24 AB SC 101

UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR

AT THE END OF FIRST SEMESTER

SKILL COURSE ANALYTICAL SKILLS

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

Time: 2 Hours Maximum: 50 Marks 1. Simplify 2-[3-{6-(5-4-3)}] a) 1 b) 2 c) 7 d) 4 2. Simplify $666 \div 6 \div 3 = ?$ a) 37 b) 33 c) 30 d) 35 3. What is the value of p+(p-q)+q+(q-p)a) p+qb) p-q c) p d) q 4. $17\frac{1}{3} + 21\frac{1}{2} = 33\frac{1}{3}$ % of ? a) 116.5 b) 81.5 c) 277.5 d) 104.5 5. Simplify $\frac{3}{11}$ of 0.176 a) 0.48 b) 0.048 c) 480 d) 4800 $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2}}} = ?$ a) 1 b) 5/8 d) 10 c) 8/5 7. Which of the following options shows ascending order? b) $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}$ c) $\frac{5}{6}, \frac{4}{5}, \frac{3}{4}, \frac{3}{2}$ d) $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}, \frac{4}{5}$ a) $\frac{3}{4}, \frac{2}{3}, \frac{4}{6}, \frac{5}{6}$ 8. What is the value of p when 47P05 is divisible by 3? b) 2 a) 1 c) 3 d) 0 9. HCF of 12,36 and 48 is b) 6 c) 12 d) 10 a) 4 10. Find the lowest common multiple of 24,36, & 40 a) 120 b) 240 c) 360 d) 480

c) 220

d) 225

11. Find the next number in the series 20 10 10 15 30 75 ?

b) 210

a) 150

| 12. | 720 120 24 6 2 1 ? a) 0.5 | b) 1 | c) 1.5 | d) 2 |
|-----|--|------------------------------------|---|----------------------------|
| 13. | ACE : BDF : : MOQ : ? | b) NQP | c) NPR | d) BEF |
| 14. | DRIVEN is related to EIDR a) BEMEU | VN in the same way b) BGMUE | as BEGUM is related to c) EUBGM | d) UEBGM |
| 15. | If A is brother of B, B is sist a) Brother | ter of C, C is father of b) Nephew | of D, then D is related to A? | d) Can't say |
| 16. | Then how boy is related to | | e only daughter of the father of | f my maternal uncle"? |
| | a) Nephew | b) Brother | c) Uncle | d) So-in-law |
| 17. | Find the day of the week De a) Sunday | ec'14 1996? b) Saturday | c) Tuesday | d) Wednesday |
| 18. | If today is Monday then after a) Monday | er 23 days what will b) Tuesday | be the day of the week? c) Wednesday | d) Thursday |
| 19. | Find the angle between two a) 70° | hands of a clock at a b) 80° | right angle in a day? c) 90° | d) 100° |
| 20. | How many times are the ha a) 22 | nds of a clock at rigl b) 24 | ht angle in a day? c) 44 | d) 11 |
| 21. | Find the average of first 100 a) 50.5 | 0 natural numbers? b) 52.5 | c) 51.5 | d) 51 |
| 22. | The average of 4 consecutive a) 9000 | e even numbers is A b) 9800 | a, B, C, D is 99 what is the pro c) 9996 | oduct of B & D? d) 9600 |
| 23. | Find the fourth proportiona a) 10 | l of 4, 6, 8, ? b) 12 | c) 14 | d) 16 |
| 24. | 3:27::4:? a) 16 | b) 64 | c) 32 | d) 28 |
| 25. | 18:30::36:? a) 54 | b) 62 | c) 64 | d) 66 |
| 26. | The sum of ages of 5 childryoungest child? | en born of the interv | val of 3 years each is 50 years. | What is the age of the |
| | a) 4 years | b) 8 years | c) 12 years | d) 16 years |

