



REVISION AIDS
FOR
ENTRANCE EXAMINATIONS INTO
COLLEGES/SCHOOLS OF HEALTH
TECHNOLOGY AND NURSING

Compiled by:

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REVISION AIDS FOR ENTRANCE EXAMINATIONS INTO COLLEGE/SCHOOLS OF HEALTH TECHNOLOGY AND NURSING

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ALH. BABATUNDE SALIU

ALH. ISIAKU NDA ALIU

1ST Edition

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ACKNOWLEDGEMENT

We give Honour, Glory and Adoration to Almighty Allah, for giving us the opportunity and the strength to write this book.

We would like to sincerely acknowledge and thank all of the various National Examining Bodies where Past Questions have been used in this work. These include WASC, NECO, JAMB and Others.

We, also thank and acknowledge the kind gesture of the management and staff of our great College, Kwara State College of Health Technology, Offa. In particular, we are grateful to Mallam Abdu-Rafiu Aliu, the Provost; Elder A.B. Ayanshola (JP), the Registrar; Alhaji Bayo O. Sheu, the Bursar.

Finally, we should also acknowledge the effort of all those that were involved in seeing to it that this little contribution sees the light of the day. Barrister Olatunde (Esq) for his contributions in setting the Current Affairs Questions, Mr. Segun Oke (Shalom Concepts) who typed the manuscript, and indeed all well wishers.

It is our hope that this small effort would be useful to prospective candidates into this and other similar Institutions in Nigeria.

PREFACE

A compilation of Past Questions and Answer for Entrance Examinations into both Colleges of Nursing and Health Technology becomes necessary in-view of the increasing rates at which candidates fail such exams and also the need to present handy preparatory/revision package for prospective students.

The efforts these seasoned educationists in this direction is therefore timely and will go a long way to reduce the stress candidates normally go through when preparing for entrance test.

This Revision Aids therefore is a worthy companion for all candidates wishing to secure admission without tears.

***Alh. Babatunde S.
&
Alh. Isiaku N.A.***

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MATHEMATICS



Time Allowed: 2 Hour

1. Approximate 0.4059 to 2 Significant figures.
a. 406
b. 0.405
c. 0.41
d. 0.40
e. 0.4
2. Factorise a^2c-2ac^2
a. $ac(1-2c)$
b. $ac(c-2c)$
c. $ac(a-2c)$
d. $ac(a-c)$
e. $a(c-2c^2)$
3. Solve $\frac{y-4}{2} = \frac{y-1}{3}$
a. 14
b. 10
c. -1
d. -4
e. -10
4. Factorise $16-9a^2$
a. $(4-3a)^2$
b. $(4+3a)^2$
c. $(4a-3)(4a+3)$
d. $(4-3a)(4a+3)$
e. $(4-3a)(4+3a)$
5. Find the range of values of x for which $7-x>8$
a. $x>-1$
b. $x\leq-1$
c. $x<1$
d. $x<-1$
e. $x<15$
6. The mean age of five pupils whose ages are 5,6,x,7, and 12 is 7years. Find the median age.
a. 12 years
b. 7 years
c. 6 years
d. 5 years
e. 4 years
7. A letter is chosen at random from the English alphabet. Find the probability that it is a vowel.
a. $\frac{1}{26}$
b. $\frac{5}{26}$
c. $\frac{5}{27}$
d. $\frac{22}{27}$
e. $\frac{22}{26}$

