A

GOVERNMENT OF MIZORAM
FOOD, CIVIL SUPPLIES & CONSUMER AFFAIRS DEPARTMENT

EXAMINATION FOR RECRUITMENT TO THE POST OF STORE KEEPER 2022

PAPER II

SIMPLE ARITHMETIC

FULL MARKS : 100
TIME ALLOWED : 3 HOURS

Put a tick "√" mark against the correct answer in the space given in each question

All questions carry 2 marks

Signature of Invigilator _____

CODE NO.

MARKS TABULATION

NO. OF CORRECT ANSWERS	MARKS CARRIED BY EACH QUESTION	MARKS OBTAINED
	2	

Signature of Examiner _____
(Chhanna endiktu signature)

1. Which one of the following is not a prime number?
A) 31 ( )
B) 71 ( )
C) 91 ( )
D) None of these ( )

2. Find the highest common factor of 36 and 84.
A) 12 ( )
B) 4 ( )
C) 6 ( )
D) 8 ( )

3. The present age of Mawii's mother is three times the present age of Mawii. After 5 years their ages will add 66 years. Find the present age of Mawii's mother.
A) 42 years ( )
B) 14 years ( )
C) 38 years ( )
D) None of these ( )

4. The sum of the four consecutive even numbers is 284. What would be the smallest number?
A) 58 ( )
B) 72 ( )
C) 68 ( )
D) 64 ( )

5. Simplify $2\frac{1}{5}\left(\frac{5}{11} + 1\frac{6}{11}\right)$
A) $4\frac{2}{5}$ ( )

B) -3 ( )
C) $+4$ ( )

D) $4\frac{1}{5}$ ( )

6. Simplify
$(-3) \{(-6) + (20)\} \times (-3) - (7-9) (-2)$
A) 33 ( )
B) 122 ( )
C) 45 ( )
D) None of these ( )

7. Simplify
$\left(9.6 \times 3.6 \div 7.2 + 10.8 \, of \, \frac{1}{18} - \frac{1}{10}\right)$
A) 2.7 ( )
B) 5.3 ( )
C) 123 ( )
D) 7.3 ( )

8. Find $(16)^{\frac{5}{2}} \times (25)^{\frac{-1}{2}}$
A) $\frac{2^{10}}{5}$ ( )

B) $\frac{4^{10}}{5}$ ( )

C) -6 ( )
D) -3 ( )

9. What is the smallest four-digit number which is a perfect square?
A) 1024 ( )
B) 1156 ( )
C) 1000 ( )
D) 1089 ( )

10. Find the smallest number by which 180 must be multiplied so that it becomes a perfect square.
A) 3 ( )
B) 7 ( )
C) 5 ( )
D) 1 ( )

11. Find the smallest number by which 192 must be divided to get a perfect cube.
A) 6 ( )
B) 8 ( )
C) 3 ( )
D) None of these ( )

12. Find $\sqrt[3]{17.576} \times 15$
A) 39 ( )
B) 27 ( )
C) 34 ( )
D) 67 ( )

13. The average age of boys in a class is 16 years and that of the girls is 15 years. The average age for the whole class is ___
    A) 15 years ( )
    B) 16 years ( )
    C) 15.5 years ( )
    D) cannot be computed ( )

14. What will be the average of numbers from 1 to 51?
    A) 25.5 ( )
    B) 26 ( )
    C) 26.5 ( )
    D) None of these ( )

15. The average of five numbers is 30. If one number is excluded, the average becomes 25. The excluded number is _____
    A) 24 ( )
    B) 27 ( )
    C) 50 ( )
    D) 55 ( )

16. Dengzuala bought 5 pens at ₹ 25 each, 10 notebooks at ₹ 50 each and 15 plastic bags at ₹ 35 each. Find the average price of all the articles.
    A) ₹ 30 ( )
    B) ₹ 45 ( )
    C) ₹ 38.33 ( )
    D) None of these ( )

17. The marked price of an article was ₹ 9600. It was sold for ₹ 8640. Find the rate of discount offered to a customer.
    A) 10% ( )
    B) 12% ( )
    C) 8% ( )
    D) 20% ( )

18. The marked price of a motorcycle is ₹ 1,10,000. A dealer allows a discount of 10% and get a profit of 10%. Find the cost price of the bicycle.
    A) ₹ 1,07,800 ( )
    B) ₹ 1,12,200 ( )
    C) ₹ 1,11,100 ( )
    D) ₹ 90,000 ( )

