**THE INTERNATIONAL SCHOOL**

**UNIVERSITY OF IBADAN**

**ENTRANCE EXAMINATION, 2021/2022 SESSION**

**TIME: 1 HOUR 30 MINUTES**

1. Express the sum of 71 and 106 in Roman numbers

a) CVI b) CLXX c) CLXXXII d) CLXXVII

2. In a basket of 250 mangoes, 90 are bad. What percentage is good?

a) 64% b) 50% c) 34% d) 25%

3. A sum of N6,300.00 was shared between James and John in the ratio 3:4. Find John’s share

a) N5,600 b) N4,700 c) N3,600 d) N4,900

4. A sales girl gets a commission of 8% of the value of the articles she sells. Find her commission for selling an article at N25,000.00

a) N2,000 b) N5,000 c) N23,000 d) N27,000

5. Increase 448 by 25%.

a) 102 b) 112 c) 336 d) 560

6. A buyer paid N9,000 for an article over which he enjoyed 10% cash discount. How much was the marked price?

a) N8,100 b) N9,000 c) N10,000 d) N11,000

7. Express 0.625 as a percentage.

a) 62.5% b) 6.25% c) 0.625% d) 0.0625%

8. Ade bought a mobile phone for N25,000 and sold it for N20,000. What was his percentage loss?

a) 50% b) 30% c) 20% d) 10%

9. Simplify 40% of

a) b) c) 30 d) 25

10. What is the cost price of a good sold for N25,000 at the profit of 25%?

a) N32,000 b) N20,000 c) N18,000 d) N15,000

11. The ratio of Olu’s age to her mother is 5:7. What is Olu’s age if her mother is 63 years?

a) 12 years b) 35 years c) 45 years d) 52 years

12. The number of pupils in a school increased from 1500 to 1650, what is the percentage increase?

a) 10% b) 15% c) 20% d) 25%

13. Find the amount of the discount paid if a discount of 10% is given on an article marked N2,700.

a) N27.00 b) N270.00 c) 290.00 d) N300.00

14. Find the difference between XCI and LXVI.

a) XXV b) XLV c) LXV d) XXXV

15. Find the marked price of an article if the N75.00 commission is allowed is 5%.

a) N1,500 b) N1,425 c) N5,500 d) N7,500

16. There are 180 people working in a company, 80 of which are women. What is the ratio of men to women?

a) 9:5 b) 5:9 c) 4:5 d) 5:4

17 Express in its lowest term

a) b) c) d)

18. By how much is 2 greater than 1?

a) b) c) d)

19. Aminat spent of her pocket money on sweets and ½ of the remained on snacks. What fraction of her money is left?

a) b) c) d)

20. What is the value of angle marked **m** in the figure above?

500

m

1100

a) 1000 b) 900 c) 700 d) 600

21. What is the name given to the marked angles?

a) Alternate angles b) vertical opposite angles

c) corresponding angles d) interior angles

22. Calculate the length of the unknown side marked x in triangle below

13p

5p

a) 4p b) 6p c) 8p d) 12p

x

2

2

2

2

2

2

23. How many squares are there in the diagram above?

a) 6 b) 7 c) 8 d) 10

24. Find the total area of the four walls of a room 5m long, 4m wide and 3m high

a) 240m2 b) 80m2 c) 60m2 d) 54m2

25. A room is 12m long, 7m wide and 4m high. Find the area of the ceiling

a) 152m2 b) 84m2 c) 48m2 d) 28m2

26. A bicycle wheel has a radius of 28cm. How far does it travel in four complete turns?

(Take )

a) 176cm b) 704cm c) 824cm d) 826cm

27. If the area of the diagram below is 42cm2, find the value of y

a) 4cm b) 5cm c) 6cm d) 7cm

y

14cm

28. The perimeter of any quadrilateral is

a) two times any of the sides b) four times any of the sides

c) the sum of the opposit4e sides d) the sum of all the sides

29. A rectangular tank is 4m long and 5m wide. If it contains 120m3 of water how deep is the tank?

a) 5m b) 6m c) 8m d) 10m

30. If the volume of a cube is 27m3, find the length of one of its sides.

a) 3m b) 6m c) 9m d) 18m

31. How many blocks each 9cm by 6cm by 5cm can be found in a box 63cm by 30cm by 20cm?

a) 120 b) 140 c) 150 d) 160

32. What is the average of 12, 18, 20, 23, 31 and 40?

a) 14 b) 18 c) 22 d) 24

33. What is the range of the scores 12, 18, 20, 23, 31 and 40?

a) 28 b) 20 c) 18 d) 12

34. A pie chart is like a/an ……………… in shape

a) circle b) rectangle c) square d) trapezium

35. What is the simple interest N800,000 for 4 years at the rate of 5%

a) N20,000 b) N170,000 c) N160,000 d) N200,000

36. A bank pays 15% interest and another 12% interest per annum. A man deposited N10,000 in each bank on the same day. What is the difference in interests he will get from the banks at the end of 1 year