8. What is the angle whose tangent is 0.8092?
- 0.19°
 - 35.98°
 - 38.98°
 - 54.02°
 - 141.02°
9. A boy walked 15km at 5km/h and cycled 20km at 4km/h. what was his average speed for the whole journey?
- 6km/h
 - 5 km/h
 - $4\frac{3}{8}$ km/h
 - $3\frac{8}{9}$ km/h
 - 3 km/h
10. What is the L.C.M. of ab^2 and a^2b^3 ?
- ab
 - a^2b
 - ab^2
 - a^2b^2
 - a^2b^3
11. If $x = \frac{100}{y^2}$, find the positive value of y when x = 25.
- 10
 - 8
 - 6
 - 4
 - 2
12. Simplify the ratio $3\frac{1}{7} : 5\frac{2}{3}$
- 3:5
 - 21:35
 - 22:17
 - 66:119
 - 66:139
13. Express 0.000305 in Standard Form?
- 3.5×10^5
 - 3.05×10^4
 - 3.05×10^{-4}
 - 3.05×10^{-5}
 - 3.05×10^{-6}
14. Calculate $(4 \times 10^2) \times (9 \times 10^3)$ giving your answer in Standard Form?
- 3.6×10^6
 - 3.6×10^5
 - 3.6×10^4
 - 3.6×10^3
 - 3.6×10
15. Simplify the expression $8-x-(3+2x)$.
- $11+3x$
 - $5+2x$
 - $11-3x$
 - $5-3x$
 - $8-2x$
16. Find the HCF of $8xy$ and $24y^2$
- xy^2
 - $8xy$
 - $8y$
 - $3xy$
 - $3y$

- 17.** A line that divides a circle into two equal parts is known as?
- Chord
 - Diameter
 - Radius
 - Sector
 - Segment
- 18.** In a class of 25 students, 15 are boys. What percentage are girls?
- 10%
 - 15%
 - 20%
 - 30%
 - 40%
- 19.** Simplify $\frac{3}{8} \times \frac{1}{4} \div \frac{3}{4} + \frac{1}{5}$
- $\frac{15}{152}$
 - $\frac{16}{152}$
 - $\frac{13}{152}$
 - $\frac{19}{152}$
 - $\frac{21}{152}$
- 20.** What is the complement of 63° ?
- 63°
 - 57°
 - 47°
 - 27°
 - 17°
- 21.** What is the perimeter of a regular decagon of side 3.25cm each?
- 3.25cm
 - 26.5cm
 - 28.5cm
 - 32.5cm
 - 40cm
- 22.** Calculate the area of a circle whose diameter is 7m (Take $\pi = \underline{22}$)
- $6\frac{1}{2}\text{m}^2$
 - $14\frac{1}{2}\text{m}^2$
 - $22\frac{1}{2}\text{m}^2$
 - $30\frac{1}{2}\text{m}^2$
 - $38\frac{1}{2}\text{m}^2$

- 23.** Express 52 as a product of its prime factors in index form
- 2×13^2
 - 2×26
 - $2 \times 2 \times 13$
 - $2^2 \times 13$
 - 4×13
- 24.** A store keeper is paid 10% commission on all goods sold. What commission will he receive if he sells goods worth ₦15,500.00?
- ₦ 15,050.00
 - ₦ 15,005.50
 - ₦ 15,005.00
 - ₦ 1,500.50
 - ₦ 1,550.00
- 25.** What is the value of the Roman Numeral **MXCV** ?
- 1000
 - 1065
 - 1095
 - 1600
 - 7050
- 26.** Find the product of $(y-3)$ and $(y+3)$
- $y^2 - 6y + 9$
 - $y^2 - 9$
 - $y^2 + 6y + 9$
 - $y^2 + 9$
 - $y^2 + 3$
- 27.** Factorize: $4x^2 - 3y - 6x + 2xy$
- $(2x-y)(2x-3)$
 - $(x-2y)(2x-3)$
 - $(2x+3)(2x+y)$
 - $(2x+y)(2x-3)$
 - $(2x-y)(2x+3)$
- 28.** Solve the simultaneous equations: $x-2y+3=0$, $3x+2y=7$
- $x = -4, y = 1$
 - $x = -3, y = 0$
 - $x = 1, y = -3$
 - $x = 1, y = 2$
 - $x = 2, y = 1$
- 29.** Simplify $10x - 7y - 6x + 5y$
- $2(4x-2y)$
 - $2(2x-y)$
 - $2x-y$
 - $2x(2x-2y)$
 - $2(10x-7y)$
- 30.** Find the sum of the mode and median of the following set of numbers: 2, 3, 2, 1, 3, 3.
- 2.5
 - 3.0
 - 4.5
 - 5.5
 - 6.0
- 31.** Jones rolls a fair die once. What is the probability of obtaining an odd number?