19. A shopkeeper marks an article at ₹ 600 and sells at a discount of 15%. He also gives a gift worth ₹ 30. If he still makes 20% profit, then the cost price is _____
    A) ₹ 220 ( )
    B) ₹ 400 ( )
    C) ₹ 320 ( )
    D) ₹ 420 ( )

20.   27 is 3.6% of _____
    A) 1333.33 ( )
    B) 75 ( )
    C) 750 ( )
    D) 1875 ( )

21. A Store Keeper's salary has increased from ₹ 36000 to ₹ 40320. What is the percentage increase in his salary?
    A) 15% ( )
    B) 12% ( )
    C) 6% ( )
    D) 10.71% ( )

22. In a written examination for recruitment to the post of Store Keeper, Liana scored 10% more than Mawia and Mawia scored 5% more than Thangi. If Thangi scored 300 marks out of 400, then Liana's marks are _____
    A) 280 ( )
    B) 350 ( )
    C) 360 ( )
    D) 380 ( )

23. A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks are _____
    A) 800 ( )
    B) 300 ( )
    C) 500 ( )
    D) 600 ( )

24. By selling a jacket for ₹ 729, Mawitei lost 10%. What was the cost price?
    A) ₹ 801.9 ( )
    B) ₹ 656.1 ( )
    C) ₹ 667 ( )
    D) ₹ 810 ( )

25. By selling 50 oranges, a seller gains the selling price of 10 oranges. Find his gain percent.
    A) 25%   ( )
    B) 15%   ( )
    C) 30%   ( )
    D) 12%   ( )

26. A rice trader buys 22 quintals of rice for ₹ 3344. 24% rice is lost in transportation. At what rate should he sell to earn 30%?
    A) ₹ 88.86 per quintal   ( )
    B) ₹ 360 per quintal   ( )
    C) ₹ 260 per quintal   ( )
    D) None of these   ( )

27. The ratio of male and female candidates appearing for an examination is 5:4. If there are 1540 male candidates, how many candidates are there in all?
    A) 1320   ( )
    B) 2772   ( )
    C) 1880   ( )
    D) None of these   ( )

28. A car travelled a distance of 270 km in 6 hours. Find the distance travelled by the car during 4 hours and 20 minutes, assuming that it travelled at the same speed.
    A) 195 km   ( )
    B) 189 km   ( )
    C) 385.7 km   ( )
    D) None of these   ( )

29. If 4a =5b and 7b = 9c, then a : b : c is equal to
    A) 42 : 35 : 27   ( )
    B) 44 : 33 : 28   ( )
    C) 45 : 36 : 28   ( )
    D) None of these   ( )

30. Sangkhuma invested ₹ 76000 in a business. After few months Zaneiha joined him and invests ₹ 57000. At the end of year both of them share the profits at the ratio of 2:1. After how many months Zaneiha joined Sangkhuma?
    A) 4 months   ( )
    B) 6 months   ( )
    C) 8 months   ( )
    D) cannot be computed   ( )

31. Singkhumi starts a business with ₹ 4000 and Zachhiara joins the business 4 months later with an investment of ₹ 5000. After one year, they earn a profit of ₹ 22000. Find A's share.
    A) ₹ 11500   ( )
    B) ₹ 11000   ( )
    C) ₹ 14000   ( )
    D) ₹ 12000   ( )

32. X and Y invested in a business. They earned some profit which they divided in the ratio of 2 : 3. If X invested ₹ 40,000, the amount invested by Y is
    A) ₹ 55000   ( )
    B) ₹ 48000   ( )
    C) ₹ 60000   ( )
    D) None of these   ( )

33. Lalchaka and Thuamchaka can do a piece of work in 12 days; Thuamchaka alone can finish it in 30 days. In how many days can Lalchaka alone finish the work?
    A) 20 days   ( )
    B) 18 days   ( )
    C) 24 days   ( )
    D) None of these   ( )

34. Enga can do a piece of work in 25 days and Thana can finish it in 20 days. They work together for 5 days and then Enga goes away. In how many days will Thana finish the remaining work?
    A) 22 days   ( )
    B) 11 days   ( )
    C) 7 days   ( )
    D) 9 days   ( )

