JC/048C LJ Ahm ame: M PTEMBE

2027 201



## NATIONAL TEACHING COUNCIL

GHANA TEACHER LICENSURE EXAMINATION (GTLE)



REG. Number	GILE/NJC/0460/22	Date: 16-12-2022
centre Name	WA	
signature	Out?	Duration: 1hr 30min

PAPER III

NUMERACY

### INSTRUCTION

This paper consists of two parts, A and B. Part A consists of 30 multiple-choice questions with four options lettered A to D. Read and evaluate all four answer choices before circling the correct or best answer. Part B consists of THREE questions to be answered on the paper.

	Score
ns	
1.	
2.	
3.	,
Total Score	
	1. 2. 3.

#### PART A (30 marks)

# Answer all the questions

This part consists of 30 multiple-choice questions with four options lettered A-D. Read and evaluate all four answer choices before circling the correct or best answer.

- 1. When twice a certain number is subtracted from four, the result is the same as twice the number. What is the number?

  - B. 2 C. 3

  - D. 4
- 2. What is the value of the underlined digit in the amount, GH $\emptyset$ 5 $\underline{\bf 5}$ 5.55?
  - A. GHg0.05
  - B. GHg0.50
  - C. GHø5.00
  - D. GH¢50.00
- 3. The following scores were obtained by ten learners in a class test: 8, 5, 6, 4, 6, 7, 9, 8, 8 and 5. What is the range of the scores?
  - A. 4
  - B. 5
  - C. 6
  - D. 8
- 4. If An object weighs 40.24kg, what is the mass of this load in grams?
  - A. 402.0g
  - B. 402.4g
  - C. 4024g
  - D. 40240g
- 5. A pool with a rectangular base 10 metres by 3 metres is 2 metres deep. What is the volume of water in the pool when it is half full?

  - B. 40 m<sup>3</sup>
  - C. 60 m<sup>3</sup>
  - D. 80 m<sup>3</sup>
- 6. A Red Cross Society in Redeemer JHS has 80 members. Given that 30 of the members are males, express the number of females as a ratio of the
  - A. 3:5
  - B. 3:8
  - C. 5:3
  - D. 8:3

2 of 12 | GTLE 93 N U 1 6 1 2 2 0 2 2 a

	7. Out of 60 learners in a class, 36 are boys. If a prefect is to be selected at random from the class, what is the probability that a girl is selected?  A. $\frac{1}{36}$ B. $\frac{2}{3}$
	C. $\frac{2}{5}$ D. $\frac{3}{5}$ 8. How many hours will it take a motorist to cover 160 kilometres travelling at an average speed of 80 km every hour?  A. 2 hours  B. 4 hours  C. 6 hours  D. 8 hours
	9. A numeracy examination paper starts at 9:45 a.m. If the documents of the paper is 2 hours 30 minutes, at what time is the examination expected to end?  A. 12.10 p.m. B. 12.15 p.m. C. 12.30 p.m.
ı	D. 12.45 p.m.  10. When 3 is added to 5 times a certain number and the sum is multiplied by  4, the result is 72. What is the number?  A. 3  B. 4  C. 5  D. 6
	D. 6  11. Given the data: 3, 4, 4, 5, which of the following statements is true?  A. mean = mode = median

at every 7 days, 14 days, and 28 days intervals respectively. If they all held their funeral rites on 12th March 2022, on which of the following dates did all the three towns hold their funeral rites on the same day? A. 2<sup>nd</sup> April 2022 B. 9th April 2022

12. Three towns, Oseikrom, Mensakrom and Mosikrom perform their funeral rites

B. mean > mode > median C. mode > mean > median D. mode > median > mean

au CA 13. Kofi spent  $\frac{1}{3}$  of his pocket money on books which costed GH¢30.00. How much was his pocket money? A. GHØ90.00 B. GHg60.00 C. GHg120.00 D. GHg100.00 14. Sumaila is twice as old as his daughter Asana. In the next five years the sum of their ages would be 85 years. How old is Asana? A. 25 years B. 30 years C. 35 years D. 55 years 15. A contingent of 75 athletes has 15 more boys than girls. If a leader is to be selected from the contingent, what is the probability that a girl is selected? B.  $\frac{2}{5}$ C.  $\frac{3}{5}$ D. 4/5 16. A square-shaped garden of side 15 metres has a gate 1.5 metres wide. If a metre of wire mesh costs GH¢10.00, how much money would be needed to buy wire to fence round the plot? A. GHØ580.00 B. GHØ585.00 C. GHg600.00 D. GHg615.00 17. A farmer wants to decongest his three cattle ranches such that each ranch has 320 cattle. If the first ranch has 486 cattle, the second ranch has 361 cattle, how many cattle are in the third ranch? B. 115 C. 124 D. 133 18. A cargo, truck can convey a load of 10,000 kg. If it is conveying some bags of cement each weighing 50 kg, which of the following expressions can be used to determine the number of cement bags it can convey at a time? B. 10,000 + 50 C. 10,000 × 50 . D. 10,000 ÷ 50 4 of 12 | GTLE 93 N U 1 6 1 2 2 0 2 2 a

whole packs were not shared?

