

**UG- LIFE SKILL COURSE**  
**ANALYTICAL SKILLS(AS)**  
(w.e.f. 2020-2021 A.Y.)

Semester	Course Code (LS)	Course Title	Hrs/Sem	Hrs/wk	Credits	Sem End Exam (2 Hrs)
III	Life skill course	Analytical skills(AS)	30	2	2	50 Marks

**Course Objective:** Intended to inculcate quantitative analytical skills and reasoning as an inherent ability in students.

**Course Outcomes:**

After successful completion of this course, the student will be able to;

- Understand the basic concepts of arithmetic ability, quantitative ability, logical reasoning, business computations and data interpretation and obtain the associated skills.
- Acquire competency in the use of verbal reasoning.
- Apply the skills and competencies acquired in the related areas
- Solve problems pertaining to quantitative ability, logical reasoning and verbal ability inside and outside the campus.

**UNIT – 1:** (10 Hrs)

**Arithmetic ability:** Algebraic operations BODMAS, Fractions, Divisibility rules, LCM & GCD(HCF).

**Verbal Reasoning:** Number Series, Coding & Decoding, Blood relationship, Clocks, Calendars.

**UNIT – 2:** (10 Hrs)

**Quantitative aptitude:** Averages, Ratio and proportion, Problems on ages, Time-distance-speed.

**Business computations:** Percentages, Profit & loss, Partnership, simple compound interest.

**UNIT – 3:** (07 Hrs)

**Data Interpretation:** Tabulation, Bar Graphs, Pie Charts, line Graphs. Venn diagrams.

**Recommended Co-Curricular Activities** (03 Hrs)

Surprise tests / Viva-Voice / Problem solving/Group discussion.

**Text Book:**

Quantitative Aptitude for Competitive Examination by R.S. Agrawal, S.Chand Publications.

**Reference Books:**

1. Analytical skills by Showick Thorpe, published by S Chand And Company Limited, Ramnagar, New Delhi-110055.
2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
3. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw Hill Publications.

**ADIKAVI NANNAYA UNIVERSITY :: RAJAMAHENDRAVARAM**  
**UG-LIFE SKILL COURSE**  
**SEMESTER-III**  
**ANALYTICAL SKILLS (AS)**  
**(w.e.f 2020-2021 A.Y)**

**Time: 2 Hrs**

**Max.Marks: 50**

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1. The value of  $[(4444 \div 44) - \{ 625 \div 25 + 1 \}] \div 25$  is

A) 4      B) 6      C) 3      D) 5

2. The value of  $\frac{658 \times 658 \times 658 - 328 \times 328 \times 328}{658 \times 658 + 658 \times 328 + 328 \times 328}$  is

A) 340      B) 350      C) 320      D) 330

3. If  $\frac{3}{5}$  of 350 -  $\frac{4}{7}$  of 210 = ?

A) 80      B) 70      C) 90      D) 60

4. The value of  $6 \frac{5}{12} \times 3 \frac{3}{8} + 2 \frac{3}{16} \times 3 \frac{1}{2}$  is

12      8      16      2

A)  $29 \frac{5}{32}$       B)  $29 \frac{3}{32}$       C)  $29 \frac{10}{32}$       D)  $29 \frac{3}{16}$

5. Which of the following number is not divisible by 11

A) 41745      B) 217316      C) 19756      D) 153980

6. The remainder when  $1753 \times 87 \times 171$  is divisible by 17 is

A) 6      B) 5      C) 4      D) 3

7. LCM of  $\frac{6}{5}, \frac{5}{4}, \frac{4}{3}, \frac{3}{2}$  is

A) 360      B) 60      C) 120      D) 240

8. Which of the following fractions is the largest?

A)  $\frac{7}{8}$       B)  $\frac{13}{16}$       C)  $\frac{31}{40}$       D)  $\frac{63}{80}$

9. What is the greatest number that will divide 964, 1238, 1400 leaving remainders 41, 31, 51 respectively?

A) 53      B) 47      C) 71      D) 79

10. HCF of 3.6, 0.24, 1.2 is

A) 3.6      B) 0.36      C) 0.24      D) 2.4

11. 1, 2, 6, 15, 31, 56, 92, -----

A) 140      B) 141      C) 145      D) 144

12. Find the wrong number of the series.

5, 7, 21, 23, 69, 70, 213.

