

**CSSR & SRRM DEGREE & PG COLLEGE**

(AUTONOMOUS)

UG (CBCS) REGULAR EXAMINATIONS, DECEMBER-2024

BA/BBA/B.Com/BSc Honours, SEMESTER-I

**SKILL COURSE****Analytical Skills**

(w.e.f. 2024-25 Admitted Batch)

Time: 2 hours

Max Marks: 50

**A**

(No additional sheet will be supplied)

**Answer any 50 questions. Each question carries 1 mark.****50× 1 M= 50 M****Section A**

- 1 Simplify  $4368 + 2158 - 596 - ? = 3421 + 1262$
- a) 1247                      b) 1327                      c) 1237                      d) 1427
- 2  $(0.2 \times 0.2 + 0.01)(0.1 \times 0.1 + 0.02)^{-1}$  is equal to
- a)  $\frac{5}{3}$                               b)  $\frac{9}{5}$                               c)  $\frac{41}{4}$                               d)  $\frac{41}{2}$
- 3 Which of the following fractions is the smallest?
- a)  $\frac{13}{16}$                               b)  $\frac{15}{19}$                               c)  $\frac{17}{21}$                               d)  $\frac{7}{8}$
- 4 Express  $\frac{1999}{2111}$  in decimal
- a) 0.893                              b) 0.904                              c) 0.947                              d) 0.986
- 5 Which of the following numbers is exactly divisible by 24?
- a) 35718                              b) 63810                              c) 537804                              d) 3125736
- 6 If  $(n-1)$  is an odd number, what are the two other odd numbers nearest to it?
- a)  $n, n - 1$                               b)  $n, n - 2$                               c)  $n - 3, n + 1$                               d)  $n - 3, n + 5$
- 7 Find the H.C.F. of 108, 288, and 360?
- a) 36                                      b) 16                                      c) 26                                      d) 6
- 8 Find the L.C.M. of  $\frac{3}{4}, \frac{6}{7}, \frac{9}{8}$  is
- a) 3                                              b) 6                                              c) 9                                              d) 18
9. The sum of two numbers is 216 and their H.C. F is 27. The numbers are
- a) 27,189                              b) 81,189                              c) 108,108                              d) 154,162
10. The L.C.M. of two numbers is 495 and their H.C.F. is 5. If the sum of the numbers is 100, then their difference is
- a) 10                                              b) 46                                              c) 70                                              d) 90

11. A number is as much greater than 21 as is less than 71. The number is  
 a) 41                      b) 39                      c) 49                      d) 46
12. The next term of 17, 19, 23, 29, 31, – – –  
 a) 37                      b) 33                      c) 39                      d) 35
13. In FULFNHW is the code for CRICKET, then EULGH is the code for which word?  
 a) PRIDE                      b) BRIDE                      c) BLADE                      d) BLIND
14. If GIVE is coded as 5137 and BAT is coded as 924, how is GATE coded?  
 a) 2547                      b) 5427                      c) 5724                      d) 5247
15. A is the brother of B, C is the husband of B, C is the son of E. S is the wife of E, How is S related to B?  
 a) Mother -in -law                      b) Maternal aunt                      c) Niece                      d) Daughter-in-law

### Section B

16. Introducing a man, a woman said, “He is the only son of my mother’s mother”. How is the woman related to that man?  
 a) Mother                      b) Aunt                      c) Sister                      d) Niece
17. How many rotations will the hour hand of a clock complete in 72hours?  
 a) 3                      b) 6                      c) 9                      d) 12
18. In an accurate clock, in 2 hours 20 minutes, the minute hand will move over  
 a)  $140^{\circ}$                       b)  $320^{\circ}$                       c)  $520^{\circ}$                       d)  $840^{\circ}$
19. The calendar for the year 2020 will be the same for the years?  
 a) 2048                      b) 2078                      c) 2040                      d) 2096
20. Today is Wednesday. After 51 days it will be?  
 a) Friday                      b) Thursday                      c) Wednesday                      d) Tuesday
21. The average mark of 13 papers is 40. The average mark of the first 7 papers is 42 and for the last 7 papers is 35. What are the marks of the seventh paper  
 a) 16                      b) 20                      c) 19                      d) 21
22. Find the average of all the prime numbers between 1 to 50?  
 a) 24.9                      b) 34.9                      c) 52.9                      d) 21.9
23. Find the mean proportional between 0.02 and 0.32 is  
 a) 0.3                      b) 0.08                      c) 0.16                      d) 0.34
24. Two numbers in the ratio 3:4 such that the sum of the squares is equal to 100  
 a) 6, 8                      b) 6, 4                      c) 4, 8                      d) 2, 8

