**THE INTERNATIONAL SCHOOL**

**UNIVERSITY OF IBADAN, IBADAN, OYO STATE,**

**ENTRANCE EXAMINATION, 2020/2021 SESSION**

**TIME ALLOWED: 1 Hour 30 Minutes**

**MATHEMATICS**

1. Simplify: 1½ - ÷

a) 4 ½ b) 1 c) d)

2. When a tank is ¼ full, it contains 80 litres of water. What will it contains when it is 3/8 full?

a) 180 litres b) 175 litres c) 170 litres d) 120 litres

3. Bori spent of his pocket money on food and ½ of the remainder on drink what fraction of his money is left?

a) b) c) d)

4. Simplify: 6P ÷ 3 - 4P

a) 2P b) -3P c) 6P d) -2P

5. During COVID-19, a nose mask costs N 120.00. How many nose masks can one buy from N1000.00?

a) 2 b) 8 c) 9 d) 10

6. Two taps running at the same rate can fill a tank in 45 minutes. How long will it take one tap to fill the same tank

a) 90 mins b) 80 mins c) 60 mins d) 22½ mins

7. 10 students have enough food for six days. How long will the same food last 15 students, if they eat at the same rate

a) 25 days b) 9 days c) 8 days d) 4 days

8. Which of the following is not parts of a circle?

a) Radius b) Arc c) Centre d) Diagonal

9. The perimeter of a circle is 66cm. Find its radius (Take ).

a) 69.1cm b) 33.0cm c) 21.0cm d) 10.5cm

10. The shaded portion in the diagram is called

a) Chord b) radius c) segment d) diameter

11. Simplify 25pq6 5P2q4

a) 5q4 b) 5p2 c) 5q2 d)

12. In an examination, a girl has to spend x minutes in part A and 25 minutes in part B of the questions. How long is the examination?

a) b) c) 25x minutes d) (25 + x) minutes

13. If = , find the number in the box

a) 9x b) 3z c) 3x d) 2x

14. If 5 : 14 is expressed in the form 1 : P, find the value of P.

a) 3.8 b) 2.8 c) 2.4 d) 1.8

15. What percentage of N1.50 is left after giving out 105K?

a) 95% b) 55% c) 45% d) 30%

16. How many centimeter squares are there in a rectangle of 23cm by 15cm?

a) 354 b) 345 c) 254 d) 245

17. A plane figure bounded by six sides is called \_\_\_\_\_\_\_\_

a) Pentagon b) hexagon c) quadrilateral d) decagon

18. If I multiply the sum of 632 and 1803 by zero, what will be my result?

a) 2345 b) 1435 c) 2345 d) 0

19. A man id four times as old as his son, if the difference between their ages is 21, what is the son’s age?

a) 7 years b) 9 years c) 21 years d) 28 years

20. Find the prime factors of 28.

a) 1,2,4,7,28 b) 2,4,7 c) 2,7 d) 4,7

21. If the ratio of three angles of a triangle is 2:3:4, find the size of the largest angle.

a) 1000 b) 800 c) 700 d) 600

22. What is the place value of 4 in 25.6741?

a) Thousandths b) Hundredths c) Tenths d) Hundreds

23. Ade left school for home at 12.16pm and arrived home at 3.08pm. How long did it take him to get home?

a) 68 min. b) 124 min. c) 152 min. d) 172 min

24. Find the value of +

a) 0 b) 12 c) 13 d) 25

25. Subtract 19.999 from 33.333

a) 13.334 b) 13.134 c) 13.434 d) 13.234

26. Correct 89.6162 to two decimal places

a) 89.60 b) 89.61 c) 89.62 d) 90.00

27. Two angles of a triangle are equal; if the third angle is 500, what is the size of each of the equal angles?

a) 500 b) 600 c) 650 d 750

28. If = 130, find

a) 1.6 b) 1.3 c) 0.13 d) 0.013

29. The area of a triangle is 72cm2, given that the base is 8cm, find the height of the triangle.

a) 18cm b) 9cm c) 7cm d) 6cm

30. Find the value of 132 + 122 - 112

a) 28 b) 192 c) 129 d) 121

31. Find the least number that can be divided by 9, 7 and 6 leaving a reminder of 1 in each case.

a) 63 b) 127 c) 164 d) 378

32. Find the sum of prime numbers between 4 and 20

a) 6 b) 12 c) 48 d) 72

33. Find the ratio of H.C.F. and L.C.M of 14, 35 and 70.

a) 1:5 b) 1:7 c) 1:10 d) 1:3

34. I have N250, I gave Bunmi N90 and Bola N60. What fraction of the money have I given out?

a) ¾ b) 2/5  c) 1/5 d) 3/5

35. Find the value of (2/3 of N 60.00) - (1/4 of N 100.00)

a) N 40.00 b) N 30.00 c) N 25.00 d) N 15.00

36. A man paid N4500.00 for 3 tickets for a cinema show. How much would he have to pay for 4 such tickets?

a) N 1200.00 b) N 5200.00 c) N 5600.00 d) N 6000.00

37. A man paid N135.00 for 3 minutes to make a phone call. How much he have to pay for a 7 minutes call?

a) N 180.00 b) N 235.00 c) N 315.00 d) N 187.00

38. Simplify 2(x + 5y) + 3(2x – 3y).

a) 8x + y b) 2x + 5y c) x + 10y d) x + 5y

39. In a school, there are twice as many boys as there are girls. If the school population is 540, how many boys are in the school?

