NIGERIAN NAVY DSSC 22 ENLISTMENT APTITUDE TEST - 2013

MATHEMATICS AND QUANTITATIVE APTITUDE QUESTION

Time Allowed: 1 Hours
Instructions.

This paper has **100 multiple choice questions** and each question has 5 possible answers A, B, C, D or E **Consider each question** carefully and choose the correct answer from the alternatives A to E.

1. Express $2\sqrt{3}$ as the square root of a single number.
   A. $\sqrt{4}$ B. $\sqrt{5}$ C. $\sqrt{6}$ D. $\sqrt{12}$ E. $\sqrt{9}$

2. Numbers That cannot be written as ratios are called irrational Numbers. Which is an irrational number
   A. 2.5   B. 7   C. 0.4   D. $2\sqrt{7}$ E. $\sqrt{4}$

3. A right angle triangle has sides of length $\sqrt{10}$ cm and $\sqrt{6}$ cm What is the length of the hypotenuse
   A. $\sqrt{14}$ cm   B. $\sqrt{16}$ cm   C. $\sqrt{60}$ cm   D. 4cm   E. 16cm

4. A right angle triangle has sides a and b as well the hypotenuse side h, which of these is not correct
   A. $h^2 = a^2 + h^2$ B. $h^2 = a^2 / h^2$ C. $a^2 = h^2 - b^2$ D. $b^2 = h^2 - a^2$ E. h is the longest side

5. An officer is twice as old as his son. In five years time, the sum of their ages will be 85 years. What is the officers age now?
   A. 20 years   B. 42.5 years   C. 45 years   D. 50 years   E. 55 years

6. A square of sides 7cm, a Rectangle of sides 8 and 6cm and a circle of radius diameter 7cm are placed side by side . Which of these objects has the largest area
   A. Rectangle   B. Circle   C. All   D. Square   E. None, the areas are equal

7. The value of a boat depreciates by 10% at the end of each year. If the boat cost $2 million now. What will be its value in naira after two years? (Take $1 = N 150)
   A. N 270m   B. N 240m   C. N 300m   D. N 243m   E. N 280m

8. An item is marked N10,000 VAT inclusive. If VAT rate is 5%, how much will the buyer pay and how much VAT will the Government receive on this sale?
   A. N 10,500 and N500   B.N 10 and N 5   C. N 9,500 and N 500
   D. N 10,000 and N5   E. N10,000 and N 500

9. A settee is advertised as N9,000 plus VAT. If VAT is 5%. How much will a buyer pay
   A. N9,500   B. N9,450   C. N8,550   D. N9,005   E. N9,000

Use the information below to answer Question 10-12.

A young officer earns N1.8 million basic per per annum and allowances of N45,000 per month.
The personal Income Tax rate is 10%

10. What amount of tax does he pay per month?
    A. N12,000   B. N18,000   C. N10,000   D. N180,000   E. N15,000

11. What is the young officer's take home per month?
    A. N195,000   B. N180,000   C. N 175,500   D. N185,000   E. N200,000

12. If the young officer does a compulsory mortgage contribution of 20% of his take home salary. How much is left of his salary?
A. N160,000   B. 156,000   C. 150,000   D. N144,000   E. 200,000

The table below gives the distance travelled by an object against time. Use it to answer Q 13-15

Time in Seconds	0	10	20	30	40	50	60	70	80	90	100
Distance in Meters	10	40	50	100	160	180	200	210	250	280	330

13. What was the speed in the last 10 seconds?
A. 20m/s   B. 5m/s   C. 80m/s   D. 10m/s   E. 330m/s

14. What is the average speed of the object?
A. 33m/s   B. 330m/s   C. 32m/s   D. 3.3m/s   E. 3.2m/s

15. The object recorded the highest speed between
A. 10 and 20s   B. 20 and 30s   C. 30 and 40s   D. 90 and 100s   E. 80 and 90s

16. If numbers can be written with a tolerance of 0.5, what is the range of values for the sum of 10 and 11?
A. 20 - 22   B. 20 - 21   C. 21   D. 21-22   E.19-20

17. A chart that represents the totality of data using a circle is called a _____
A. Pie chart   B. Histogram   C. Circular Chart   D. Bar chart   E. Pictogram

18. If a Equilateral Triangle of sides 7cm is placed on a square of sides 7cm. what is the perimeter of the composite shape?
A. 21cm   B. 14cm   C. 49cm   D. 35cm   E. 28cm

19. What is the simple interest on N15,000 for 5 years at 10% per annum?
A. N150,000   B. N5,000   C. N10, 000   D.N7,500   E.N15,000