- 25 The ages of Nishi and Vinnie are in the ratio of 6:5 respectively. After 9 years the ratio will be 9:8. What will the difference in their ages now?  
 a) 3 years      b) 5 years      c) 7 years      d) 9 years
- 26 The ages of A and B are in the ratio 6:5 and the sum of their ages is 44 years. What will be the ratio of their ages after 8 years?  
 a) 7:6      b) 8:7      c) 9:8      d) 3:4
- 27 A man riding his bicycle covers 150 meters in 25 seconds. What is his speed in km per hour?  
 a) 20      b) 21.6      c) 23      d) 24
- 28 A car covers a distance of 432 km at the speed of 48 Km/hr. In how many hours will the car cover this distance?  
 a) 6 hours      b) 7 hours      c) 12 hours      d) 9 hours
- 29 Ravi can walk a certain distance in 40 days when he rests 9 hours a day. How long will he take to walk twice the distance, twice as fast and rest twice as long each day?  
 a) 40 days      b) 50 days      c) 80 days      d) 100 days
- 30 65% of 400 =?
- a) 260      b) 280      c) 230      d) 360

### Section C

- 31 10% of (15% of Rs 2000) is  
 a) Rs. 50      b) Rs. 40      c) Rs. 30      d) Rs. 90
- 32 If the cost price is 80% of the selling price, then what is the profit percent?  
 a) 40%      b) 30%      c) 20%      d) 25%
- 33 A vendor bought bananas at 6 for Rs 10 and sold them at 4 for Rs 6. Find his gain or loss percent.  
 a) 10% loss      b) 20% loss      c) 20% gain      d) 10% gain
- 34 Asha and Vikram started a business by investing Rs. 90000 and Rs 81000 respectively. Find the ratio of their profits at end of the year?  
 a) 10:9      b) 7:9      c) 3:9      d) 5:9
- 35 If A, B, and C started a business by investing Rs.8000, Rs10000, and Rs.12000 respectively. B gets 25% of the profit for supervising the management and the rest of the amount is divided in proportion to their capital. If the share of B is Rs. 4900 at the end of the year, what is the sum of the share of A and C Together  
 a) Rs. 4425      b) Rs. 4900      c) Rs. 4400      d) Rs. 6200
- 36 Find the simple interest on Rs. 68000 at 12 % per annum for 2 years.  
 a) Rs. 16000      b) Rs.16320      c) Rs. 16500      d) Rs. 16309
- 37 In how many years will a sum of money double itself at  $6\frac{1}{4}\%$  simple interest per annum?  
 a) 12 yrs      b) 14 yrs      c) 16 yrs      d) 18 yrs

- 38 The compound interest on Rs. 2800 for 24 months at 10% per annum is
- a) Rs. 324      b) Rs. 588      c) Rs. 343      d) Rs. 233
- 39 If the difference between the compound and simple interests on a certain sum of money for 3 years at 5 % per annum is Rs. 15.25. Find the sum.
- a) Rs. 500      b) Rs. 1000      c) Rs. 1500      d) Rs. 2000
- 40 Find the amount on Rs. 500 for 2 years at 4% compounded half yearly.
- a) Rs. 521.22      b) Rs.531.22      c) Rs.541.22      d) Rs.511.22
- 41 If  $5x + 3 = 18$  then  $x=?$
- a) 1      b) 2      c) 3      d) 4
- 42 If  $a:b = 7:9$ ,  $b:c = 15:7$ . Find  $a:c$ .
- a) 3:5      b) 5:3      c) 2:7      d) 7:5
- 43  $\frac{3}{5}$  of  $\frac{4}{7}$  of 175 =?
- a) 50      b) 60      c) 30      d) 40
- 44 Which is the lowest of the following ratios?
- a) 7:15      b) 15:23      c) 17:25      d) 21:39
- 45 Express 90 kmph in mps.
- a) 20 mps      b) 15 mps      c) 35 mps      d) 25 mps

### Section D

**Study the following table and answer the questions.**

The number of candidates applied, qualified, and selected in an examination from two states P and Q over the years 2021 to 2025.

