

**CLUSTER UNIVERSITI, KURNOOL.**

**UG SECOND YEAR III SEMESTER END EXAMINATION DECEMBER 2023**

**Group : BSc, B.Com, BA**

**SUBJECT : Life Skill Course**

**Paper Code & Title : C3116 Analytical Skills**

**Time:2 Hours**

**Max.Marks:50**

**SECTION-A**

**Answer all questions. Each question carries 2 marks**

**(15 × 2M = 30 M)**

1. Simplify  $11 - (5 - 1) + 1$  of  $6 - 10 + 5 - 11$

- (a) 90      (b) -30      (c) -6      (d) 44

2. Find the H C F of 108, 288, 360

- (a) 28      (b) 30      (c) 36      (d) 44

3. 144, 169, 196, 225, -----

- a) 160      b) 256      c) 168      d) 150

4. If DEVICE is coded as BAREXA and ORNATE is coded as ZVMESA, what VIDEO be coded as?

- (a) RIBAZ      (b) REBAZ      (c) RBEAZ      (d) ZABER

5. Amit said – “This girl is the wife of the grandson of my mother”.

How is Amit related to the girl ?

- (a) Father      (b) Father-in-law      (c) Brother      (d) Brother-in-law

6. 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)  $20^\circ$

7. If  $A:B = 2:3$  and  $B:C = 4:9$  then  $A:B:C$  is

- (a) 2:3:9      (b) 2:4:9      (c) 8:12:27      (d) 8:27:12

8. A cyclist covers a distance of 660 m in 2 min 45 sec. What is the speed of the cyclist in km/hr?

- (a) 144      (b) 14.4      (c) 1.44      (d) 0.144

9. 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) 28      (b) 12      (c) 16      (d) 14

10. Find the Simple interest on Rs.200 for year at 6% per annum?

- (a) 38      (b) 30      (c) 46      (d) 48

Student strength of XYZ college in the Academic year 2019-20.							
	Arts		Commerce		Science		Total
	Boys	Girls	Boys	Girls	Boys	Girls	
I Year	46	46	60	40	28	56	276
II Year	44	44	57	38	27	54	264
III Year	42	42	54	36	26	52	252
Total	132	132	171	114	81	162	792

11. The total number of girls in the college in 2019-20 was \_\_\_\_\_  
 (a) 308                      (b) 300                      (c) 406                      (d) 408
12. The number of first year boys in the academic year 2019-20 are \_\_\_\_\_  
 (a) 138                      (b) 130                      (c) 134                      (d) 418
13. The percentage of arts students in the total student strength of 2019-20 =?  
 (a)  $38\frac{1}{2}\%$                       (b)  $33\frac{1}{3}\%$                       (c)  $46\frac{1}{2}\%$                       (d) 48%
14. The difference between number of boys and girls in the academic year 2019-20 are \_\_\_\_\_  
 (a) 23                      (b) 24                      (c) 26                      (d) 28
15. The total number of boys in second year are \_\_\_\_\_  
 (a) 128                      (b) 218                      (c) 182                      (d) 132

### SECTION-B

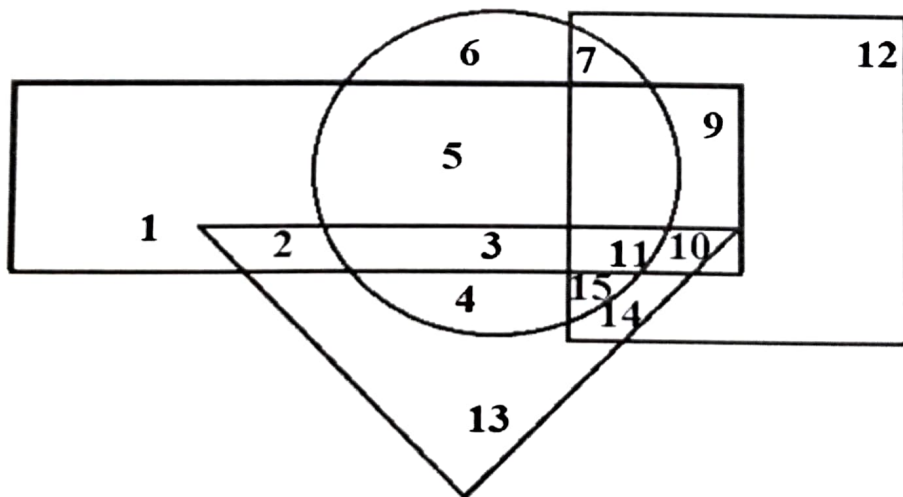
**Answer any FIVE questions. Each question carries 4 marks                      (15 × 4M = 20 M)**

- Six bells rang at intervals of 2,3,10,15,20,22 seconds respectively. In 30 minutes duration how many times all the bells rang together?
- (a). If in a certain code 'INTELLIGENCE' is written as 'ETNIGILLECNE', then how can 'MATHEMATICAL' be written in the same code?  
 (b). If GRASP is code as TIZHK, what will be code as OVTZXB?
- The average weight of a class of 20 students is 40.5 kg. If a student weighing 42 kg has left the class and another student of weight 35 kg has joined the same class then what is the average weight of the class?
- Raju spends 45% of his monthly salary on ration, 15% on house rent, 10% on entertainment, 2% on medicines and saves Rs.5600. Calculate his annual income?

- A, B and C starts a business with investing Rs.15,000 each. A remains in partnership for 9 months, B for 6 months and C for 12 months. Then find the ratio of their profits.
- The bar graph shows the number of copies "Analytical skills" sold by a bookseller during the period from April 2021 to August 2021



- What is the difference between the sale of books in April and August?
  - In which month was the sale of the book maximum?
  - In which month was the sale of the book minimum?
  - What is the total sale of the books during these five months?
7. In the Venn given below, circle represents employees, square represents married persons, triangle represents men and rectangle represents educated persons. Each section is numbered. Study the diagram to answer the following questions.



- Which numbered region represents unmarried men who are educated employees?
- What section of people are represented by the region numbered 7?
- Which numbered regions corresponds to unemployed married men?
- What section of people are represented by the region numbered 14?