- a. $\frac{1}{5}$
- b. $\frac{1}{4}$
- c. $\frac{1}{2}$
- d. $\frac{3}{5}$
- e. $\frac{2}{3}$

32. In a mathematics test, the scores by 50 students are as shown below. **Find the sum of the mode and the median.**

MARKS	3	4	5	10	11	12
FREQUENCY	5	6	8	9	12	10

- a. 3
- b. 4
- c. 5
- d. 16
- e. 21

33. Subtract 10101_{two} from 111000_{two}

- a. 100001_{two}
- b. 100010_{two}
- c. 10011_{two}
- d. 101011_{two}
- e. 1001101_{two}

34. A Toyota Hilux uses 100 litres of fuel in a distance of 250km. How many litres of fuel will it use for a distance of 150 kilometers?

- a. 50 litres
- b. 60 litres
- c. 80 litres
- d. 133 litres
- e. 375 litres

35. If $\frac{P}{15} = \frac{4}{5}$, find the value of P.

- a. 4
- b. 8
- c. 12
- d. 16
- e. 20

36. All the following are the properties of an equilateral triangle **EXCEPT**

- a. All the angles are equal
- b. All the sides are equal

- c. Each of the angle is 60°
- d. There are three lines of symmetry
- e. There is only one line of symmetry

37. What is the Coefficient of q in the expansion of $(2q + 1)(1 - 2q)$?

- a. -2
- b. -1
- c. 0
- d. 1
- e. 2

38. Expand $(2x + 1)^2$

- a. $x^2 + 4x + 1$
- b. $x^2 + 4x + 4$
- c. $4x^2 + 4x + 1$
- d. $x^2 + \frac{x}{4} + 1$
- e. $\frac{x^2}{4} + x + 1$

39. solve the equations simultaneously $x + y = 5$, $2x + y = 3$

- a. $x=7, y=-2$
- b. $x=7, y=2$
- c. $x=2, y=7$
- d. $x=2, y=-7$
- e. $x=-2, y=7$

40. Find the range of the following set of data 25, 22, 23, 27, 19, 15, 22, 23, 22, 22.

- | | | |
|-------|-------|------|
| a. 25 | c. 22 | e. 3 |
| b. 23 | d. 12 | |

41. Evaluate $\sqrt[3]{3^{1/16}}$

- a. $1^{1/4}$
- b. $3^{1/2}$
- c. $1^{3/4}$
- d. $2^{1/4}$
- e. $2^{1/2}$

42. What is the missing number if the subtraction is in base two?

11001010
XXXXXXXXXX
10101011

- a. 1011111
b. 111111
c. 10111
- d. 11111
e. 10111

43. Evaluate $\frac{0.01 \times 0.04}{0.0002}$. Giving your answer in Standard Form.

- 2×10^{-3}
- 2×10^{-2}
- 2×10^{-1}
- 2×10^0
- 2×10^1

44. What is the Coeffieicnt of r in the expansion of $(3r-5)(2r+3)$?

- 1
- 1
- 5
- 6
- 15

45. Simplify $8x^2y \times \frac{3xy}{6xy^2}$

- a. $\frac{x^2y}{2}$
b. $4x$
c. $4x^2$
d. $4x^2y$ e. $4xy^2$

46. The table below gives the ages of a group of students in class.

AGE (YR)	11	12	13	14	15
FREQUENCY	2	6	5	3	2

How many students are in the class?

- [illegible]

47. The chance of Magaji passing an examination is $\frac{3}{7}$. What is the probability of failing the same examination?
- $\frac{4}{7}$
 - $\frac{1}{2}$
 - $\frac{3}{7}$
 - $\frac{2}{7}$
 - 0

The table below shows the scores of students in a test. Use the table to answer questions 48 to 50

SCORE	13	14	15	16	18
NO OF STUDENTS	12	7	8	5	3

48. What was the modal score?
- 13
 - 14
 - 15
 - 16
 - 18
49. How many Students took part in the test?
- 19
 - 27
 - 32
 - 35
 - 40
50. Find the median score
- 13
 - 14
 - 15
 - 16
 - 18
51. Simplify $(2^{3/5} - 1^{2/3}) \times 5/6$
- 1
 - $8/9$
 - $7/9$
 - $5/18$
 - $1/18$
52. Convert 131_{four} to base ten
- 29
 - 28
 - 21
 - 19
 - 17
53. Given that $7:y=21:6$, find the value of y
- 2
 - 6
 - 16
 - 24
 - 27

