percentage $= \frac{300-280}{300} \times 100 = \frac{20}{300} \times 100$
= 6.67%

65. (a):

Total sale = 170 + 280 + 340 +380+ 340 + 190 + 300
Total tax to be passed $= \frac{2,00,0000 \times 12}{100} = 240000$

66. (c): In 2014 & 2013, number of deaths lesser than that of the previous year.

67. (d): Required difference = 8000 – 1500 = 6500

68. (c):

Required percentage $= \frac{9000-6000}{9000} \times 100 = 33.33\%$

69. (a): Total no. of deaths in 2015 = 7500
Amount of insurance that was paid = 10 × 7500 lakhs = 750 crore

70. (a): Unit sold of motorcycle brand B was highest.
Unit sold of motorcycle brand C was 2ⁿᵈ highest.

71. (a):

required ratio = 180 : 280 = 9: 14

72. (d):

Required percentage $= \frac{200-140}{200} \times 100 = 30\%$

73. (d): Sum of units sold of motorcycle brand = 180 + 340 + 280 + 140 + 200 + 120 + 240 = 1500 Sales (in Rs 1 lakh) of all the motorcycles sold by the dealer = 1500 × (1 lakh) = 1500 lakhs

74. (d):

Total number of audiences in second show = 60 + 45 + 40 = 145
Total number of audiences in third show = 65 + 70 + 75 = 210
So, required % $= \frac{(210-145)}{145} \times 100 = \frac{65}{145} \times 100 = 44.82\%$

**75. (c):** Total revenue from screen 1 = (50 + 60 + 65) ×250=175×250=Rs.43750
Total revenue from screen 2 = (30 + 45 + 70) ×400=145×400=Rs.58000
Total revenue from screen 3 = (60 + 40 + 75) ×200=175×200=Rs.35000
So, screen 2 has the maximum total revenue.

76. (a): +4, +2, +5 pattern

77. (b): (+1, +1, +1, +1) pattern with second alphabet in upper case.

78. (a): Difference of 10, 15, 20 and 25

79. (c):
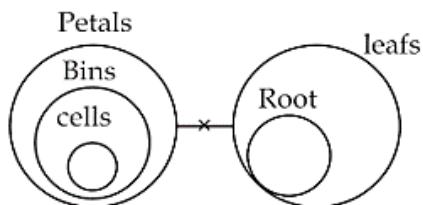
80. (d):
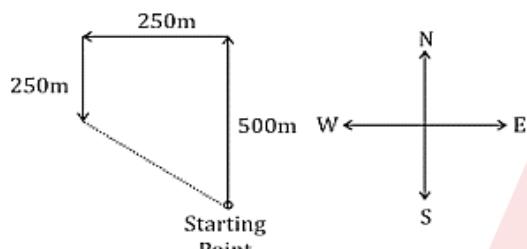
She is in North-west from her starting point.

81. (b):

$3^3 \to 27$
$4^3 + 1 \to 65$
Similarly, $4^3 \to 64$
$5^3 + 1 \to 126$

82. (a): uvwv,
uvwwvu/uvwwvu/uvw

83. (d):

84. (b):

85. (d):

86. (d):

87. (c):
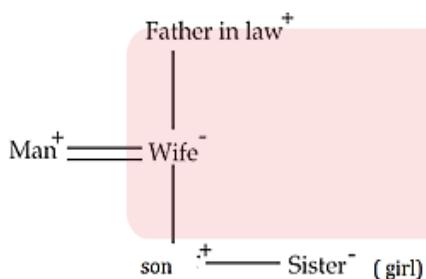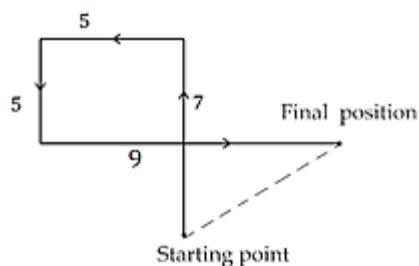
Arun is 5th from back

88. (d):

89. (b): Option (b) does not contain antonyms

90. (d): Acute, right, and obtuse are geometric terms describing particular angles. Parallel refers to two lines that never intersect.