20. Arrange the following fractions in order of their sizes from smallest to largest: 1/4, 1/2 and 3/4
A. 1/4, 1/2 and 3/4   B. 1/4, 3/4 and1/2   C. 1/2 , 1/4 and 3/4   D. 3/4, 1/4 and 1/2
E. 3/4, 1/2 and 1/4

21. If N37,700.56 is rounded off to the nearest thousand .you'll get
A. N37,700.6   B. N37,000   C.N37,701   D.N40,000   E. N38,000

22. The device used to measure angle is called a.
A. T-square   B. Angle Bar   C. Protractor   D. Compass   E. Set Square

23. A machine makes a product every five Seconds. How many hours are required to make 1440?
A. 2 hours   B. 4 hours   C. 14 hours   D. 3 hours   E. 5 hours

24. A worker completes 3/4 of a job in 12 days. At this rate, how many more days are required to finish the job?
A. 16 days   B. 7 days   C. 9 days   D. 4 days   E. 3 days

25. A boy was asked to calculate $2^4 \times 3^2$ and got 80 as his answer. what is the difference between his answer and the actual answer.
A. 0   B. 1   C. 18   D. 8   E. 9

26. The boys and girls in a class room are in the ration 3:2. If the class has a total of 35 students, how many are boys?
    A. 14   B. 32   C. 28   D. 21   E. 5

27. If A is twice as fast a B and C is three time as fast as A. A journey covered by B in 1 1/2 hrs will be covered by C in.
    A. 15 minutes B. 15 hours C. 18 minutes D. 30 minutes E. 9 hours

28. If the sides of a rectangle are reduced by 20%, the area is reduced by
    A. 20%   B. 40%   C. 64%   D. 10%   E. 36%

29. Assume, 27 January 1996 was a Monday, what day of week was 10 march 1996?
    A. Monday B. Tuesday C. Wednesday D. Thursday E. Friday

30. What is the percentage yield of N1 shares at N1.08 with dividend of 10%?
    A. 8%   B. 9.3%   C. 8%   D. 1.08%   E. 10.8%

Diagram

31. How many pupils are in the class?
    A. 45   B. 30   C. 37   D. 40   E. 35

32. How many pupils prefer English only?
    A. 13   B. 7   C. 24   D. 20   E. 27

33. How many pupils prefer English or Mathematics?
    A. 5   B. 31   C. 37   D. 30   E. 6

34. How many pupils prefer Mathematics and General Science?
    A. 4   B. 15   C. 37   D. 30   E.6

35. How many pupils prefer all 3 subjects?
    A. 2   B. 3   C. 4   D. 6   E. 5

From the Figures Question 36-40
Diagram

36. In which of these curve(s) does Point B represent point of inflection.
    A. I x II B. I,II, III & IV C. III & IV D. III only E. IV only

37. In which of these curves does Point B represent turning points.
    A. I   B. II   C. III   D. IV   E. None

38. In which of these curves does point B represent a maxima Point.
    A. None B. II C III D. IV E. None

39. In which of these curves does point B represents turning points.
    A. None B. I &II C. II & III D.IV E. All the curves

40. In which of these curves does the gradient change from positive to negative.
    A. I   B II   C. III   D. IV   E. None

41. Convert N4125 into dollars (15 equals N165.00)
    A. 5250.00 B. 52.50 C. 5165.00 D. 525.00 E. 541.25

42. Express 4957cm in km to 2 decimal places.
    A. 0.04   B. 0.005   C. 0.049   D.49.57   E.50.00

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47	Cinematography.
48	Television Production.
49	Computer Technology (Desktop Publishing).
50	Website Development and Management.
51	Networking and Network Administration.
52	Programming Multimedia and Software Development.
53	Server and Database Administration.
54	Information and Cyber Security.
55	Consultants
56	General Doctors/Dental Surgeons
57	Medical Lab Science
58	Dental Therapist
59	Radiographer:
60	Physiotherapy:
61	Optometry
62	Dietician
63	Clinical Psychology:
64	Biomedical Engineer:
65	Public Health Officer
66	General Nursing/Midwives
67	Hospital Administration:
68	Music
69	Transport Management.
70	Economics, Business Management or Marketing.
71	Architecture.
72	Catering/Hospitality Management.
73	Civil Engineering.
74	Quantity Survey.
75	Structural Engineering.
76	Estate Surveyor and Valuers.
77	Final Certificate of Nigerian Institute of Transport Technology.
78	Legal Service

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