a) 180 b) 280 c) 360 d) 420

40. If 5x = 25, what is the value of 2x

a) 5 b) 10 c) 20 d) 25

41. If x2 – 36 = 64, find the value of x.

a) 4 b) 6 c) 8 d) 10

42. Ife is older than Feranmi, Tolu is older than Ife, and Feranmi is older than Fikayo. Who is the oldest?

a) Ife b) Tolu c) Feranmi d) Fikayo

43. What is the difference between 1% of 100 and 100% of 1?

a) 101 b) 99 c) 1 d) 0

44. If a : b = 2 : 3, what is b when a is 18?

a) 24 b) 27 c) 12 d) 13.5

45. John, Joy and Jimmy respectively shared a fortune in the ratio 2:3:4, which of them got 1/3 of the fortune?

a) John b) Joy c) Jimmy (d John & Jimmy

46. Tom and Henry share 102 sweets so that Henry has 5 times as many as Tom. How many does Tom get?

a) 85 b) 58 c) 17 d) 71

47. Find the number with the Roman numeral MCDLXXI.

a) 1471 b) 1418 c) 1571 d) 1371

48. The simple interest on N20,000.00 for 2 years is N2,000.00. Find the percentage rate per annum at which the interest is charged?

a) 5% b) 10% c) 8% d) 15%

49. A trader gives a 5% discount for cash payments. Find the discount if the cash price of a bill is N3,040.00?

a) N 304.00 b) N 150.00 c) N 125.00 d) N 152.00

50. The perimeter of a square board is 160cm. Calculate its area

a) 40cm2 b) 160cm2 c) 400cm2 d) 1600cm2

51. Find the simple interest on N60,000.00 for 2 ½ years at 5% per annum

a) N 7,500.00 b) N 7,720.00 c) N 5,817 d) N 9,702.00

52. Find the value of x in the triangle below.

13cm

5cm

x

a) 3cm b) 6.5cm c) 10cm d) 12cm

53. Which is the biggest of the fractions: , , , ?

a) b) c) d)

D

A

10cm

E

F

C

B

3cm

G

8cm

4cm

54. In the diagram, ABCD and EFCG are rectangles. DG = 3cm and BF = 4cm. Find the area of the unshaded portion?

a) 68cm2 b) 64cm2 c) 56cm2 d) 50cm2

55. Which of the following is the number of cm3 in 1m3

a) 100 b) 1000 c) 100,000 d) 1,000,000

56. A trader gains N 4,000.00 on a sale which was equivalent to 8% profit. What was the cost price?

a) N 54,000.00 b) N 50,000.00 c) N 500.00 d) N 320.00

57. A cuboid with volume 64cm3 has a height of 8cm. What is its base area?

a) 4cm2 b) 8cm2 c) 16cm2 d) 32cm2

58. A book which cost N300.00 was sold for N240.00. What was the loss percentage?

a) 20% b) 15% c) 12% d) 6%

59. The capacity of a water tank is 1,800 litres. If the tank is in the form of a cuboid with base 600cm by 150cm, find the height of the tank. (1 litre = 1,000cm3).

a) 2cm b) 20cm c) 200cm d) 2,000cm

60. Evaluate

a) 7 b) 8 c) 10 d) 12

**English Language**

**COMPREHENSION**

***Read the passage carefully and answer the questions below.***

The preservation of tropical rain forests is vital to you because so many of the domestic and commercial plants that you rely on depend, in a way, on their wilder ancestors that still thrive in such forests. These wild strains are used at times to breed newer strains that are more resistant to diseases and pests. Also, researchers are constantly deriving useful products from tropical forests. A large proportion of the medicines now in use were developed from tropical plants. You can imagine if these medicines were not available, human beings would die in thousands, if not in millions. Thus, the diversity of life in tropical rain forests is often likened to a living library but it is one in which most of the ‘books’ have yet to be opened.