91. (d):

92. (a): 1, 2, 3 are figures composed of two straight lines.
4, 5, 6 are figures composed of three straight lines.
7, 8, 9 are figures composed of four straight lines.

93. (d):

94. (a):

95. (d): Neither I nor II follows

96. (d):
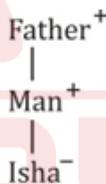
97. (c): $R \to 3$, $O \to 4$, $T \to 9$, $E \to 7$

98. (b): $(4 \times 3) + 5 = 17$
$(8 \times 2) + 4 = 20$
Similarly, $(5 \times 3) + 5 = 20$

99. (a):

100. (c):

101. (d):

102. (d): 2nd no. is multiple of 1st no. except 14 : 94.

103. (a): All have only vowels except ILOU.

104. (a):
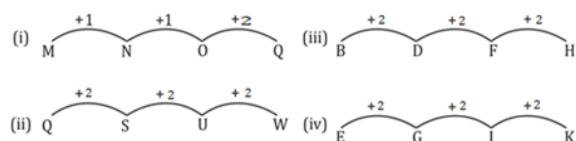

105. (a): Court - justice is the odd pair.

**106. (d):** + 4 pattern

107. (b): ABABAbab

108. (b):

AB = 20 + 40
= 60 km
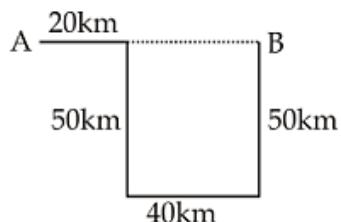
109. (a):

Only conclusions I follows
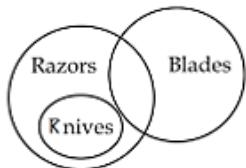
110. (d): It is a pair of opposite letters
PMN → KNM

111. (a): Rhombus is a 2D figure while rest three are 3D figures.

112. (c): World Post Day is celebrated each year on October 9th to commemorate the creation of the Universal Postal Union (UPU) in 1874.

113. (d): The theme for World Post Day 2023, "Together for Trust: Collaborating for a safe and connected future," underscores the importance of governments and postal services working together to develop a digital single postal territory.

114. (d): Indian Foreign Service (IFS) Day is an annual celebration held on October 9th. This special day honors the establishment of the Indian Foreign Service, a critical institution for India's diplomatic, consular, and commercial representation worldwide.

115. (c): The nation has amassed a medal tally of 107 medals including 28 gold, 38 silver, and 41 bronze at Hangzhou. This is also only the second time India has won more than 100 medals in any of the three major Games - The Olympics, Commonwealth Games, and Asian Games.

116. (a): Australia opener David Warner became the fastest batter to complete 1000 runs in ODI World Cup during his side's match against India in Chennai. Warner reached the milestone in 19 innings to break Sachin Tendulkar and AB de Villiers' joint record of 20 innings.

117. (b): Renowned hockey player P. R. Sreejesh had the honor of being India's flag bearer during the closing ceremony, representing his country with pride on the international stage.

118. (d): The Indian government, in collaboration with the Indian Drugs Manufacturers' Association (IDMA), is set to observe the first-ever National Current Good Manufacturing Practice Day (cGMP Day) on 10th October.

119. (b): The Indian Air Force (IAF) is gearing up to celebrate its 91st Air Force day on 8 October 2023.

120. (c): The celebration of Air Force day marks the participation of total number of 120 aircraft in the air display in Prayagraj.

121. (c): After 12 years of planning and construction, the largest Hindu temple outside India in the modern era is ready to open to the public in Robbinsville, New Jersey

122. (c): The Nobel Prize in Literature 2023 is awarded to the Norwegian author Jon Fosse, "for his innovative plays and prose which give voice to the unsayable." His immense oeuvre written in Norwegian Nynorsk and spanning a variety of genres consists of a wealth of plays, novels, poetry collections, essays, children's books and translations.

123. (b): European Union lawmakers approved new standards for companies issuing "green" bonds to help investors pick sustainable companies and avoid greenwashing or misleading climate-friendly claims. The European Parliament voted in favour of the new voluntary standard for the use of a "European Green Bond" label, calling it the first of its kind in the world.