| 27. | A is two years older than B, old is B? | who is twice as old as C. If t | the total of the ages of A | A, B & C is 27, then how |
|-----|--|---|----------------------------|--------------------------|
| | a) 7 | b) 8 | c) 9 | d) 10 |
| 28. | A man complete a journey in half at the rate of 24 kmph, | 10 hrs. He travels first half then find total journey in k | • • | e of 21 kmph and second |
| | a) 220 km | b) 230 km | c) 224 km | d) 234 km |
| 29. | A runner can complete a 75 runs at 16.5 kmph? | 50 n race in two and half mi | nutes, will be able to b | eat another runner who |
| | a) yes | b) no | c) can't say | d) never beat |
| 30. | If a alone can complete a w working together then in ho | ork in 20 days. B alone can | - | <u> </u> |
| | a) 15 days | b) 12 days | c) 10 days | d) 18 days |
| 31. | John salary is 50,000/- he g | ot a 15% increment of his s | alary. What is the new | salary? |
| | a) 55,000/- | b) 57,500/- | c) 60,000/- | d) 56,500/- |
| 32. | By how much is 80% of 40 | • | 2) 20 | 1) 12 |
| | a) 10 | b) 15 | c) 20 | d) 12 |
| 33. | A bat is bought for Rs. 75 a | nd sold at a gain of 8%. Fir | nd its selling price? | |
| | a) 81 | b) 80 | c) 82 | d) 85 |
| 34. | Amit sold an umbrella for F | Rs. 680, losing 15% then cos | st price of the umbrella | is? |
| | a) Rs. 782 | b) Rs. 800 | c) Rs. 578 | d) None |
| 35. | Find the S.I on Rs. 5000/- f | or 5 years at 5% per annum | | |
| | a) Rs. 120 | b) Rs. 1250 | c) Rs. 1300 | d) None |
| 36. | How much simple interest v | will Rs 2000 earn in 18 mor | nths at 6% per annum | |
| | a) Rs. 120 | b) Rs. 180 | c) Rs. 216 | d) Rs. 240 |
| 37 | Find compound interest on | Rs 6250 at 8% per annum | for 2 years | |
| 31. | a) Rs. 1004 | b) Rs. 1040 | c) Rs. 2560 | d) Rs. 2400 |
| 38. | Find compound interest on | Rs. 5000 at 12% per annun | n for 1 year compound | ed halfearly? |
| | a) Rs. 618 | b) Rs. 816 | c) Rs. 617 | d) Rs. 716 |
| 39. | The difference between the | SI and CI on Rs. 5000 at 10 | 0% per annum for 3 year | ars is |
| | a) Rs. 145 | b) Rs. 150 | c) Rs. 165 | d) Rs. None |
| 40. | What will be the compound | l interest on Rs. 25,000/- aft | er 3 years at 12% per a | nnum |
| | a) Rs. 9000.30 | b) Rs. 9720 | c) Rs. 10123.20 | d) Rs. 10483.20 |

Directions (41-45) study the following pie chart carefully to answer the questions.

Amount spent on games during the year 2017 (in degrees)

41. How much percent of the total spending is spent on Tennis?

- a) 11 1/9 % b) 22 2/9 %
- c) 25%

d) 20%

42. How much percent more is spent on Hockey than that of Golf?

- a) 27%
- b) 35%
- c) 20%

d) 12 1/9 %

43. How much percent less is spent on football than that on cricket?

a) 28%

- b) 33 1/3 %
- c) 36%
- d) 37.5 %

44. If the total amount on sports during the year was 3.6 crores the amount spent on cricket and hockey together was

- a) 1,40,00,000/-
- b) 1,40,000/-
- c) 14,00,000/-
- d) 14,00,00,000/-

Other

 30^{0}

Golf

 50^{0}

Food Ball

Cricket

Hockey 60^{0}

 80^{0}

45. If the amount spent on sports during the year was Rs. 1,80,00,000 the amount as spent on Basketball exceeds that on Tennis by

- a) 2,50,000/-
- b) 5,00,000/-
- c) 3,75,000/-
- d) 2,00,000/-

Study the following table carefully and answer the question given below it (46 - 50)

| Years | Farmers | | | | | | |
|-------|---------|-----|-----|-----|-----|-----|--|
| | Α | В | C | D | Е | F | |
| 2000 | 420 | 360 | 396 | 528 | 492 | 444 | |
| 2001 | 564 | 492 | 576 | 612 | 576 | 540 | |
| 2002 | 588 | 612 | 624 | 648 | 576 | 564 | |
| 2003 | 600 | 660 | 648 | 636 | 612 | 600 | |
| 2004 | 648 | 708 | 684 | 672 | 660 | 672 | |
| 2005 | 732 | 744 | 720 | 756 | 708 | 720 | |

- 46. What is the average number of paddy bags produced by Farmer D over the years?
 - A) 624
- B) 642
- C) 674
- D) 672

47. The number of paddy bags produced by Farmer B in the year 2003 are approximately what percent of the paddy bags produced by Farmer B over the years?

A) 24

- B) 18
- C) 21
- D) 30

48. What is the respective ratio of the paddy bags produced by Farmer A to the Farmer E in the year 2005?

- A) 60:61
- B) 61:63
- C) 60:63
- D) 61:59

49. What is the respective ratio of the paddy bags produced by Farmers A, B and C together in the year 2000 to the paddy bags produced by Farmers D, E and F together in the same year?

- A) 49:64
- B) 51:61
- C) 49:61
- D) 51:55

50. What is the difference between the total number of paddy bags produced by all the farmers together in the year 2001 and the year 2004?

A) 684

- B) 648
- C) 846
- D) 864