

**GOVERNMENT COLLEGE FOR WOMEN(AUTONOMOUS),SRIKAKULAM
REACCREDITED WITH NAAC 'A' GRADE**

**B.A,B.Com,B.Sc (Supplementary) Semester-III
(2021-22 Admitted Batch)**

**Paper : Analytical Skills
Marks : 50**

**Time : 1 1/2 Hrs
Date : 11-12-2024**

SECTION -A

I. Answer THREE of the following Questions 3 x 10 =30M

1. Find the missing terms in the following sequences with suitable explanations.
 - a) ACE, BDF, CEG, ?
 - b) NO: RS :: TU: ?
 - c) 4, -8, 16, -32, 64, ?
 - d) 9, 12, 11, 14, 13, ? , 15
2. A machine was bought for 1500 rupees and a repairing charge of 100 rupees was wards. At what price should it be sold to gain a profit of 25%?
3. A, B and C invested Rs. 6,300, Rs. 4,200 and Rs. 10,500 respectively in a Partnership business. Find the share of 'A' in profit of Rs. 12,100 after a year.
4. Find the compound interest on Rs. 10,000 in 1 years at 4% per annum, the interest being Compounded half-yearly.
5. Study the following information carefully and answer the questions.

The officer's colony of Badaun has 2800 members out of which 650 members read only English newspaper. 500 members read only Hindi newspaper and 450 members read only Marathi news paper. The number of members reading all the three newspapers in 200, 400 members read Hindi as well as Marathi newspaper only and 300 members read English as well as Marathi newspaper only and 300 members read English and as well as Hindi newspaper only.

1)find the difference between the number of members reading English as well as Marathi news paper only and the number of members reading English as well as hind news paper only .

- a) 300 b) 200 c) 100 d) 50 e) none of these
- 2) How many members read at least two news papers?
 - a) 600 b) 800 c) 500 d) 100 e) none of these
- 3) Find the number of members reading Hindi news paper?
 - a) 750 b) 980 c) 1400 d) 1020 e) none of these
- 4) How many members read only one news paper?
 - a) 1560 b) 1600 c) 1650 d) 1540 e) none of these
- 5) Find the number of members reading three newspapers.
 - a) 200 b) 460 c) 550 d) 750 e) none of these

SECTION-B

II. Answer any FOUR of the following

4 x 5M =20M

6. The average of 35, 39, 41, 46, 27 and x is 38, What is the value of x ?
7. Find LCM of 22, 54, 108, 135 and 198.
8. The ratio between the present ages of Aishwarya and Sanjana is 2: 3. 10 years ago it was 3: 5. What will be the ratio between their ages after 20 years?
9. 729 ml of a mixture contains milk and water in the ratio 7 : 2. How much more water is to be added to get a new mixture containing milk and water in the ratio of 7 : 3 ?
10. In a class of 50 students, 35 students can speak English and 40 students can speak Hindi. Find the number of students who can speak both the languages. Draw the Venn diagram.
11. If $A:B=7:5$ and $B:C=9:11$ then find $A:B:C$?
12. Write the divisibility rules of 4 and 5 and write examples.
13. Find the Missing term in the sequence : ST 39, UV 43, WX 47, ?