PASS PLE EXAMS

INTEGERS

TOPICAL QUESTIONS SET I 2021

Attempt all questions

Time Allowed: 2 hours 30 minutes

Name: ………………………………………………………………………. Stream………………………

SECTION A (40 MARKS)

1. Simplify: $^-4 + {}^-2$

2. Simplify: $^-7 - {}^-8$

3. Work out: $^+9 - {}^-4$

4. Arrange the following numbers beginning with the smallest: 3, 0, $^-1$, 8, $^-6$

5. The sum of 4 consecutive integers is 18. Find these integers.

6. The temperature of a hailstone was -5 ^0C and that of water was 25 ^0C. What was the difference in temperature between the hailstone and water?

7. Work out: $^-5 + {}^+2$

8. Today is Monday, the workers on a farm are paid their salary. What day of the week will the workers' next pay be, 26 days from today?

9. Work out: 2 – 6 (mod 7)

10. Find the value of X:
3 + 3 = X (finite 4)

11. Simplify: $^-82 - {}^+2$

12. Solve and give your answer in finite 7
$$X – 3 = 6 \text{ (finite 7)}$$

13. Solve for X:
$$3 + 4 = X \text{ (finite 5)}$$

14. Solve: 5 + n = 3 (finite 7)

15. Simplify: $^-2 - {}^+2$

16. A car from the start point is drove 5 metres forward and then 7 metres reverse. What is the position of the car from the start point

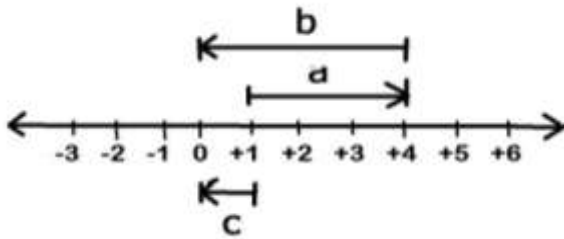17. Find the additive inverse of $^+4$.

.

18. Showing the working, find the additive inverse of ^-h.

19. The integers range of two integers is 5. If the smaller integer is $^-6$, find the value of the bigger integer

20. Using only dial, work out: 3×4 (finite 5)

21. Use the numberline below to answer the questions that follow.

(i) What integers are represented on the numberline above?

a = _____

c = _____

b = _____   (1 marks each)

(ii) Write the mathematical statement shown above on the numberline.   (2 marks)

22. (a) If today is Saturday, what day of the week was it 17 days ago.   (2 marks)

22(b). If yesterday was a Wednesday, what day of the week will it be in 34 days from now?
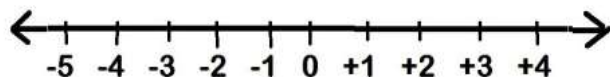(3 marks)

23. In a quiz, 3 marks are awarded for every correct answer and a mark is deducted for every wrong answer, if the quiz had a total of 15 questions.

(a) John passed only 11 questions and he failed the rest. Find his score.   (2 marks)
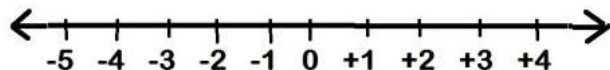
23(b) Mary failed only 2 questions and she passed the rest. How many questions did Mary pass? *(1 mark)*

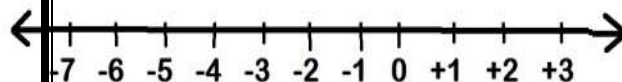**(c)** What did Mary score in the quiz *(2 marks)*

24.(a) Using a numberline, work out:

$^-3 + {^+2}$ *(2 marks)*

```
←――+――+――+――+――+――+――+――+――+――→
   -5  -4  -3  -2  -1   0  +1  +2  +3  +4
```

(b) Using a numberline, work out:

$^-1 - {^-4}$ *(2 marks)*

```
←――+――+――+――+――+――+――+――+――+――→
   -5  -4  -3  -2  -1   0  +1  +2  +3  +4
```

(c) Using a numberline, work out:

$2 \times {^-3}$ *(2 marks)*

```
←――+――+――+――+――+――+――+――+――+――→
 -7  -6  -5  -4  -3  -2  -1   0  +1  +2  +3
```

25.(a) Solve: $3Y = 5$ (finite 7)   *(2 marks)*

(b) Write the integers represented by letters a and b on the number line below.

