UMMUL-QURA HIGH SCHC

Arowona Bus-Stop, Amuloko, Ibadan, Oyo State Second Term Examination, 2020/2021 Academic Session.

Subject: Mathematics

Class: JSS 1

Time: 2:30 hours

Instructions: Answer all questions in Section A and three in Section B.

PAPER I & II [Objective and Theory]

SECTION A: OBJECTIVE (40 marks).

- 1. The Egyptian symbol for 10 is ----.
 - A. ^.
 - B. I.
 - C. v.
 - D. 00
- 2. O O O III is written as ----.
 - A. 30
 - B. 33
 - C. 23
 - D. 32
- 3. The Roman numerals for 150 is ----.
 - A. CL
 - B. LC
 - C. CD
 - D. XLC
- 4. What numbers do these Roman numerals represents MMCMLIV?
 - A. 2954
 - B. 2864
 - C. 2649
 - D. 3954
- 5. What is the place value of 6 in 7684?
 - A. Thousand
 - B. Hundred
 - C. Ten
 - D. Unit
- 6. 3 452 759 is written in word as ----.
 - A. three hundred and fifty-five million five hundred and twentyseven thousand and fifty-nine

- B. Three million four hundred and fifty-nine
- C. Three billion four million five hundred and two thousand seven hundred and fifty-nine
- D. Three trillion four billion five million seven thousand five hundred and nine
- 7. 5803709, 5804709, ----, 5806709.
 - A. 5805709
 - B. 5807709
 - C. 680709
 - D. 5815709
- 8. $\frac{1}{3}, \frac{2}{6}, \dots, \dots$
- 9. Which is the equivalent to $\frac{3}{5}$?
- 10. Convert $\frac{19}{5}$ to mixed number.

- A. $5\frac{3}{5}$
- B. $3\frac{4}{5}$
- c. $5\frac{5}{4}$
- D. $\frac{4}{19}$.
- 11. $5\frac{7}{8}$ is written as ---- in improper

fraction.

- A. $\frac{47}{8}$.
- B. $\frac{7}{8}$
- C. $\frac{40}{87}$.
- D. $\frac{35}{7}$.
- 12. Reduce $\frac{20}{7}$ to its lowest term.
 - A. $\frac{7}{2}$
 - B. $\frac{2}{70}$.
 - C. $\frac{\frac{70}{20}}{7}$.
 - D. $\frac{2}{7}$.
- 13. Fill in the missing fraction. $\frac{2600}{7800} = \frac{26}{100} = \frac{26}{100}$

$$\frac{1}{4} = \frac{1}{4}$$

- A. 78, 13, 1
- B. 13, 78, 11
- C. 11, 1, 13
- D. 78, 11, 13
- 14. Express 36 as product of its prime factors.
 - A. 2x2x3x3
 - B. 2x3x3x3
 - C. 3x3x3x3
 - D. 2x3x4x5
- 15. Express 210 as a product of its prime in index form.
 - A. $2x2x3^3x5^2$
 - B. 2x2x3x5
 - C. $2^2 \times 3^3 \times 5^2$

- D. $2^2 \times 3^2 \times 5^2$
- 16. The HCF of 15 and 40 is ----.
 - A. 5
 - B. 3
 - C. 15
 - D. 10
- 17. The HCF of 42, 56 and 84 is ----.
 - A. 12
 - B. 13
 - C. 14
 - D. 15
- 18. The LCM of 24, 30 and 36 is ---.
 - A. 360
 - B. 260
 - C. 306
 - D. 420
- 19. Find the difference between the hcf of 60 and 63
 - A. 1257
 - B. 131
 - C. 127
 - D. 217
- 20.
- A. 42
- B. 32
- C. 24
- D. 35
- 21. Convert to base two numerals 324ten.
 - A. 101000100₂
 - B. 100100011₂
 - C. 0011000111₂
 - D. 101001100₂
- 22. Convert to base ten 10111102
 - A. 49
 - B. 84
 - C. 94
 - D. 97
- 23. $54\frac{3}{8}$ ten is converted to base two as ----.
 - A. 110110.011₂
 - B. 110110011₂

