**UPDATE GHANA NETWORK**

END OF 2ND SEMESTER EXAMS

MATHS JHS 1

1. Simplify

A) -6a+2b B. 6b +a C. -2b + a D. 6a + b

2. What is the place value of the underlined digit 741**8**920 A. hundred B. thousand C. million D. ten thousand?

3. A set which has one element is called A. unit set B. infinite set C. empty set D. disjoint set

4. The distance from a centre of a circle to any point of the circumference is called A. radius B. sector C. diameter D. segment

5. How many faces have a cone A. 2 B. 3 C. 4 D. 5

6. Which of the following is not a prime number? A. 1 B. 2 C. 23 D. 5

7. State the property used in the operation a(b + c) =ab +ac A. associativeB. commutative C. distributive D. universal

8. How many vertices has a cuboid A. 6 B. 7 C. 8 D. 14

9. Find the median of the number **7, 2, 5, 6, 8, 8,13** A. 7 B. 6 C. 8 D. 5

10. A boy scored in a mathematics text. Express his score as a percentage A. 17% B. 68% C. 85% D. 65%

11. What is the perimeter of a rectangle with length 7cm and with 5cm A. 35cmB. 24cm C. 19cm D. 17cm

12. What is the name of the figure below

A. equilateral triangle B. rectangle triangle C. scalene triangle D. isosceles triangle

13. Change 0.32 to fraction A. B.

C. D.

14. The most frequently occurring value in a set of data is called………… A. mode B. median C. mean D. average

15. Convert 25% as common fraction A. B.

C. D.

16. Add 2,428 and 5,702 A. 8230 B. 8130 C. 7241 D. 3521

17. Find the area of the figure below

3cm

9cm

A. 27cm2 B. 21cm2 C. 28cm2 D. 26cm2

18. Which of the following numbers have only two factors A. 9 B. 31 C. 15 D. 22

19. Round 724 to the nearest hundred A. 700 B. 800 C. 720 D. 730

20. Simplify 1013÷ 107 A. 103B. 106C. 1020D. 1017

21. Write the number name for **5,234** A. five thousand two hundred and thirty-four B. fifty two thousand, two hundred and three C. five thousand, two hundred and four D. five million , two hundred and thirty-four

22. What is the HCF of 24 and 40 A. 10 B. 6 C. 8 D. 12

23. Simplify**14pq** × **q**  A. 14pq2 B. 14p2q C. 14pq D. 14p2q2

24. The distance from one point on the circle to anotherpoint on the circle without passing through the centre is called A. radius B. chord C. diameterD. sector

25. Which of the following is an infinite set? A. {5,7,………..1001} B. {5,9,15,19} C. {17,19,21,23,…} D. {2,4,…62,64,…122}

26. write five hundred and five million, five hundred and five in figures A. 55550000 B. 5055050000 C. 505000505 D. 505005005

27. Simplify **32**2×**43** A. 218 B. 216 C. 210 D. 26

28. Which of the following is arranged in descending order? A. -32, -2, 6, 21 B. -2, -32, 6, 21 C. 21,6, -32, -2 D. 21,6,-2,-32.

29.

A. 2 B. 4 C. 6 D. 8

30. Find the product of **17 and 121.** A. 968 B. 1751 C. 2057 D. 8,591

31. Express as a percentage A. 20% B. 25% C. 40% D. 80%

**Use the information below to answer ?questions 32 and 33**

**The following are the marks obtained by pupils in a test; *2,3,5,2,3,4,2,3,5,3***

32. What is the mode? A. 2 B. 3 C. 4 D. 5

33. Calculate the mean A. 3.0 B. 3.2 C. 4.0 D. 4.2

34. Find the set of the integers within the interval A. {2,1,2} B. {2,1,0} C. {-1,0,1} D. {1,1,2}

35. Which of the following statements is true? A. B. C. D.

36. What is the name of the polygon below

A. Pentagon B. octagon C. hexagon D. quadrilateral

37. Which of the following is the set of **prime factors of 12**? A. {1,3} B. {2,3} C. {2,4,6,12} D. {2,3,4,6}

38. The value of an obtuse angle lies between A. 0° and 90° B. 90° and 180° C. 90° and 270° D. 180° and 360°

39. How many days are in a year? A. 365 B. 366 C. 356 D. 400

40. Expand the expression A. 6a + 2b B. 5a +4b C. 6a +4b D. 10ab

**SECTION B**

**Answer any three(3) questions**

Q1

a. Express the following decimals as fractions in their simplest form i) 0.45

ii)0.75

iii) 0.8

2a) If X={natural numbers up to 15}.

Form these sets from set X

ii) M={even numbers between 1 and 10}

iii) N={prime numbers less than 10}

iv) M.

3. A die is thrown 20 times with the following results

***6,1,6,5,4,3,3,6,1,6,***

***4,1,2,5,6,5,3,6,2,1***

a)Make a frequency table for the above results

(b) Find

i)The mean

ii) The median

iii) The mode from the table

4c. Convert the following fractions to percentages

ii)

iii)

Q5

Simplify

a) **14pq** × **q**

c)**32**2×**43**