A. 4% B. 16%

C. 25%

D. 96%

21.Ten 10 pieces of cloth are to be shared among the children in an orphanage. If each child received a half piece of the cloth, how many children received a share of the cloth?

B. 10 C. 12 D. 20

The table below gives the number of JHS learners who voted for Linda and Mercy during the election of the girls' prefect of a school. Use the information to answer questions 22 to 24.

CANDIDATE	JHS 1	JHS 2	JHS 3
Linda	23	20	37
Mercy	15	35	50

22. How many more votes did the winner get than the loser?

A. 9 B. 32

C. 20

D. 17

23. Out of those who voted in JHS 2, what fraction voted for Linda?

В.

D.  $\frac{7}{11}$ 

... ANA TEACHER LICENSURE 24. Which one of the following graphs is the most appropriate for representing the given data? A. Bar graph B. Histogram C. Line graph D. Stem and leaf plot 25. A statue is 120 metres high. A new statue built has a height which is 25% shorter than that of the old statue. What is the height of the new one? A. 95 m B. 90 m C. 75 m D. 100 m 26. A fishmonger bought a basket of fish at GH¢900.00. How much should he sell this basket of fish to get a profit of 30%? A. GHØ530.00 B. GHg270.00 C. GHg1,300.00 D. GHg1,170.00 27. A roadside measuring 4.55 km of weeds is to be cleared by some workers. If each worker is to weed 650 m, how many workers would be employed to do the job? A. 4 B. 5

C. 6 D. 7

28. A teacher calculated the mean score of 25 learners in her class as 4. She then added five marks to the scores of each learner. What will be the new mean?

A. 4 B. 5

C. 9

D. 20

The marks scored by a group of pupils in a class test were 6, 7, 6, 9, 7, 8, 6. Use this information to answer the questions 29 and 30.