- C. 100110.011₂
- D. 111000.110₂
- 24. 0.0011 is converted to base ten as ----.
 - A. $\frac{3}{8}$ ten.
 - B.
 - $\frac{3}{7}$ ten. $\frac{7}{8}$ ten.
 - D. $\frac{1}{8}$ ten.
- 25. Convert 3401_{five} to base four.
 - A. 13130₄
 - B. 13301₄
 - C. 11330₄
 - D. 31310₄
- 26. Evaluate 10 + (-6).
 - A. 4
 - B. -4
 - C. 10
 - D. -16



- 27. The above number line represents ----.
 - A. -5 (-5)
 - B. -5 + 9
 - C. 5 + 5
- D. 5 + 3-10 -8 -6 -4 -2 0 2 4 6 8 10 12
- 28. The number line represents ----.
 - A. 10 + 6
 - B. 6 10
 - C. 10 + -6
 - D. -10 6
- 29. Round off 67844 to the nearest
 - hundred.
 - A. 67000
 - B. 67800
 - C. 67840
 - D. 68000
- 30. Approximate 1947.6 to the nearest ten.

- A. 1950
- B. 1948
- C. 2000
- D. 1900
- 31. Round of 0.03567 to the nearest hundredth.
 - A. 0.04
 - B. 0.036
 - C. 0.1
 - D. 0.04
- 32. What is the approximate and exact value 13 + 27?
 - A. 40 and 40
 - B. 40 and 39
 - C. 40 and 0
 - D. 40 and 20
- 33. The difference between exact and approximate value of 207 + 344 is ---.
 - A. 57
 - B. 50
 - C. 580
 - D. 551
- 34. The cost of a small refrigerator is ₩17415. What is the approximate cost of the refrigerator bro the nearest thousand?
 - A. 8700
 - B. 7800
 - C. 8710
 - D. 87100
- 35. Evaluate 36% of 2090.
 - A. 752.4
 - B. 7524
 - C. 75
 - D. 724.5
- 36. 4 hours equal ---- minutes.
 - A. 240 hours
 - B. 2400 hours
 - C. 240 minutes
 - D. 2400 minutes
- 37. Evaluate ₩ 367.50 + ₩ 86.46 +₩ 97.40.

- A. ₩ 551.36
- B. ₩ 55136
- C. ₩ 55.136
- D. 55136k
- 38. 2 billion in figure is ---.
 - A. 2 000 0000
 - B. 3 000 000 000
 - C. 20 000 000 0000
 - D. 2 000 000 000 000
- 39. Write five billion, four million, three

thousand and two hundred.

- A. 5004 003 200
- B. 54:04 004 003 002
- C. 500 400 300 200
- D. 5 004 300 200
- 40. 6132900, ---- 6132700 ----.
 - A. 613280, 6132600
 - B. 6132500, 6132400
 - C. 6132100
 - D. 6132600

SECTION B: THEORY (40 marks).

Instructions: Answer three questions in ALL.

- 1a. Convert the following to base two;
 - i. 1000 ten
 - ii. $20\frac{3}{4}$ ten
 - iii. 23 ten
- 1b. Convert to base ten;
 - i. 11011₂
 - ii. 111010001101₂
- 2. Evaluate the following using g number line;
 - i. 8+9
 - ii. 10 + (-6)
 - iii. 12 (-5)
 - iv. -4 + (-3)
- 3a. Round off 2.3554 to the nearest;
 - i. tenth
 - ii. thousandth
 - iii. hundredth
- 3b. What is the approximate and exact value of the following;
 - i. 3.753 + 17.258
 - ii. 87 + 41
 - iii. $2\frac{1}{2} + 5\frac{1}{6}$

- iv. $8\frac{7}{8} 3\frac{1}{4}$
- v. 625 257

- 4a. Find the HCF of;
 - i. 24, 30 and 36
 - ii. 21, 42 and 63
- 4b. What is the difference between the LCM and HCF of 126 and 300?