35. Amar, Akbar and Anthony can do a piece of work individually in 8, 12 and 15 days respectively. Amar and Akbar start working but Amar quits after working for 2 days. After this, Anthony joins Akbar till completion of the work. In how many days will the work be completed?
    A) $5\frac{8}{9}$ ( )

    B) $5\frac{7}{9}$ ( )

    C) $7\frac{6}{9}$ ( )

    D) None of these   ( )

36. A car is running at 42 km/hr. How long will it take to cover 350 metres?
    A) 1 minute   ( )
    B) 50 seconds   ( )
    C) 30 seconds   ( )
    D) None of these   ( )

37. A person covers a distance of 12 km while walking at a speed of 4 km/hr. How much distance will he cover in the same time if he walks at a speed of 6 km/hr.?
    A) 16 kms   ( )
    B) 12 kms   ( )
    C) 24 kms   ( )
    D) 18 kms   ( )

38. Aihniara and Lalruanga walk in opposite directions at the rate of 3 and 2 km/hr respectively. How far will they be from each other after 2 hour?
    A) 10 kms   ( )
    B) 8 kms   ( )
    C) 12 kms   ( )
    D) None of these   ( )

39. Sumparlawmi borrowed ₹ 7500 from Buaibuti and after one year returned ₹ 8250 to Buaibuti. Calculate the rate of interest.
    A) 5%   ( )
    B) 10%   ( )
    C) 20%   ( )
    D) 25%   ( )

40. Find the compound interest on ₹ 8000 for 9 months at 20% per annum, interest being compounded quarterly.
    A) ₹ 860   ( )
    B) ₹ 936   ( )
    C) ₹ 1261   ( )
    D) None of these   ( )

41. Find the difference between compound interest and simple interest on ₹ 12500 at 8% per annum for 2 years.
    A) ₹ 80   ( )
    B) ₹ 120   ( )
    C) ₹ 320   ( )
    D) ₹ 210   ( )

42. Find the area of a square whose diagonal is 8 metre.
    A) 64 m^2 ( )
    B) 32 m^2 ( )
    C) 16 m^2 ( )
    D) None of these   ( )

43. Find the area of a circular park whose circumference is 264 metres.
    A) 6466 m^2 ( )
    B) 3322 m^2 ( )
    C) 5544 m^2 ( )
    D) None of these   ( )

44. The floor of a rectangular hall has a perimeter 250 m. If the cost of painting the four walls at the rate of ₹ 10 per sq. m is ₹ 15000, then find the height of the hall.
    A) 8 m   ( )
    B) 4 m   ( )
    C) 9 m   ( )
    D) 6 m   ( )

45. In how many different ways 5 girls can be seated in a row?
    A) 120   ( )
    B) 25   ( )
    C) 125   ( )
    D) None of these   ( )

46. In how many different ways, can the letters INHALE be arranged?
    A) 120   ( )
    B) 360   ( )
    C) 720   ( )
    D) None of these   ( )

Directions (Q. Nos. 47-50) Study the table and answer question No. 47-50

Expenditures of Department of FCS&CA (in Lakh Rupees) per annum over the given years.

Year	Item of Expenditure				
	Salary	Rice	Office Expenses	Travel Expenses	Medical Expenses
2017-18	305	1002	15.9	4.78	8.9
2018-19	314	1120	17.8	5.6	5.6
2019-20	322	1540	18.54	7.2	7.4
2020-21	336	1670	22.6	5.8	8.8
2021-22	420	1866	23.75	9.2	9.8

47. What is the average amount of Office Expense per year during this period?
        A) ₹ 17.56 lakh   ( )
        B) ₹ 19.718 lakh   ( )
        C) ₹ 18.86 lakh   ( )
        D) None of these   ( )

48. The total amount of Salary paid by the Department during the given period is approximately what percent of the total amount of expenditure on all other items?
        A) 23%   ( )
        B) 18 %   ( )
        C) 34%   ( )
        D) 21%   ( )

49. The ratio between the total expenditure on Salary for all the years and the total expenditure on Rice for all the years respectively is approximately _____.
        A) 1 : 5   ( )
        B) 2 : 3   ( )
        C) 3 : 4   ( )
        D) 1 : 4   ( )

50. The total expenditure of the Department for all the items during the year 2021-22 is higher than that of 2020-21 by _____
        A) ₹ 285.55 lakh   ( )
        B) ₹ 275.55 lakh   ( )
        C) ₹ 245.77 lakh   ( )
        D) None of these   ( )