29. What is the median mark?

A. 6

B. 7

C. 8

D. 9

30. What is the mean mark?

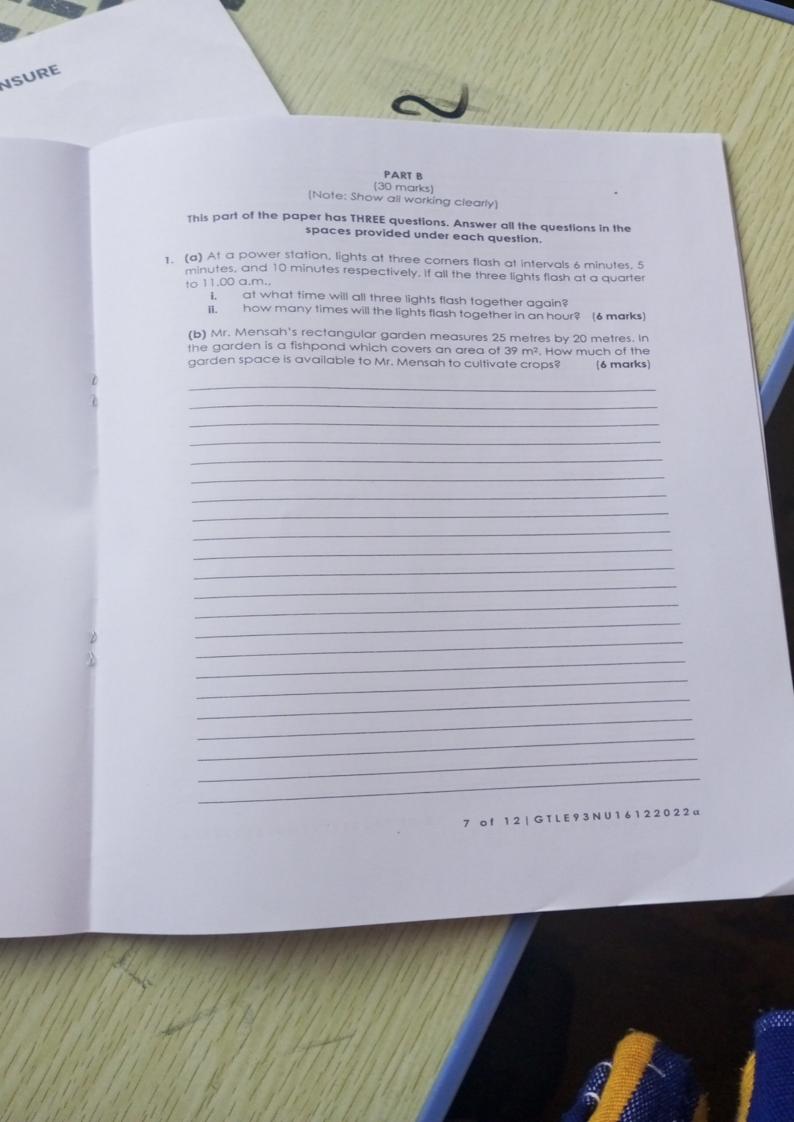
A. 6

B. 7

C. 8

D. 9

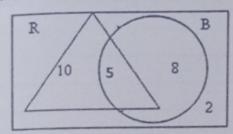
6 of 12 | GTLE93NU16122022α



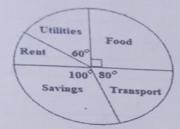
- 2. (a) A learner solved a fraction task as follows:  $\frac{1}{2} + \frac{1}{3} = \frac{3}{2} + \frac{2}{3} = \frac{5}{5}$ 
  - Describe what makes the learner's answer wrong.
  - Explain how you would solve the task correctly? II.

(6 marks)

(b) The diagram below represents information about learners' food preferences (R = Rice; B = Banku). Use the information to answer questions (b)i and (b)ii.



- How many of the learners prefer both Rice and Banku? i.
- (4 marks) How many do not prefer Rice? ii.



Not drawn to scale

- i. What fraction of the teacher's income is spent on rent? (4 marks) How much is spent on both rent and utilities? (2 marks)
- (b) A number pattern is given by:

-31 -33 -35 -37 -39 X Y Z

i. Find the sum of the numbers represented by X and Y.

(2 marks)

ii. What is the value of (Z-Y)?

(2 marks)

11 of 12 | GTLE93NU16122022 a

JC/048C LJ Ahm ame: M PTEMBE

2027 201



## NATIONAL TEACHING COUNCIL

GHANA TEACHER LICENSURE EXAMINATION (GTLE)



REG. Number	GILE/NJC/0460/22	Date: 16-12-2022
centre Name	WA	
signature	Out?	Duration: 1hr 30min

PAPER III

NUMERACY

### INSTRUCTION

This paper consists of two parts, A and B. Part A consists of 30 multiple-choice questions with four options lettered A to D. Read and evaluate all four answer choices before circling the correct or best answer. Part B consists of THREE questions to be answered on the paper.

	Score
ns	
1.	
2.	
3.	,
Total Score	
	1. 2. 3.

#### PART A (30 marks)

# Answer all the questions

This part consists of 30 multiple-choice questions with four options lettered A-D. Read and evaluate all four answer choices before circling the correct or best answer.

- 1. When twice a certain number is subtracted from four, the result is the same as twice the number. What is the number?

  - B. 2 C. 3

  - D. 4
- 2. What is the value of the underlined digit in the amount, GH $\emptyset$ 5 $\underline{\bf 5}$ 5.55?
  - A. GHg0.05
  - B. GHg0.50
  - C. GHø5.00
  - D. GH¢50.00
- 3. The following scores were obtained by ten learners in a class test: 8, 5, 6, 4, 6, 7, 9, 8, 8 and 5. What is the range of the scores?
  - A. 4
  - B. 5
  - C. 6
  - D. 8
- 4. If An object weighs 40.24kg, what is the mass of this load in grams?
  - A. 402.0g
  - B. 402.4g
  - C. 4024g
  - D. 40240g
- 5. A pool with a rectangular base 10 metres by 3 metres is 2 metres deep. What is the volume of water in the pool when it is half full?