A) 23      B) 7      C) 69      D) 70

13. If GOODNESS is coded as HNPCODTR, then how GREATNESS can be written in that code?

A) HQZSMFRT      B) HQFZUFRTM

C) HQFZUODTR      D) HQFZUMFRT

14. In a certain code language, 481 means 'sky is blue', 246 means 'sea is deep' and 698 means 'sea looks blue'. What number is the code for 'blue'?

A) 1      B) 6      C) 8      D) 9

15. If  $A + B$  means  $A$  is the brother of  $B$ ;  $A - B$  means  $A$  is the sister of  $B$  and  $A \times B$  means  $A$  is the father of  $B$ . Which of the following means that  $C$  is the son of  $M$ ?

A)  $M - N \times C + F$       B)  $F - C + N \times M$

C)  $N + M - F \times C$       D)  $M \times N - C + F$

16. Pointing to a girl Sandeep said, "She is the daughter of the only sister of my father." How is sandeep related to the girl?

A) Uncle      B) Cousin      C) Father      D) Grandfather

17. The angle between the minute hour and the hour hand of a clock when the time is 4.20, is

A)  $0^\circ$       B)  $5^\circ$       C)  $10^\circ$       D)  $20^\circ$

18. How many times in a day, the hands of a clock are straight?

A) 22      B) 24      C) 44      D) 48

19. What will be the day on 26<sup>th</sup> July 2024?

A) Monday      B) Tuesday      C) Thursday      D) Friday

20. The calendar for the year 2021 will be the same as the year?

A) 2032      B) 2026      C) 2027      D) 2031

21. What is the average of first 81 natural numbers.

A) 81      B) 41      C) 51      D) 45

22. The average age of  $P, Q, R$  and  $S$  is 26 years. If the average age of  $Q$  and  $R$  is 24 years, the average age of  $R$  and  $S$  is 27 years, and the average age of  $Q$  and  $S$  is 25 years then find the ages of  $P$ .

A) 28      B) 22      C) 26      D) 24

23. If,  $A:B = 3:5$ ,  $B:C = 2:7$  and  $C:D = 4:9$  then find  $A:B:C:D$ .

A) 24:40:140:315      B) 12:40:140:330

C) 12:40:140:315      D) 24:40:140:330

24. A box contains *Rs. 5*, *Rs. 10* and *Rs. 20* notes in the ratio 7:5:11. If the total amount in the box is *Rs. 9,150* then find the number of *Rs. 10* notes

A) 210      B) 150      C) 330      D) 200

25. The present age of suri is 6 times of vani's age. Vani's present age is 10 years less than suri's age . Find the present age of suri ?

A) 10      B) 12      C) 14      D) 16

26. Present ages of Seema and Naresh are in the respective ratio of 6:5. After 9 years the ratio of their ages will be 9:8. What is the difference in their ages?

A) 9 years      B) 5 years      C) 4 years      D) 3 years

27. A van can cover a distance of 1260 km in 35 hours. then its speed in metres per second.

A) 36Kmph      B) 10m/sec      C) 54Kmph      D) 15m/sec

28. The speed of a train is 60km/hr. What is the distance in meters covered by the train in 12 minutes?

A) 10km      B) 12km      C) 15km      D) 20km

29. A 600 m long train passes a platform which is 400 m long. Find the distance covered by the train in passing the platform.

A) 600m      B) 200m      C) 1000m      D) 400m

30. The speeds of three cars are in the ratio of 2 : 3: 5. Find the ratio of the time taken by the above cars to travel the same distance.

A) 2:3:5      B) 3:2:5      C) 5:3:2      D) 15:10:6

31. Anil spends 45% of his monthly salary on ration, 15% on house rent, 10% on entertainment, 2% on medicines and saves *Rs. 5,600*. Calculate his annual income.

A) 9000      B) 20000      C) 12000      D) 18000

32. In an examination, it is required to get 65% of aggregate marks to pass. Sudheer gets 570 marks and he is failed by 8%. Find maximum aggregate marks.