a) N300 b) N3,000 c) N3,200 d) N15,000

37. If Ade run 8km in 36 minutes and the school is 6km from his home, how long does he take to run to school?

a) 4 ½ mins b) 3 mins c) 27 mins d) 30 mins

38. If 3 men do a piece of work in 7 days, how long will 7 men take, working at the same rate?

a) 21 days b) 7 days c) 3 days d) 49 days

39. If a running tap fills 5/7 of a bucket in 35 seconds, then the whole bucket is filled in

a) 49 seconds b) 35 seconds c) 40 seconds d) 70 seconds

40. Simplify 8a + 6 – (9b – 3a)

a) 2b + 6 b) 2b – 6 c) 11a – 9b + 6 d) 5a – 9b + 6

41. A car travelled at an average speed of 48km/h. How long will it take the car to travel a distance of 144km

a) 192 hrs b) 96 hrs c) 6 hrs d) 3 hrs

42. Simplify 6x – 2y + 5y – 3x

a) 4x + 2y b) 3x – 7y c) -3x – 7y d) 3x + 3y

43. A chair costs Nx and a table costs Ny more than a chair. What is the cost of 2 chairs and 3 tables.

a) 2x + 5y b) 3x + 4y c) 5x + 2y d) 5x + 3y

44. Two consecutive whole numbers are such that twice the smaller added to the greater make a total of 52. Find the smaller number.

a) 17 b) 18 c) 25 d) 26

45. A car travels 72km on 8 litres of petrol. How far will it travel on 12 litres?

a) 117km b) 108km c) 85km d) 50km

46. Find the product of LCM and HCF of 5 and 30.

a) 150 b) 90 c) 60 d) 45

47. Find the smallest number that will give remainder 2 when divided by 4, 6 and 9

a) 58 b) 54 c) 38 d) 26

48. Find the least number which is divisible by 6, 8 and 9 without any remainder

a) 72 b) 54 c) 48 d) 36

49. What are the prime factors of 60.

a) 1, 2, 7 b) 2, 5, 7 c) 1, 3, 5

50. The sum of two numbers is 50. The second number is four times the first. Find the smaller number

a) 25 b) 20 c) 15 d) 10

51. Simplify 3(5y – 2x) - 7(4y – x)

a) 13x + 43y b) -13x + 13y c) x – 13y d) 5x – 13y

52. Round off 0.009238 to 3 significant figures

a) 0.01 b) 0.009 c) 0.00923 d) 0.00924

53. If a = , find the value of a.

a) 48 b) 36 c) 24 d) 16

54. What is the square root of 5 ?

a) b) 2 c) 2 d) 5

55. How many perfect squares are there in the set {1, 3, 4, 6, 9,64, 67}

a) 1 b) 2 c) 3 d) 4

56. What is the value of ?

a) b) c) d)

57. What is the place value of 5 in the number 249.056?

a) five tenths b) five hundredths c) five d) fifty

58. What is 0.002 568 correct to 3 decimal places?

a) 0.00 b) 0.002 c) 0.002 57 d) 0.003

59. Express 732 - 272

a) 4 600 b) 2 116 c) 460 d) 216

60. What is the mode of the following numbers? 5, 6, 4, 3, 6, 4, 7, 8, 4, 3.

a) 7 b) 6 c) 5 d) 4

**COMPREHENSION**

**Read the passage carefully and answer the questions on it**

Dolphins are regarded as the friendliest creatures in the sea and stories of them helping drowning sailors have been common since Roman times. The more we learn about dolphins, the more we realize that their society is more complex than people previously imagined. They look after other dolphins when they are ill, care for pregnant mothers and protect the weakest in the community, as we do. Some scientists have suggested that dolphins have a language but it is much more probable that they communicate with each other without needing words. Could any of these mammals be more intelligent than man? Certainly the most common argument in favor of man’s superiority over them that we can kill them more easily than they can kill us in the least satisfactory. On the contrary, the more we discover about these remarkable creatures, the less we appear superior when we destroy them