  - B. 40 m<sup>3</sup>
  - C. 60 m<sup>3</sup>
  - D. 80 m<sup>3</sup>
- 6. A Red Cross Society in Redeemer JHS has 80 members. Given that 30 of the members are males, express the number of females as a ratio of the
  - A. 3:5
  - B. 3:8
  - C. 5:3
  - D. 8:3

2 of 12 | GTLE 93 N U 1 6 1 2 2 0 2 2 a

	7. Out of 60 learners in a class, 36 are boys. If a prefect is to be selected at random from the class, what is the probability that a girl is selected?  A. $\frac{1}{36}$ B. $\frac{2}{3}$
	C. $\frac{2}{5}$ D. $\frac{3}{5}$ 8. How many hours will it take a motorist to cover 160 kilometres travelling at an average speed of 80 km every hour?  A. 2 hours  B. 4 hours  C. 6 hours  D. 8 hours
	9. A numeracy examination paper starts at 9:45 a.m. If the documents of the paper is 2 hours 30 minutes, at what time is the examination expected to end?  A. 12.10 p.m. B. 12.15 p.m. C. 12.30 p.m.
ı	D. 12.45 p.m.  10. When 3 is added to 5 times a certain number and the sum is multiplied by  4, the result is 72. What is the number?  A. 3  B. 4  C. 5  D. 6
	D. 6  11. Given the data: 3, 4, 4, 5, which of the following statements is true?  A. mean = mode = median

at every 7 days, 14 days, and 28 days intervals respectively. If they all held their funeral rites on 12th March 2022, on which of the following dates did all the three towns hold their funeral rites on the same day? A. 2<sup>nd</sup> April 2022 B. 9th April 2022

12. Three towns, Oseikrom, Mensakrom and Mosikrom perform their funeral rites

B. mean > mode > median C. mode > mean > median D. mode > median > mean

au CA 13. Kofi spent  $\frac{1}{3}$  of his pocket money on books which costed GH¢30.00. How much was his pocket money? A. GHØ90.00 B. GHg60.00 C. GHg120.00 D. GHg100.00 14. Sumaila is twice as old as his daughter Asana. In the next five years the sum of their ages would be 85 years. How old is Asana? A. 25 years B. 30 years C. 35 years D. 55 years 15. A contingent of 75 athletes has 15 more boys than girls. If a leader is to be selected from the contingent, what is the probability that a girl is selected? B.  $\frac{2}{5}$ C.  $\frac{3}{5}$ D. 4/5 16. A square-shaped garden of side 15 metres has a gate 1.5 metres wide. If a metre of wire mesh costs GH¢10.00, how much money would be needed to buy wire to fence round the plot? A. GHØ580.00 B. GHØ585.00 C. GHg600.00 D. GHg615.00 17. A farmer wants to decongest his three cattle ranches such that each ranch has 320 cattle. If the first ranch has 486 cattle, the second ranch has 361 cattle, how many cattle are in the third ranch? B. 115 C. 124 D. 133 18. A cargo, truck can convey a load of 10,000 kg. If it is conveying some bags of cement each weighing 50 kg, which of the following expressions can be used to determine the number of cement bags it can convey at a time? B. 10,000 + 50 C. 10,000 × 50 . D. 10,000 ÷ 50 4 of 12 | GTLE 93 N U 1 6 1 2 2 0 2 2 a

whole packs were not shared?

A. 4% B. 16%

C. 25%

D. 96%

21.Ten 10 pieces of cloth are to be shared among the children in an orphanage. If each child received a half piece of the cloth, how many children received a share of the cloth?

B. 10 C. 12 D. 20

The table below gives the number of JHS learners who voted for Linda and Mercy during the election of the girls' prefect of a school. Use the information to answer questions 22 to 24.

CANDIDATE	JHS 1	JHS 2	JHS 3
Linda	23	20	37
Mercy	15	35	50

22. How many more votes did the winner get than the loser?

A. 9 B. 32

C. 20

D. 17

23. Out of those who voted in JHS 2, what fraction voted for Linda?

В.

D.  $\frac{7}{11}$ 

... ANA TEACHER LICENSURE 24. Which one of the following graphs is the most appropriate for representing the given data? A. Bar graph B. Histogram C. Line graph D. Stem and leaf plot 25. A statue is 120 metres high. A new statue built has a height which is 25% shorter than that of the old statue. What is the height of the new one? A. 95 m B. 90 m C. 75 m D. 100 m 26. A fishmonger bought a basket of fish at GH¢900.00. How much should he sell this basket of fish to get a profit of 30%? A. GHØ530.00 B. GHg270.00 C. GHg1,300.00 D. GHg1,170.00 27. A roadside measuring 4.55 km of weeds is to be cleared by some workers. If each worker is to weed 650 m, how many workers would be employed to do the job? A. 4 B. 5

C. 6 D. 7

28. A teacher calculated the mean score of 25 learners in her class as 4. She then added five marks to the scores of each learner. What will be the new mean?