A) 900      B) 1100      C) 1000      D) 800

33. Lucky buys a rice cooker for *Rs. 2400* and sells it for profit of 30%. Find the selling price of rice cooker.

A) 2400      B) 3120      C) 3000      D) 2700

34. Neha sells a toy for *Rs. 546* at loss of 9%. How much should Neha sell it to get 6% of profit?

A) 636      B) 646      C) 656      D) 626

35. A, B and C started a business by investing ₹ 90,000, ₹ 1,20,000 and ₹ 1,50,000 respectively. Find the profit of B out of an annual profit of ₹ 76,800.

A) ₹ 19,200    B) ₹ 32,000    C) ₹ 25,600    D) ₹ 36,000

36. A starts a business with ₹ 4,000 and B joins the business 4 months later with an investment of ₹ 5,000. After 1 year they earned a profit of ₹ 22,000. Find the share of A .

A) 6000    B) 12000    C) 10000    D) 5000

37. A sum of Rs.5000 amounts to Rs.6050 in 2 years, what is the rate of interest ?

A) 10%    B) 11%    C) 10.5%    D) 11.5%

38. Rs800 becomes Rs.956 in 3 years at certain simple rate of interest. If the rate of interests is increased by 4%,what amount will Rs 800become in three years ?

A) 252    B) 852    C) 1052    D) None

39. The Compound interest on Rs.7500 at 4% per annum for 2years, compounded annually.

A) 600    B) 750    C) 900    D) 612

40. Find the compound interest on Rs. 16000 at 20% per annum for 9 months, compounded quarterly.

A) 2520    B) 2400    C) 18520    D) 18400

(41-45) Study the following table carefully and answer the following questions.

Years	Farmers					
	A	B	C	D	E	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

41. What is the average number of paddy bags produced by Farmer D over the years?

A) 624      B) 642      C) 674      D) 672

42. 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) 3

43. 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

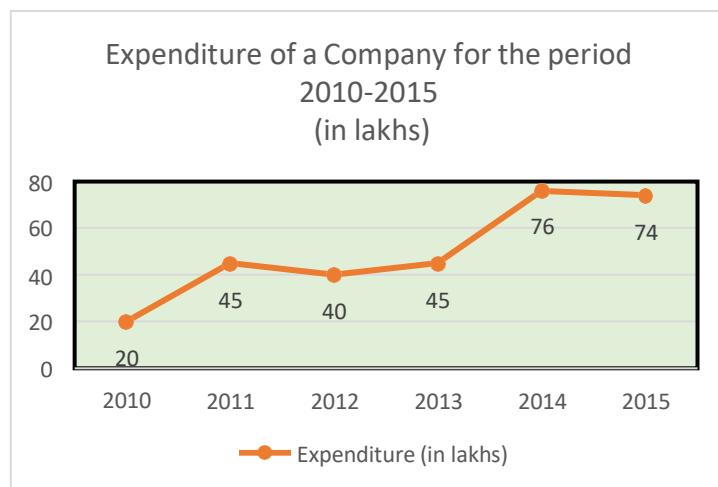
44. What is the respective ratio of the paddy bags produced by Farmers A, B and C together in the year 2000 to the paddy bags produced by Farmers D, E and F together in the same year?

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

45. 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

(46-50) Study the following graph and answer the questions given below.



46. If the income of the company in the year 2010 was Rs. 50 lakhs and the income of the company in the year 2013 was Rs. 95 lakhs find the ratio of the profits of the company in the year 2010 to the company in the year 2013?

A) 3:5      B) 5:3      C) 4:5      D) 5:4

47. What is the approximate percent of profit of the year 2014, if the income of the company was Rs. 136 lakhs?

A) 44%      B) 79%      C) 56%      D)

48. The profit of the company in the year 2011 was RS. 15 lakhs, what was the income of the company in that year?

A) 45Lakhs    B) 60Lakhs    C) 30Lakhs    D) 75Lakhs

49. In which year the percentage of increase/decrease in expenditure was the highest from that of the previous year?

A) 2011      B) 2010      C) 2013      D) 2014

50. What is the average expenditure of the company over the given six years?

A) 50Lakhs    B) 45Lakhs    C) 55Lakhs    D) 60Lakhs

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