LEVEL 3

DEMONSTRATE NUMERACY SKILLS

July/August 2024

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

WRITTEN ASSESSMENT

2 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in sections A and B in the answer booklet provided.
3. Marks for each question are indicated in brackets.
4. You should have a non-programmable calculator.
5. Do not write on this question paper.
6. Answer the questions in **English.**

This paper consists of SIX (6) printed pages.

Candidate should check the question paper to ascertain that

all the pages are printed as indicated and that no questions are missing.

SECTION A (20 MARKS)

Answer all questions in this section. (1 mark each)

1. The product of two negative numbers is positive. True or False
2. The standard form of 0.0000015 is 1.5×10^6 True or False
3. If $x = 7$ then $x - 7 = 0$ True or False
4. In Figure 1, Car B will turn west to enter the restaurant. True or False

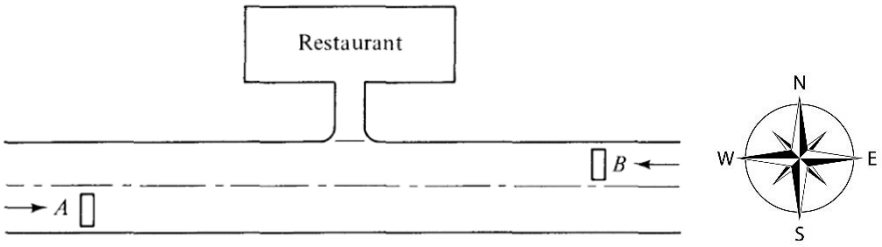

Figure 1

5. If two triangles have the same perimeter, they must have the same area. True or False
6. The volume of a cube of side 5cm is equal to 125cm^2. True or False
7. Figure 2, shows an example of a triangle. True or False

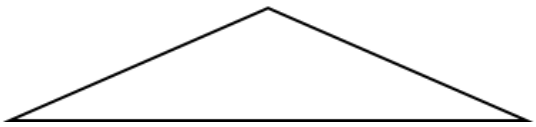

Figure 2

8. There are eighty-six thousand four hundred and one seconds in a day. True or False
9. Ten is a natural number. True or False
10. Figure 3, shows the clock readings to monitor schools lunch time school lunch which starts at 1PM. Has lunch time already started. True or False

Figure 3

11. Find the number of tiles measuring 20cm by 30cm that are required to cover a floor of 4 metres by 4.5metres. (1 Mark)

    A. 0.03
    B. 10800
    C. 300
    D. 34

12. Figure 4, shows a pie chart showing employed people in various sectors. The difference between the number of people employed in public service and those employed in construction is. (1 Mark)

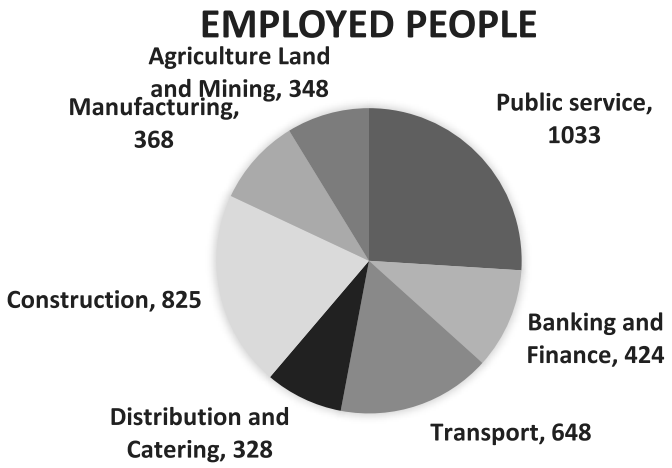

Figure 4

A. 208
B. 825
C. 1858
D. 1033

13. Which of the following fractions is an equivalent to $\frac{2}{3}$. (1 Mark)

    A. $\frac{9}{6}$
    B. $\frac{5}{6}$
    C. $\frac{6}{9}$
    D. $\frac{4}{5}$

14. Find the area of a circle whose diameter is 14cm. (take $\pi = \frac{22}{7}$). (1 Mark)

A. 44
B. 154
C. 616
D. 22

15. Convert 1 ½ hours into minutes. (1 Mark)

A. 60.5
B. 90
C. 5400
D. 40

16. Using a calculator, evaluate $24 + 25 \div (8 - 3) - 14 + 3 \times 2$ (1 Mark)

A. 16.125
B. 9
C. 21
D. -9.875

17. Find the value of p given that $3p - 3 = 18$ (1 Mark)

A. 7
B. 21
C. 5
D. 15

18. State which of the direction of a compass is primary. (1 Mark)

A. North-East
B. South-South-West
C. East-West
D. South

19. **Table 1**, shows the taxes paid in the year 2019 and 2021. Find the total tax paid in 2021.

Table 1

Type of Tax	**2019 (Ksh.)**	**2021 (Ksh.)**
Income Tax	2,800	5,180
VAT	1,916	2,556

(1 Mark)

A. Ksh. 4,716
B. Ksh. 4,472
C. Ksh. 7,736
D. Ksh. 7,980

20. The length of a room is 1 metres, how many Millimeters is the length of the room.

(1 Mark)

A. 100
B. 0.001
C. 1000
D. 10

SECTION B (30 MARKS)

Answer all questions in this section

21. Indicate the place values of: 4, 8 and 5 in the decimal number 1438.7659 (3 Marks)

22. Michele traveled from Kisumu to Kakamega a distance of 83 km, then to Mbale a distance of 26km and finally to Luanda Market a distance of 6.25 km. Find the total distance covered by Michele to the nearest whole number (3 Marks)

23. Ali spent $\frac{1}{3}$ of his Salary to cater for house rent and $\frac{1}{5}$ of the salary as savings. If the house rent 10,000, find the amount he saved. (2 Marks)

24. A sachet of blue band weighs 50g and costs Ksh. 30. Find the cost of 1kg of blue band.

(3 Marks)

25. Table 2 shows the values of x and y, draw a line graph of y against x. (3 Marks)

Table 2

x	-4	-2	2	4
y	0	3	9	12

26. Figure 5 shows a pictogram representing the number of cars parked in a college. How many more cars were packed on Tuesday than on Thursday (3 Marks)

Figure 5

27. Find the area of right angled triangle whose base length is 3cm and height of 4cm. (3 Marks)
28. Find the volume of a cuboid box whose dimensions are 12cm by 8cm by 5 cm. (3 Marks)
29. Students traveling for a trip to Kisumu from Nairobi took 400minutes. If the journey began at 11:30 AM, at what time in 12 hour clock system did the students arrive in Kisumu (4 Marks)
30. Table 3 shows the number of road accidents in Kenya in 2019. Find the total number of accidents in the months of February, May, July and December. (3 Marks)

Table 3

Jan	Feb	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
411	364	369	418	433	444	464	490	525	495	556	545

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