- 54.** Find the area of a trapezium which has a height 20cm and its parallel sides are 7cm and 8cm long.
- 140cm^2
 - 150cm^2
 - 160cm^2
 - 560cm^2
 - 1120cm^2
- 55.** A ladder 15m long rests against a vertical wall. If the foot of the ladder is 12m away from the wall, how far up the wall is the ladder?
- 3m
 - 9m
 - 12m
 - 15m
 - 27m
- 56.** Find the sum of angles of a hexagon
- 360°
 - 720°
 - 900°
 - 1080°
 - 1440°
- 57.** A number is multiplied by 5 and the result is twice the number added to 2. Find the number?
- 0
 - $\frac{2}{7}$
 - $\frac{2}{3}$
 - $1\frac{1}{2}$
 - $3\frac{1}{2}$
- 58.** Simplify $\frac{4x}{7} - \frac{x}{21}$
- $\frac{21x}{11}$
 - $\frac{21x}{13}$
 - $\frac{13x}{21}$
 - $\frac{11x}{21}$
 - $\frac{x}{21}$
- 59.** If $2x + y = -7$ and $3x = 6 + 4y$ are simultaneous linear equations, what is the value of $x - y$?
- 5
 - 1
 - 1
 - 5
 - 6

- 60.** Find the value of $PQ - 5P$ if $P = 2$ and $Q = 3$
- a. -16 c. 4 e. 16
b. -4 d. 8
- 61.** Simplify: $(-216mtn^2) \div (8mn)$.
- a. $27mtn$ c. $27nt$ e. $-27nt$
b. $27mn$ d. $-27mt$
- 62.** Find the product of the L.C.M. and H.C.F. of $9xy$, $18y^2$ and $3z$.
- a. $18xyz$ c. $54xy^2$ e. $54xy^2z$
b. $18xy^2z$ d. $54xyz$

***The table of values for $2x-y=5$ is represented below.
Use it to answer questions 66 and 67.***

X	1	2	3	4	5	6	7
Y	A	B	1	3	5	7	G

- 63.** What is $a + b - ab$?
a. 3
b. 2
c. 0
d. -3
e. -7
- 64.** Find the value of g ?
a. 19
b. 9
c. 2
d. -2
e. -9
- 65.** The sum of the ages of an English Teacher and her student is at least 76 years. If the teacher is x years old and the student is $(x-26)$ years old, find the possible values of x .
a. $x \geq 25$
b. $x \geq 51$
c. $x \leq 25$
d. $x \leq 51$
e. $x < 51$
- 66.** The body temperature recorded in a hospital are as follows:
 32°C , 37°C , 42°C , 35°C , 32°C , 32°C , 40°C . What is the modal body temperature?
a. 32°C
b. 35°C
c. 37°C
d. 40°C
e. 42°C
- 67.** A fair die is thrown once. What is the probability of getting a prime number?

- a. $\frac{3}{4}$
- b. $\frac{2}{3}$
- c. $\frac{1}{2}$
- d. $\frac{1}{4}$
- e. $\frac{1}{5}$

68. Evaluate $(101.5)^2 - (100.5)^2$

- a. 1
- b. 2.02
- c. 20.02
- d. 202
- e. 2020

Use the following for question 69 to 71: A Group of Students took a test and the following frequency tables shows the scores:

Score	0	1	2	3	4	5
Frequency	2	3	4	2	7	2

69. Find the Mode

- a. 2
- b. 3
- c. 4
- d. 5
- e. 7

70. Find the Mean Score

- a. 1.75
- b. 2
- c. 2.5
- d. 2.75
- e. 3

71. The Median Score is

- a. 0
- b. 2.5
- c. 3
- d. 5
- e. 7

72.

