

22U364

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Name:

Reg. No:

THIRD SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2023

(Regular/Supplementary/Improvement)

CC21U GEC3 A11 – BASIC MATHEMATICS AND GENERAL AWARENESS

(General Course)

(2021 Admission onwards)

Time: 2.5 Hours

Maximum: 80 Marks

Credit: 4

PART – A

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

1. Find the L.C.M. of 72, 108 and 2100.
2. Two numbers are in the ratio 15: 11. If their H.C.F. is 13, find the numbers.
3. Solve: $4368 + 2158 - 596 - ? = 3421 + 1262$.
4. Simplify: $1 \div [1 + 1 \div \{1 + 1 \div 1(1 + 1 \div 2)\}] + 1$.
5. If in a certain code 15789 is written as *XTZAL* and 2346 as *NPSU* then how will 23549 be written in the same code?
6. If in a certain code language, 'phi lem ta' means 'you are good' 'lem se par' means 'they are well', 'par lem mag' means 'they are innocent' and 'phi gir' means 'you go'. What will be 'you are innocent' in the same code?
7. A man walks 2 km. towards North. Then he turns to East and walks 10 km. After this he turns to North and walks 3 km. Again, he turns towards East and walks 2 km. How far is he from the starting point?
8. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?
9. Define action research.
10. What do you mean by problem?
11. Who invented mouse?
12. Explain OMR.
13. Define application software. Give example.
14. What are the parties of an insurance?
15. What is a cheque?

(Ceiling: 25 Marks)

PART – B

Answer *all* questions. Each question carries 5 marks.

16. Find the simple interest on Rs. 68000 at $16\frac{2}{3}\%$ per annum for 9 months.
17. At what rate percent per annum of compound interest will Rs.1600 amount to Rs.1852.20 in 3 years?

