21U362 (Pages: 2) Name: ………………………

Reg. No: ……………………

THIRD SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2022

(General Course)

CC21U GEC3 A11 – BASIC MATHEMATICS AND GENERAL AWARENESS

(2021 Admission - Regular)

Time: 2.5 Hours Maximum: 80 Marks

Credit: 4

PART – A

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

1. Find the H.C.F. of $108, 288 \; and \; 360$.

2. Arrange the fractions $\frac{3}{5}, \frac{4}{7}, \frac{8}{9} \; and \; \frac{9}{11}$ in descending order of magnitude.

3. Simplify: $460 \times 15 - 5 \times 20$.

4. A man travels 82.6 km/hr. How many meters will it travel in 15 minutes?

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,' wok che ne' means 'they are see' 'wu che rot' means 'we are red' and 'da ne pa' means 'they want water' then what would be the code for 'water'?

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. If frog is called lizard, lizard is called fish, fish is called snake, snake is called mole then to which is fisherman related?

   (a) Snake (b) Mole (c) Lizard (d) Fish (e) Frog

9. What is the purpose of historical research?

10. Define alpha error.

11. Who invented mouse?

12. Explain OMR.

13. What is the purpose of a projector?

14. What are the parties of an insurance?

15. What is demat account?

(Ceiling: 25 Marks)

PART – B

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

16. 3 men and 4 women can earn Rs.3780 in 7 days.11 men and 13 women can earn Rs.15040 in 8 days. In what time will 7 men and 9 women earn Rs. 12400?

17. At what rate percent per annum of compound interest will Rs.1600 amount to Rs.1852.20 in 3 years?

18. **Directions** – In each of the following questions two statements are given and these statements are followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

    Statements: Some dogs are bats. Some bats are cats

    Conclusions:

    I. Some dogs are cats.

    II. Some cats are dogs.

19. **Directions** – In each of the following questions two statements are given. Which are followed by four conclusions I, II, III and IV. Choose the conclusions which logically follow from the given statements.

    Statements: Some cars are scooters. No scooter is cycle.

    Conclusions:

    I.   No car is cycle.   II. No scooter is car.

    III. Some cars are cycles.   IV. Some scooters are cars.

    (a) None of the four (b) All the four (c) Only I and IV (d) Only IV (e) Only II and IV

20. What are the characteristics of survey method?

21. What is the need of thesis report writing?

22. Explain the terms (i) URL address (ii) Web browsers.

23. What is a credit card? Explain the terms associated with credit card.

(Ceiling: 35 Marks)

PART – C

Answer any *two* questions. Each question carries 10 marks.

24. Explain the characteristics of good research.

25. What is a software? Explain its functions and types.

26. List any ten shortcut keys regarding MS-Excel.

27. Describe the functions of commercial banks.

(2 × 10 = 20 Marks)

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