- 73.** Find the roots of the equation $2x^2 - 3x - 2 = 0$
- $x = -2$ or $\frac{1}{2}$
 - $x = -2$ or 1
 - $x = -2$ or 2
 - $x = -1$ or 2
 - $x = -\frac{1}{2}$ or 2 .
- 74.** What value of k makes the given expression a perfect square?
 $m^2 - 8m + k$
- 2
 - 4
 - 8
 - 16
 - 64.
- 75.** If $3 \log a + 5 \log a - 6 \log a = \log 64$, what is a ?
- 4
 - 6
 - 8
 - 16
 - 32
- 76.** The angle of elevation of x from Y is 30° . If $XY = 40\text{m}$, How high is X above the level of Y ?
- 10m
 - 20m
 - $20\sqrt{3}\text{m}$
 - 40m
 - 50m
- 77.** If 5 times a certain integer is subtracted from twice the square of the integer, the result is 63. Find the integer?
- 21
 - 9
 - 7
 - 4
 - 3
- 78.** Solve the following equation: $6x^2 - 7x - 5 = 0$
- $x = \frac{1}{2}$ or $x = -2\frac{1}{2}$
 - $x = \frac{1}{3}$ or $x = 2\frac{1}{2}$
 - $x = \frac{5}{3}$ or $x = -\frac{1}{2}$
 - $x = -\frac{12}{3}$ or $x = \frac{1}{2}$
 - $x = \frac{5}{6}$ or $x = -1$

Use the *PIE CHART* below, which shows the distribution of the population of a village, for Question 78 and 79

79. What angle represents grown up girls ? correct to 1 decimal place.

- 37.5°
- 26.7°
- 25.7°
- 20°
- 3.75°



80. What percentage of the population are married? Correct to 1 decimal place

- 14.8%
- 20.4%
- 30.5%
- 35.2%
- 36.5%

81. In a Class of 80 Students, every Student had to study Economics or Geography or both Economics and Geography. If 65 Students studied Economics and 50 Studied Geography, How many studied both subjects ?

- 15
- 30
- 35
- 45
- 50

82. Solve the equation $2a^2 - 3a - 27 = 0$

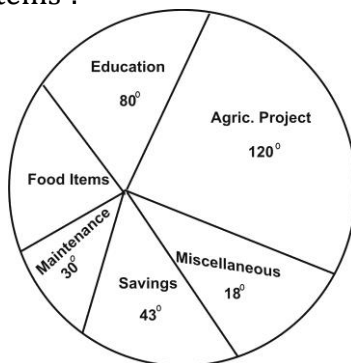
- $3/2, 9$
- $-2/3, 9$
- $3, 9/2$
- $-3, -9/2$
- $-3, 9/2$

USE THE INFORMATION BELOW FOR QUESTION 82 AND 83:

The Annual Salary of Mr. David Johnson for 1989 was ₦12,000.00. He spent this on Agricultural Project, Education of his Children, Food Items, Savings, Maintenance and Miscellaneous items as shown in the Pie Chart.

83. How much did He spend on food Items ?

- a. ₦9,700.00
- b. ₦6,700.00
- c. ₦4000.00
- d. ₦3,700.00
- e. ₦2,300.00



84. How much money did he invest in Agriculture

- a. ₦1,200.00
- b. ₦1,440.00
- c. ₦2,000.00
- d. ₦2,910.00
- e. ₦4,000.00

USE THE INFORMATION BELOW FOR QUESTION 84 AND 85:

Two Groups of Males Students Cast their VOTE on a Particular proposal. The results are as follows:

	IN FAVOUR	AGAINST
Group A	128	32
Group B	96	48

85. If a Student in Favour of the proposal is selected for a Post, What is the probability that he is form group A?

- a. $\frac{8}{19}$
- b. $\frac{16}{35}$
- c. $\frac{10}{19}$
- d. $\frac{4}{7}$
- e. $\frac{4}{5}$