124. (d): Jailed Iranian women rights' activist Narges Mohammadi has been conferred with the 2023 Nobel Peace Prize, the Norwegian Nobel Committee announced on October 6.

125. (a): In a historic moment at the Gongshu Canal Sports Park Stadium in Hangzhou, the Indian men's hockey team secured a remarkable victory over Japan, winning the gold medal and earning a coveted spot at the Paris 2024 Olympics.

126. (b): In a heart-pounding final showdown at the Xiaoshan Guali Sports Centre in Hangzhou, the Indian women's kabaddi team emerged victorious against a determined Chinese Taipei, securing the gold medal in the Asian Games 2023.

127. (d): World Cotton Day, observed on October 7 each year, emphasises cotton's importance in generating jobs and supporting economies, especially in less developed countries.

128. (c): The theme for World Cotton Day 2023, 'Making cotton fair and sustainable for all, from farm to fashion,' is championed by the United Nations Industrial Development Organization (UNIDO).

129. (a): Dr. Joyeeta Gupta, an Indian-origin professor at the University of Amsterdam, has been awarded the prestigious Dutch Spinoza Prize for her groundbreaking work in the field of climate change.

130. (b): Second generation computers designed in 1960s were based on transistors. These computers were more reliable and faster than first generation computers that were based on vacuum tubes.

131. (d): BlueTrack mouse is a type of mouse that is based on the Blue Track Technology and can work on any surface from granite countertop to the carpet.

132. (c): A flowchart is a visual representation of the sequence of steps and decisions needed to perform a process. Each step in the sequence is noted within a diagram shape. Steps are linked by connecting lines and directional arrows.

133. (b): Except for peripherals, all other options are examples of intangible instructions given to a computer to perform a specific type of task in on orderly manner.

134. (a): A motherboard is that part of a CPU which coordinates all the activities of a computer system. Various types of hardware are attached on the motherboard to facilitate these activities.

135. (a): a syntax error is an error in the syntax of a sequence of characters or tokens that is intended to be written in a particular programming language. For compiled languages, syntax errors are detected at compile-time. A program will not compile until all syntax errors are corrected.

136. (d): In cryptography, data are sent in such a way that they look completely different from the original data. Thus, cryptography ensures secure transfer of data over an unsecured network.

137. (d): Input device can read data and convert them to a form that a computer can use.

138. (b): A network server is a computer designed to act as central repository and help in providing various resources like hardware access, disk space, printer access, etc,. to other computers in the network.

139. (a): The peer-to-peer network is a type of network where each computer is connected to the other to share resources without requiring a separate server system. In this network, computers can be connected via an ad-hoc connection.

140. (d): Personal computers are connected together through a LAN; this arrangement of computers forms a network.

141. (d): Personal Computers (PCs) are designed for a single user. They come with built-in memory and a small microprocessor.

142. (c): LAN connection allows computers to share information and/or share peripheral equipment.

143. (d): UNIVAC is the first general purpose electronic computer.

144. (b): Virtual Memory is the memory that appears to exist as main storage although most of it is supported by data held in secondary storage, transfer between the two being made automatically as required.

145. (a): An address bus is a computer bus architecture used to transfer data between devices that are identified by the hardware address of the physical memory (the physical address), which is stored in the form of binary numbers to enable the data bus to access memory storage.

146. (c): Spyware usually finds its way onto your computer without your knowledge or permission. It runs in the background, collecting information or monitoring your activities.

147. (b): A patch is a piece of software designed to update a computer program or its supporting data to fix or improve it.

148. (c): A mouse is a handheld device that allows you to control your computer without typing the instructions from the keyboard. By using a mouse, you can select icons, open programs, and select, commands, present in a program by moving the pointer.

149. (a): Outlook is an e-mail service.

150. (d): VoIP (Voice Over Internet Protocol) is the transmission of voice and multimedia content over Internet Protocol (IP) networks. VoIP is enabled by a group of technologies and methodologies used to deliver voice communications over the internet, enterprise local area networks or wide area networks.