**QUESTIONS**

61. According to the passage, man relies on

a) Medicine

b) Wilder ancestors

c) DOMESTIC AND COMMERCIAL PLANTS

d) Tropical rain forest

62. Which of the following is true according to the passage?

a) A GOOD QUANTITY OF MEDICINES WERE DEVELOPED FROM TROPICAL PLANTS

b) All the medicines now in use were developed from tropical plants

c) Researchers are yet to develop any medicine from tropical plants

d) Researchers sometimes derive useful products from tropical forests

63) The expression ‘… if these medicines were not available, humans would die…’ means that

a) These medicines are not available

b) Man is dying because these medicines are available

c) These medicines are available, hence man is not dying at all

d) THESE MEDICINES ARE AVAILABLE, HENCE HUMAN BEINGS ARE NOT DYING IN LARGE NUMBERS

64. What is the diversity of life in the tropical rain forests likened to?

a) Books b) A living school

c) A LIVING LIBRARY d) None of the above

65. ‘newer strains’ in the passage refers to \_\_\_\_\_.

a) Medicine b) PLANTS

c) Disease d) Pest

***From the options given, choose the word that is nearest in meaning to the underlined word.***

66. Young children seldom engage in gainful employment.

a) paying b) REWARDING

c) prevailing d) accredited

67. If he declines the offer, it would be better for him.

a) REJECTS b) hates

c) accepts d) denies

68. Rosa Parks experienced racism as a young child.

a) culture b) DISCRIMINATION

c) kindness d) fear

69. The width of the hall is about 20 metres.

a) BREADTH b) length

c) height d) size

70. I cannot accommodate any misbehavior from my children.

a) ENTERTAIN b) host

c) manage d) take

***In each of the following sentences, choose the appropriate answer.***

71. Have you ever \_\_\_\_\_\_ on that chair?

a) sit b) sitting

c) SAT d) seat

72. He \_\_\_\_\_\_ on the floor yesterday.

a) LAY b) lain

c) lied d) lie

73. As her examination approached, Bimbo got cold feet. This mean that Bimbo \_\_\_.

a) had her feet soaked in cold water

b) became sick

c) BECAME NERVOUS

d) ran away from the house

74. The match \_\_\_\_\_ before the governor arrived.

a) HAD ENDED b) had finished

c) is ended d) is finished

75. The principal praised Olamide and \_\_\_\_\_\_\_ for a job well done.

a) I b) ME

c) mine d) my

76. The sentence “She will take the children home” in passive voice becomes “The children …”

a) are taken home by her b) will be take home by her

c) was taken home by her d) WILL BE TAKEN HOME BY HER

77. He has a lot of money \_\_\_\_\_\_\_\_?

a) hasn’t he b) don’t he

c) DOESN’T HE d) isn’t he

78. The plane \_\_\_\_\_\_\_ on the runway before taking off.

a) glides b) flies

c) TAXIS d) moves

79. The sailor controls the ship with the \_\_\_\_\_\_\_\_.

a) HELM b) steering

c) anchor d) sail

80. Only one of his friends \_\_\_\_\_\_\_\_ visited the zoological garden before him.

a) HAS b) been

c) are d) have

***Choose the option that is nearly opposite in meaning to the underlined word in each sentence.***

81. The girl fell into a shallow river.

a) wide b) narrow

c) DEEP d) large

82. More farmers should cultivate pineapple.

a) plant b) HARVEST

c) sell d) produce

83. What is so spectacular about the song you just sang.

a) ORDINARY b) bad

c) inviting d) good

84. She is deficient in English Language.

a) neutral b) sufficient

c) GOOD d) poor

85. I like having dealings with kind people.

a) nice b) gentle

c) CRUEL d) caring

***From the options lettered A – D, choose the word that is correctly spelt.***

86. a) Acomodation b) Acommodation c) Accomodation d) ACCOMMODATION

87. a) PRIVILEGE b) priviledge c) privledge d) privillege

88 a) cantin b) CANTEEN c) canten d) camteen

89. a) mentenance b) MAINTENANCE c) maintenence d) maintainance

90. a) AMMUNITION b) ammunitton c) amunition d) ammunittion

**CURRENT AFFAIRS**

91. Who is the current Senate President in Nigeria?

a) Hon. Ahmed Ibrahim Lawan b) Hon. Abubakar Bukola Saraki

c) Hon. Femi Otedola d) Hon. Femi Gbajabiamila

92. How many Local Governments are in Nigeria?

a) 174 b) 447

c) 477 d) 744

93. What is the capital city of Cross Rivers State?

a) Ikeja b) Calabar

c) Uyo d) Port Harcourt

94. Whose picture is on N200 Nigeria currency note?

a) Chief Obafemi Awolow b) Sir Ahmadu Bello

c) Sir Abubakar Tafawa Balewa d) Dr. Nnamdi Azikwe

95. How many states are in Nigeria?

a) 36 b) 37

c) 38 d) 40

96. The Corona virus disease (COVID -19) originated in a city called \_\_\_\_\_\_\_

a) Wuhan b) Conakry

c) Shanghai d) Beijing

97. How many colours are in the Nigerian flag?

a) 4 b) 3

c) 2 d) 1

98. How old is the International School, U. I. this year?

a) 60 years b) 59 years

c) 58 years d) 57 years

99. Democracy day in Nigeria is now celebrated on \_\_\_\_\_

a) 29th of March b) 12th of May

c) 29th of May d) 12th of June

100. Nigeria capital was moved to Abuja from which city?

a) Port Harcourt b) Lagos

c) Calabar d) Ibadan