- 86.** If a Student is chosen at random, what is probability that he is against the proposal?
- $3/19$
 - $4/19$
 - $5/19$
 - $9/19$
 - $10/19$
- 87.** Simplify: $\log 6 + \log 2 - \log 12$
- -4
 - -1
 - 0
 - 1
 - 4
- 88.** Simplify: $\frac{1}{4} (2^n - 2^{n+2})$
- $2^{n-2} - 2^n$
 - $2^{n-2} (1 - 2^n)$
 - $2^{n+2n} + 2$
 - 2^{2n}
 - 0
- 89.** Find the equation whose roots are $-2/3$ and $-1/4$
- $12x^2 + 11x + 2 = 0$
 - $12x^2 - 11x + 2 = 0$
 - $x^2 - 11/12x + 2 = 0$
 - $12x^2 + 11x - 2 = 0$
 - $x^2 + 11/12x - 2 = 0$
- 90.** Solve: $6(x-4) + 3(x+7) = 3$
- $3/2$
 - $2/3$
 - $1/2$
 - $1/3$
 - 0
- 91.** Mrs. Kofi sold an article for C7.50 instead of C12.75. calculate her percentage error, correct to one decimal place.
- 41.2%
 - 18.3%
 - 5.3%
 - 1.7%
 - 1.4

- 92.** The first term a of an A.P. is equal to twice the common difference d . Find, in terms of d , the 5th term of the A.P.
- $4d$
 - $5d$
 - $6d$
 - $A + 5d$
 - $2a + 4d$
- 93.** The common ratio of a G.P is 2, If the 5th term is greater than the 1st term by 45, Find The 5th term,
- 3
 - 6
 - 45
 - 48
 - 90
- 94.** Which of the following is not a measure of dispersion?
- Mode
 - Mean deviation
 - Range
 - Interquartile range
 - Standard deviation
- 95.** A Car is travelling at an average speed of 80km/hr, its speed in meters per second (m/s) is?
- 13.3m/s
 - 22.2m/s
 - 133.3m/s
 - 222.2m/s
 - 1333.3m/s
- 96.** If $P = (3,5,6)$ and $Q = (4,5,6)$ then $P \cap Q$ equals?
- $(3,4)$
 - $(4,5)$
 - $(4,6)$
 - $(5,6)$
 - $(3,6)$
- 97.** The total number of weeks in a year is?
- 40
 - 42
 - 50
 - 52
 - 62
- 98.** What is the values of R if $\frac{1}{2} \log_{10} R = 1$
- 10^4
 - 10^3
 - 10^2
 - 10^1
 - 10^3

- 99.** A desktop computer is bought for N45,000.00 and sold for N30,000.00. Find the loss percent.
- 45.00%
 - 33.33%
 - 30.00%
 - 15.33%
 - 10.00%
- 100.** What is the compass bearing of 250°
- N 20° E
 - S 20° E
 - N 20° W
 - S 70° W
 - S 70° E
- 101.** Convert 35 to a number in base two
- 1011
 - 10011
 - 100011
 - 110010
 - 110001
- 102.** Arrange in descending order of magnitude $\frac{3}{5}$, $\frac{1}{2}$, $\frac{4}{7}$, $\frac{5}{9}$
- $\frac{3}{5}$, $\frac{4}{7}$, $\frac{1}{2}$, $\frac{5}{9}$
 - $\frac{1}{2}$, $\frac{3}{5}$, $\frac{4}{7}$, $\frac{5}{9}$
 - $\frac{3}{5}$, $\frac{4}{7}$, $\frac{5}{9}$, $\frac{1}{2}$
 - $\frac{4}{7}$, $\frac{3}{5}$, $\frac{1}{2}$, $\frac{5}{9}$
 - $\frac{5}{9}$, $\frac{3}{5}$, $\frac{4}{7}$, $\frac{1}{2}$.
- 103.** A sale boy gave a change of ₦1.15 to a customer instead of ₦1.25. calculate his percentage error.
- 10%
 - 8.7%
 - 8.0%
 - 2.4%
 - 0.10%
- 104.** Factorize $3P^2 - 11p + 6$
- $(3p-2)(p-3)$
 - $(2p-2)(p-3)$
 - $(3p-2)(p+3)$
 - $(3p+2)(p-3)$
 - $(2p-3)(p+2)$

- 105.** Simplify $\frac{1}{4} (2^x - 2^{x+2})$
- $2^{x-2} - 2^x$
 - $2^{x-2} - (1-2^x)$
 - $2^x - 2^{x+2}$
 - 2^{2x}
 - 0
- 106.** Simplify: $\text{Log}_{10}^3 + \text{Log}_{10}^9 - \text{Log}_{10}^{27}$
- 3
 - 0
 - 3
 - 9
 - 9
- 107.** A Toyota Hilux uses 100 litres of fuel in a distance of 250km. How many litres of fuel will it use for a distance of 150 kilometres?
- 50 litres
 - 60 litres
 - 80 litres
 - 133 litres
 - 375 litres
- 108.** Solve $7\sqrt{75} - 3\sqrt{12} + 1$
- $3 - \sqrt{2}$
 - $8 + \sqrt{5}$
 - $\sqrt{3} + 1$
 - $29\sqrt{3} + 1$
 - $\sqrt{2} + 29$
- 109.** Simplify $4 \sqrt{\frac{18}{8}}$
- 2
 - 3
 - 6
 - 12
 - 8
- 110.** Find the value of **X** which satisfies the equation $5(x - 7) = 7 - 2x$
- $x = 2$
 - $x = 4$
 - $x = 6$
 - $x = 14$
 - $x = 8$
- 111.** Evaluate $\frac{\text{Log}_8}{\text{Log}_{\frac{1}{4}}}$
- 2
 - $-\frac{3}{2}$
 - $\frac{1}{2}$
 - 4
 - 2

- 112.** Find the values of X for which $\frac{1}{2x^2 - 13x + 15}$ is undefined.
- 5 or $\frac{3}{2}$
 - 1 or $\frac{15}{2}$
 - 2 or 15
 - 13 or 15
 - 5 or 15
- 113.** An athlete runs to the top of a hill and back down. His average speed uphill is 6km/hr and his average speed downhill is 12km/hr. What is the average speed for the whole journey?
- 6 km/hr
 - 7 km/hr
 - 8 km/hr
 - 9 km/hr
- 114.** If $\frac{3^{(1-n)}}{9 \cdot 2^{2n}} = \frac{1}{9}$ find n
- $-\frac{3}{2}$
 - $\frac{1}{3}$
 - 1
 - 3
 - 3
- 115.** The volume scale factor of two similar solids is 8:125. If the length of a side in the bigger solid is 140cm, find the length of the corresponding side of the smaller solid.
- 28cm
 - 56cm
 - 122cm
 - 132cm
 - 133cm
- 116.** Evaluate $\cos 45^\circ \cos 30^\circ - \sin 45^\circ \sin 30^\circ$ leaving the answer in Surd Form
- $\frac{\sqrt{2}-1}{2}$
 - $\frac{\sqrt{3}-\sqrt{2}}{4}$
 - $\frac{\sqrt{6}-\sqrt{2}}{2}$
 - $\frac{\sqrt{6}-\sqrt{2}}{4}$

- 117.** A Man made a loss of 15% by selling an article for ₦595. Find the cost price of the article ?
- ₦600.00
 - ₦684.25
 - ₦700.00
 - ₦892.50
- 118.** A school girl spends $\frac{1}{4}$ of her pocket money on books and $\frac{1}{3}$ on dress. What fraction remains ?
- $\frac{5}{6}$
 - $\frac{7}{12}$
 - $\frac{5}{12}$
 - $\frac{1}{6}$
- 119.** If $(\frac{1}{4})^{(2-y)} = 1$, find y.
- 2
 - $\frac{1}{2}$
 - $\frac{1}{2}$
 - 2
- 120.** In a class of 36 students, 30 students like rice, 12 students like cassava and 1 student likes neither cassava nor rice. How many students like both cassava and rice?
- 1
 - 7
 - 12
 - 13
- 121.** The equation $ax=a+2x$ has a solution for all values of a except.
- $a=2$
 - $a=0$
 - $a=-1$
 - $a=-2$
- 122.** Each interior angle of a regular polygon is 108° . How many side has it ?
- | | |
|------|-------|
| a. 5 | c. 9 |
| b. 7 | d. 14 |