Year	State P			State Q		
	Applied	Qualified	Selected	Applied	Qualified	Selected
2021	6450	850	48	8200	680	85
2022	8000	640	82	6500	525	65
2023	4800	500	80	6800	600	70
2024	9000	800	80	5700	400	90
2025	9500	850	90	7800	720	80

- 46 In the year 2022, what is the difference between the candidates who applied and the candidates who qualified in State P?
- a) 7360      b) 8640      c) 5975      d) 7025

- 47 In the year 2021, the percentage of candidates selected over the candidates qualified in state Q is  
 a) 9.5%                      b) 11.5%                      c) 12.5%                      d) 10.5%
- 48 What is the average of candidates who qualified from state P during the given year years?  
 a) 728                      b) 3640                      c) 910                      d) 1820
- 49 What is the ratio between the number of candidates qualified and selected in state P the year 2024?  
 a) 1:10                      b) 5:2                      c) 2:1                      d) 10:1
- 50 In the year 2023, the percentage of candidates applied over the candidates selected in state P is  
 a) 12%                      b) 15%                      c) 10%                      d) 30%

In a College the periodical examination are held every second month. In a session during April 2001 – March 2002, a student of Class XII appeared for each of the periodical exams. The aggregate marks obtained by him in each periodical exam are represented in the line-graph given below.

Marks Obtained by student in Six Periodical Held in Every Two Months during the Year in the Session 2001 - 2002.

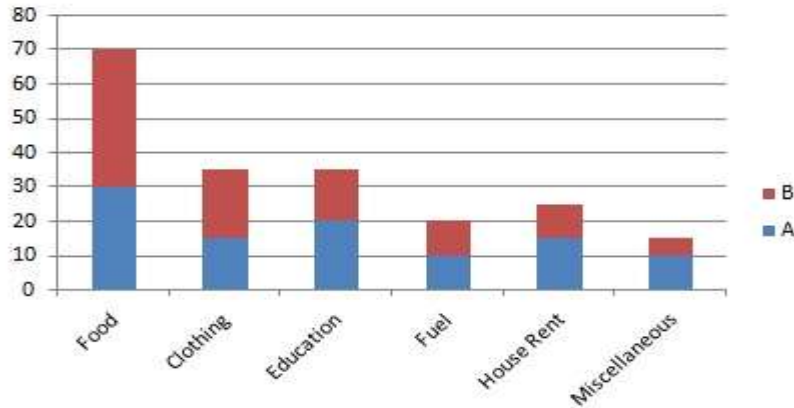
Maximum Total Marks in each Periodical Exam = 500



- 51 What percentage of the total marks obtained in December 2001 was achieved in February 2002?  
 a) 100.25%                      b) 101.25%                      c) 70.25%                      d) 70.25%
- 52 What is the combined percentage of marks obtained by the student in the periodical exams of June 2001 and October 2001?  
 a) 25%                      b) 35%                      c) 75%                      d) 55%
- 53 What are the average marks obtained by the student in all the periodical exams during the last session?  
 a) 390.83                      b) 360.83                      c) 370.83                      d) 380.83
- 54 What is the total number of marks obtained in June-01 and Aug-01 is?  
 a) 735                      b) 725                      c) 755                      d) 805
- 55 What is the difference between the total marks obtained in Feb-02 and Dec-01?  
 a) 805                      b) 5                      c) 10                      d) 800

The bar diagram shows the monthly expenditure on food, clothing, education, fuel, house rent, and miscellaneous.

Monthly Expenditure (In Percentages) of two families



56 Which of the following fraction represents the spent education of the total expenditure in family A?

- a)  $\frac{1}{5}$       b)  $\frac{3}{10}$       c)  $\frac{7}{10}$       d)  $\frac{2}{5}$

57 For which category did both families spend the most?

- a) Education      b) Food      c) Clothing      d) Fuel

58 If Family A's total annual expenditure is Rs. 500,000, what is the amount spent on the difference between Food and Miscellaneous expenses during the year?

- a) Rs. 20000      b) Rs. 25000      c) Rs. 200000      d) Rs. 500

59 If Family B's total annual expenditure is Rs. 200,000, what is the amount spent on Fuel?

- a) Rs. 25020      b) Rs. 15240      c) Rs. 35000      d) Rs. 40000

60 What is the ratio of the amount spent on Fuel and education in family A?

- a) 1:2      b) 2:1      c) 10:1      d) 1:10



*Do Not Write Anything Here*