(PLE 2016 number 8).
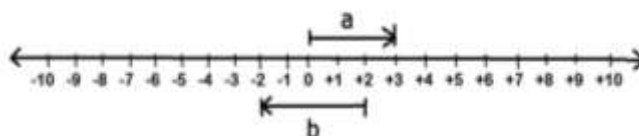
(i) a ....   **(ii) b** ....

(1 mark each)

26.(a) Work out 1 ÷ 5 (finite 6)
(3 marks)

(b) Work out: ⁻2 x ⁺3
(2 marks)

27. In a quiz of 20 questions, 5 marks are awarded for every correct answer and 2 marks were deducted for every wrong response/answer. If Tom scored 51 marks,

(a) find how many questions he failed. *(4 marks)*

27(b) find how many questions he passed.   *(2 marks)*

28 (a) Martin was born in 12 BC and he died in 13AD. Find how old martin was by the time he died.

(2 marks)

(b) Otim had a debt of sh 5,4000 on his account and he received his salary of sh 200,000. Find the amount money he will be having on the account afterwards.

(2 marks)

29(a) List the solution set for y:

$$Y < {}^+3$$ *(2 marks)*

(b) List the solution set for h:
 $h > {}^-4$ where the values of h are all negative integers.

(3 marks)

30. Amin was told to arrange the integers below starting with the biggest to the smallest.

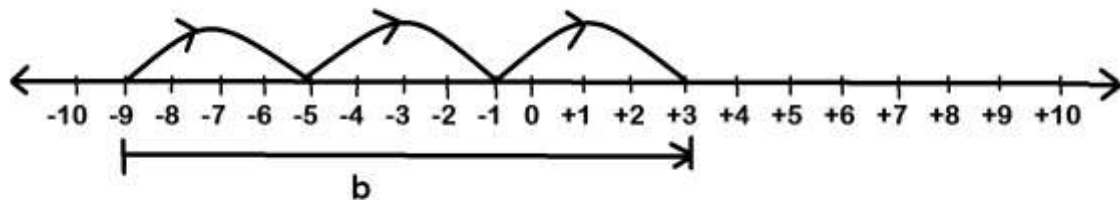$${}^-3 , \quad {}^+1, \quad {}^+2, \quad {}^-1$$

(a) What integer did he end with?

(1 mark)

(a) What integer did he start with?   *(1 mark)*

(c) A bus travelling from Accra to Kampala started at 7:00pm and it travelled for 18 hours from. At what time of the day did it arrive in Kampala?   *(3 marks)*

7

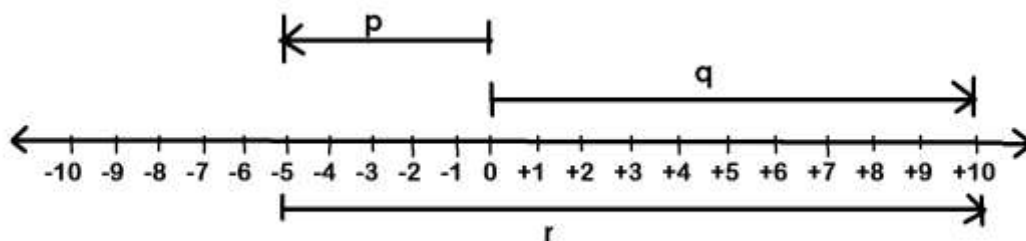**31.** Use the number line below to answer the questions that follow.

(a) What integer is represented by letter b.   *(1 mark)*

(b) Write the mathematical statement represented on the numberline above?   *(2 marks)*

(c) Simplify: $^-2^3$ *(2 marks)*

32. Use the number line below to answer the questions that follow.

(a) Write the mathematical statement represented on the numberline above?   *(2 marks)*

(b) Find the difference of the next two numbers in the sequence.
   15, 11, 7, 3,_____, _____   *(3 marks)*

END

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