61. It is clear from the passage that dolphins……………..

a) don’t want to be with us as much as we want to be with them

b) are proven to be less intelligent than once thought

c) have a reputation for being friendly to humans

d) are the most powerful creatures that live in the oceans

62. The fact that the writer of the passage thinks that we can kill dolphins more easily than they can kill us ……………

a) means that they are better adapted to their environment than we are

b) shows that dolphins have a very sophisticated form of communication

c) proves that dolphins are not the most intelligent species at sea

d) does not mean that we are superior to them

63. One can infer from the reading that ……………

a) communication is the most fascinating aspect of the dolphins

b) dolphins have skills that no other living creatures have such as the ability to think

c) it is not usual for dolphins to communicate with each other

d) dolphins have some social traits that are similar to those of humans

64. Stories of dolphins have been common since ……….. times

a) Greek b) Roman

c) Nigerian d) World

65. From the passage it can be deduced the dolphins …………..

a) care for pregnant women

b) protect weak people in the society

c) use non verbal means of communication

d) they look after humans when they are ill

***Choose the word that is nearly opposite in meaning to the underlined word or expression in each of the following***

66. Your cake is attractive

a) pretty b) good-looking c) unappealing d) great

67 Some politicians preach virtues but practice

a) vices b) vanity c) success d) sorrow

68. Mr. Ahmed is always Punctual to work

a) irregular b) absent c) present d) late

***Choose the word that is nearest in meaning to the underlined word or expression in each of the following***

69. The ceremony took place prior to Coleman’s return

a) after b) before c) by d) at

70. Amole is very Amiable

a) helpful b) able c) creative d) friendly

71. There was a football competition among the schools in the area

a) Game b) play c) match d) contest

***Choose the correctly-spelt word from the following***

72. He offered me a ……………….

a) souvenir b) souvernir c) souvernir d) suvernir

73. To avoid sexually transmitted disease, ……….. is advised

a) Abstinence b) Absteinance c) Abstenence d) Abstainence

74. a) continuous b) continuos c) continuous d) continuous

***Choose the option that is most appropriate among the given options***

75 …………… is a story of love and courage

a) there’s b) theirs c) their d) these

76. I was amazed ………… her ignorance

a) at b) with c) on d) for

77. You should neither borrow …….. lend

a) nor b) or c) and d) but

78. When I got to the market, everybody ………… home

a) have gone b) has gone c) went d) had gone

79. Have you ever ………. A bike?

a) rode b) ride c) ridden d) rides

80. He ran ……….. to rescue the dog

a) fast b) fastly c) fast fast d) very fastly

81. These students obey school rules ……….?

a) isn’t it b) don’t they c) do they d) aren’t they

82. Ade blew the balloon so much until it …………..

a) bursted b) burst c) bursting d) bursten

***Choose the correct interpretation for each of the following underlined expressions***

83. The woman told her employer that she was at sea concerning the issue

a) she has travelled b) she was confused

c) she had sailing experience d) she was excited

84. When he heard what happened to his wife, he flew off the handle

a) jumped off a moving bus b) flew off the handle of his bike

c) went very crazy d) was very calm

85. As her examination approached, Bimbo got cold feet. This means that Bimbo

a) had her feet soaked in cold water b) became sick

c) became nervous d) ran away from the house

***Identify the appropriate passive forms for each of the following***

86 ISI won the prize

a) The prize was won by ISI b) ISI wins the prize

c) Prize won ISI d) The price is won by ISI

87. Active voice: Leilah eats a fruit daily

a) a fruit is eaten by Leilah daily b) A fruit was eaten by Leilah daily

c) A fruit has eaten by Leilah daily d) A fruit has been eaten by Leilah daily

***In each of the following, fill the gap with the most appropriate option***

88. The …………… has come to repair the damaged drainage pipes.

a) mechanic b) lawyer c) landlord d) plumber

89. They always have good fresh milk at their ……………..

a) hatchery b) piggery c) dairy d) granary

90. My ………… is my brother’s daughter

a) aunt b) sister c) niece d) cousin

91. The 2013 Orange African Cup of Nations was hosted by

a) Guinea b) Ivory Coast c) South Africa d) England e) Bukina Faso

92. The Central Bank of Nigeria is headed by ……………..

a) Auditor b) Governor c) Auditor- General d) Governor-General

93. Which of the following is not a problem to the Federal Government of Nigeria

a) Boko Haram b) Kidnapping c) Fuel Scarcity

d) Educational Scholarship e) Electricity

94. Which of the following countries rules Nigeria before inde4pendence?

a) U.S.A b) Japan c) Germany d) Britain

95. The full meaning of AIDS is

a) Acquired Infections Disease Syndrome b) Acquired Immune Disease Syndrome

c) Acquired Immune Deficiency Syndrome d) Acquired Immune Destruction Syndrome

96. The Coronavirus pandemic originated from ………… in year 2019

a) Paris b) Wuhan c) Huwa d) Huwohan

97. The current on-going National Sport festival in Nigeria is taking place in

a) Warri b) Edo c) Bendel d) Ondo

98. The highest authority in the university is

a) Principal b) Rector c) Provost d) Vice Chancellor

99. Which of the following countries in not in Africa?

a) Ethiopia b) Uganda c) Malaysia d) Niger Republic

100. How many countries are in Africa?

a) 24 b) 34 c) 44 d) 54