A. 4 B. 5

C. 9

D. 20

The marks scored by a group of pupils in a class test were 6, 7, 6, 9, 7, 8, 6. Use this information to answer the questions 29 and 30.

29. What is the median mark?

A. 6

B. 7

C. 8

D. 9

30. What is the mean mark?

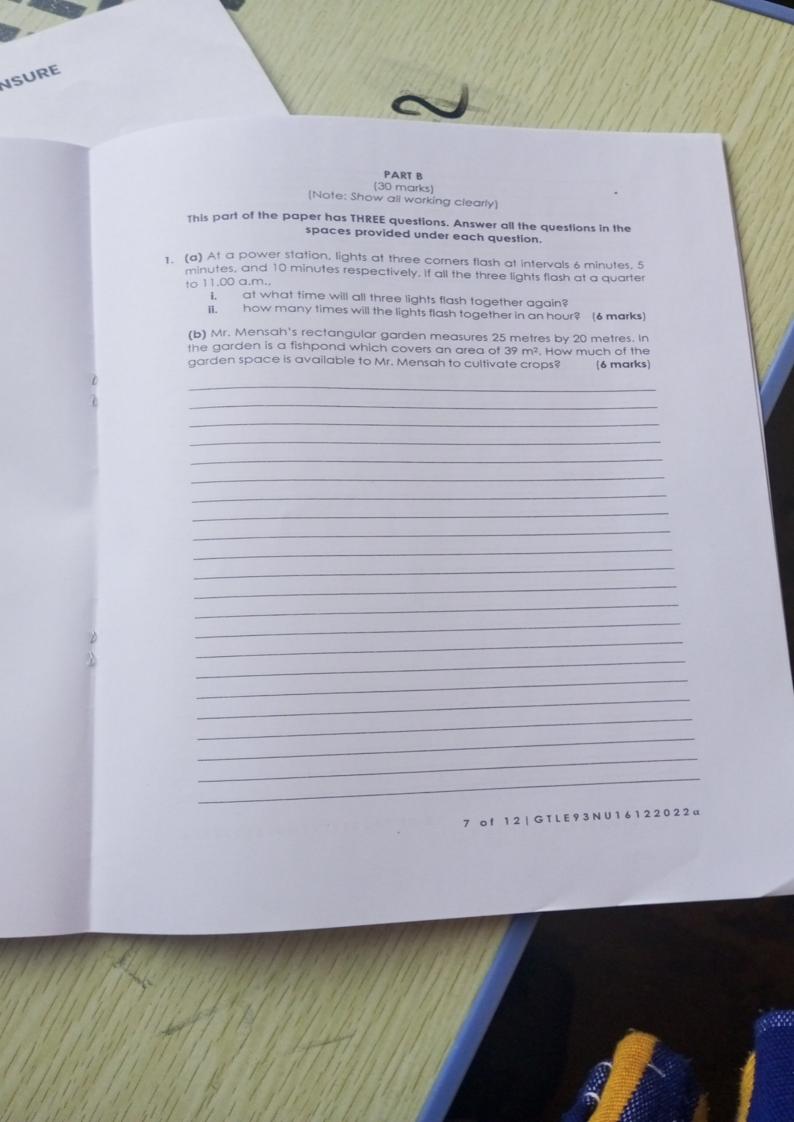
A. 6

B. 7

C. 8

D. 9

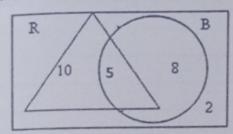
6 of 12 | GTLE93NU16122022α



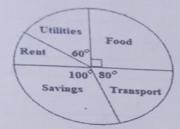
- 2. (a) A learner solved a fraction task as follows:  $\frac{1}{2} + \frac{1}{3} = \frac{3}{2} + \frac{2}{3} = \frac{5}{5}$ 
  - Describe what makes the learner's answer wrong.
  - Explain how you would solve the task correctly? II.

(6 marks)

(b) The diagram below represents information about learners' food preferences (R = Rice; B = Banku). Use the information to answer questions (b)i and (b)ii.



- How many of the learners prefer both Rice and Banku? i.
- (4 marks) How many do not prefer Rice? ii.



Not drawn to scale

- i. What fraction of the teacher's income is spent on rent? (4 marks) How much is spent on both rent and utilities? (2 marks)
- (b) A number pattern is given by:

-31 -33 -35 -37 -39 X Y Z

i. Find the sum of the numbers represented by X and Y.

(2 marks)

ii. What is the value of (Z-Y)?

(2 marks)

11 of 12 | GTLE93NU16122022 a