- 123.** Find the mean of 9, 13, 16, 17, 23, 24
- a. 23.00
 - b. 17
 - c. 16.50
 - d. 16.33
- 124.** If $y = 3x + 1$, $Z = 3x - 4$, and, $3x + y + z = 96$, find the numerical value of x .
- a. 11
 - b. 12
 - c. 13
 - d. 14
- 125.** What is the area, in square feet, of the triangle whose sides have lengths equal to 10, 6 and 8 feet?
- a. 480
 - b. 24
 - c. 48
 - d. 30
 - e. 40
- 126.** Of the 80 students in class, 25 are studying German, 15 French and 13 Spanish. 3 are studying German and French; 4 are studying French and Spanish; 2 are studying German and Spanish; and none is studying all 3 languages at the same time. How many students are not studying any of the three languages?
- a. 27
 - b. 18
 - c. 53
 - d. 62
 - e. 36
- 127.** Sonsiama had some money saved. Starting the first week of June, he saved \$6.00 a week for a new bicycle. At the end of 16 weeks he had a total of \$141.00 saved. How much did he save before June.
- a. \$8.44
 - b. \$8.81
 - c. \$45.00
 - d. \$96.00
 - e. \$8.80
- 128.** A car which cost \$8,998 when brand new depreciates by about 13% in the first 6 months. Find its value after 6 months to the nearest \$100.
- a. \$6,900
 - b. \$7,700
 - c. \$7,800
 - d. \$8,800
- 129.** A bonus issue of ordinary shares on the basis of three new shares for every five held has been made by a company.

What will be the increase in the number of shares of an investor who originally had 75,000 ordinary shares?

- a. 15,000
- b. 25,000
- c. 45,000
- d. 75,000

130. Approximate 5.7255 to the nearest thousandth

- a. 5.7
- b. 5.725
- c. 5.7255
- d. 5.726
- e. 5.73

131. Express 0.00254 in standard form.

- a. 2.54×10^{-1}
- b. 2.54×10^{-2}
- c. 2.54×10^{-3}
- d. 2.54×10^{-4}
- e. 2.54×10^{-5}

132. If ₦240,000.00 is shared among 3 people in the ratio 5:4:3, what is the least share?

- a. ₦100,000.00
- b. ₦96,000.00
- c. ₦80,000.00
- d. ₦60,000.00
- e. ₦52,000.00

133. If N varies directly as M and N=8 when M=20, find M when N=7.

- a. 13
- b. 15
- c. $17\frac{1}{2}$
- d. $18\frac{1}{2}$

134. Find the simple interest on ₦30,000.00 for $3\frac{1}{2}$ years at 5% per annum

- a. ₦5,250.00
- b. ₦5,775.00
- c. ₦10,750.00
- d. ₦11,550.00
- e. ₦15,770.00

135. The n^{th} term of a sequence is 2^{2n-1} . Which term of the sequence is 2^9 ?

- a. 3rd
- b. 4th
- c. 5th
- d. 6th

- 136.** Find the value of x in $0.5x + 2.6 = 5x + 0.35$
- a. 0.5
 - b. 2
 - c. 2.6
 - d. 5
- 137.** If $M_{5\text{ten}} = 1001011_{\text{two}}$, find the value of M
- a. 5
 - b. 6
 - c. 7
 - d. 8
- 138.** The ratio of the number of men to the number of women in a 20 member committee is 3:1. How many woman must be added to the 20-member committee so as to make the ratio of men to women 3:2?
- a. 2
 - b. 5
 - c. 7
 - d. 9
- 139.** If $(x + 3)$ varies directly as y and $x = 3$ when $y = 12$, what is the value of x when $y = 8$?
- a. 1
 - b. $\frac{1}{2}$
 - c. $-\frac{1}{2}$
 - d. - 1
- 140.** Factorize $m(2a-b) - 2n(b-2a)$
- a. $(2a-b)(2n-m)$
 - b. $(2a+b)(n-2n)$
 - c. $(2a-b)(m+2n)$
 - d. $(2a-b)(m-2n)$
- 141.** The number of goals scored by a school team in 10 netball matches are as follows: 3,5,7,7,8,8,8,11,11,12. Find the probability that in a match, the school team will score at most 8 goals.
- a. $\frac{7}{10}$
 - b. $\frac{2}{5}$
 - c. $\frac{3}{5}$
 - d. $\frac{1}{5}$
- 142.** