# SRI VENKATESWARA UNIVERSITY : TIRUPATI

**Courses Offered for All Groups**

**LIFE SKILLS COURSES**

**w.e.f. AY 2023-24**

**SEMESTER-I**

## COURSE 3: ANALYTICAL SKILLS

Theory Credits: 2 2 hrs/week

**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;

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

**UNIT – 1:**

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

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

**UNIT – 2:**

**Quantitative aptitude:** Averages, Ratio and proportion, Time-distance.

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

**UNIT – 3:**

**Data Interpretation:** Tabulation, Bar Graphs, Pie Charts.

**Recommended Co-Curricular Activities**

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 HillPublications.

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**COURSE 3: ANALYTICAL SKILLS**

**Time: 3 hrs** **Max. Marks 50**

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## Model Question Paper

***Answer all Questions*** **25 X 2 = 50 M**

1. Find the LCM of 16, 24, 36 and 54

   a. 81 b. 21 c. 22 d. None

2. Find the HCF of 513, 1134 and 1215

   a. 24 b. 432 c. 423 d. None

3. Evaluate 11.11 + 111.1 + 1111.11

   a. 1233.23 b. 1322.32 c. 1233.32 d. 1322.23

4. 4368 + 2158 – 596 - ? = 3421 + 1262

   a. 1247 b. 1427 c. 1347 d. 1847

5. 4, 9, 16, ____, 36, 49

   a. 24 b. 46 c. 25 d. None

6. If in a certain code CORPORATIONS is written as PROCTAROSNOI, then how is JUDICAL written in that code

   a. IDUJLAIC b. UJIDLAIC c. UJIDICLA d. IDUJICLA

7. What day of the week was 15$^{th}$ August 1997

   a. Saturday b. Monday c. Sunday d. Friday

8. The angle between the minute hand and the hour hand of a clock when the time is 8:30 is

   a. 80° b. 75° c. 60° d. 105°

9. If BOWLER is coded as CPXMFS will be coded as GROUND

   a. HSPUOE b. HSPVDE c. HSPVDF d. None

10. Find the average of 10, 15, 25, 30

    a. 20 b. 30 c. 15 d. 25

11. 70% of 320 + 45% of 240

    a. 334 b. 232 c. 332 d. None

12. A gold bracelet if sold for ₹ 14,500 at a loss of 20%. What is the cost price of the gold bracelet.

a. 18126 b. 18125 c. 11284 d. 14825

13. If 7:x = 17.5 : 22.5 then find the value of x

a. 8 b. 7 c. 4 d. 9

14. A train travels 82.6 km/hr. How many meters will it travel in 15 minutes

a. 2060m b. 26050m c. 25060m d. None

15. Find the simple interest on ₹ 68,000 at $16\frac{2}{3}$ % per annum for 9 months

a. ₹ 8500 b. ₹ 8600 c. ₹ 9600 d. ₹ 9500

16. A sum of simple interest at $13\frac{1}{2}$ % per annum amount to ₹ 2502.50 after 4 years. Find the sum.

a. ₹ 1265 b. ₹ 1625 c. ₹ 1725 d. ₹ 1275

17. A Cyclist covers a distance at 750m in 2 min 30 sec. What is the speed in Km/hr of the cyclist.

a. 18 km/hr b. 17 km/hr c. 16km/hr d. 15km/hr

Directions (Questions 18 to 21): Study the table and answer the given questions.
Number of members in 5 book clubs during 5 given years:

| Year / Book Club | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|
| M | 189 | 133 | 169 | 113 | 189 |
| N | 125 | 164 | 205 | 129 | 187 |
| O | 121 | 120 | 189 | 178 | 195 |
| P | 147 | 167 | 145 | 147 | 123 |
| Q | 129 | 234 | 154 | 169 | 177 |

18. Number of members in book club O increased by what percent from 2007 to 2010?

a. 65 b. 64.5 c. 58 d. 62.5 e. 56.5

19. What is the difference between total number of members in book clubs O and P together in 2006 and that in book clubs M and N together in 2008?

a. 98 b. 94 c. 96 d. 104 e. 106

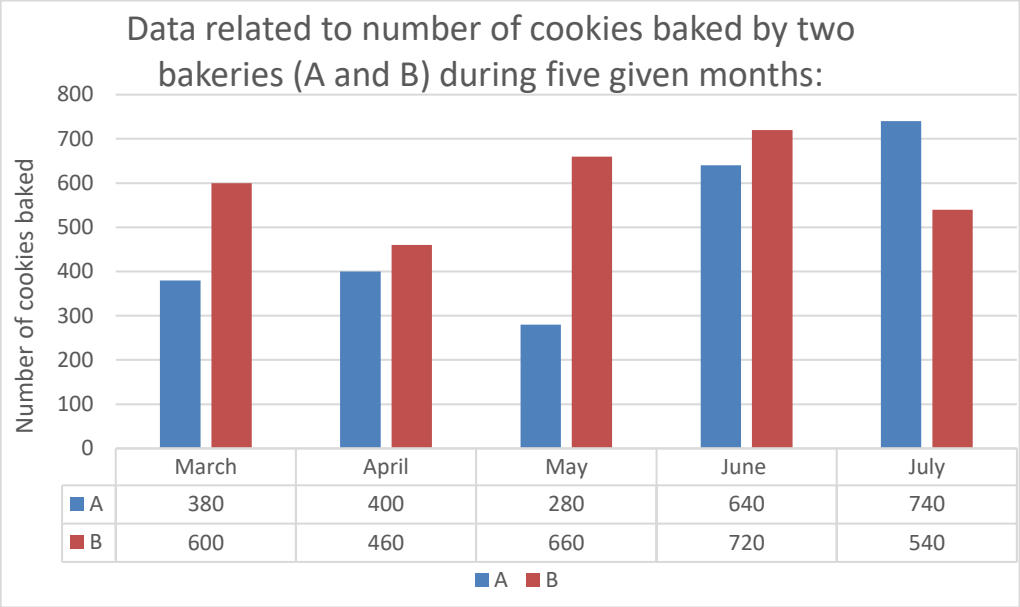
20. What is respective ratio between total number of members in book club M in 2006 and 2010 together and that in book club Q in the same years together ?

a. 21 : 17 b. 21 : 19 c. 19 : 17 d. 23 : 19 e. 23 : 17

21. What is the average number of members in book clubs M, N and Q in 2007?

a. 179 b. 181 c. 177 d. 183 e. 173

22. Directions (Questions 22-25): Study the bar graph and answer the questions that follow.




22. Number of Cookies baked by bakery B in June is approximately what percent of the total number of cookies baked by the same bakery in March and May together?

a. 63 b. 45 c. 70 d. 51 e. 57

23. If the total number of cookies baked by bakeries A and B together in September is 25% less than the total number of cookies baked by the same bakeries together in July, What is the total number of cookies baked by the same bakeries together in September ?

a. 1020 b. 960 c. 920 d. 940 e. 1080

24. Bakeries A and B bake only two types of cookies – Chocolate cookies and vanilla cookies. If the respective ratio of total number of chocolate cookies to total number of vanilla cookies baked by bakeries A and B together in June is 13 : 7, What is the total number of Vanilla cookies baked by bakeries A and B together in June ?

a. 490 b. 509 c. 462 d. 518 e. 476

25. What is the difference between average number of cookies baked by bakery A in March and May together and average number of cookies baked by bakery B in April and June together?

a. 240 b. 300 c. 260 d. 280 e. 320