

23U364

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Name:

Reg. No:

THIRD SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2024

(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 H.C.F. of 513, 1134 and 1215.
2. Two numbers are in the ratio 3: 4. If their L.C.M. is 84, find the numbers.
3. $3456 \div 12 \div 8 = ?$.
4. Find the average of all prime numbers between 30 and 50.
5. If the code of *RAM* is 32, then what is the code of *MAN*?
6. In a certain code *ABHIJIT* is written as *CEJLLLV*. How will *BROTHER* be written in the same code?
7. In a line of girls if Kamala's position from the left is 15th and from the right her position is 17th, how many girls are there in the line?
8. Gourav walks 20 km. towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally, he moves 20 km. after turning to the left. How far is he from his starting position?
9. Define research.
10. What is one group design?
11. What is a QR code?
12. Identify any two application softwares.
13. What is the full form of VIRUS?
14. What is offer?
15. What is NEFT?

(Ceiling: 25 Marks)

PART – B

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

16. Find the simple interest on Rs.3000 at $6\frac{1}{4}\%$ per annum for 4th Feb.,2009 to 18th April, 2009.
17. Find the compound interest on Rs.16000 at 20 % per annum for 9 months, compounded quarterly.

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.

Give Answer:

- (a) If only I conclusion follows
- (b) If only II conclusion follows
- (c) If either I or II follows
- (d) If neither I nor II follows
- (e) If both I and II follow

Statements: Some papers are pens. All the pencils are pens.

Conclusions:

- I. Some pens are pencils.
- II. Some pens are papers.

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 pens are books. Some books are pencils.

Conclusions:

- I. Some pens are pencils.
- II. Some pencils are pens.
- III. All pencils are pens.
- IV. All books are pens.

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

20. Explain philosophical method of research.

21. List the steps involved in research design.

22. Explain RAM and its types.

23. Describe IMPS.

(Ceiling: 35 Marks)

PART – C

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

24. Explain the format of thesis report writing.

25. Explain the generation of computers.

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

27. Describe the different types of loans.

(2 × 10 = 20 Marks)
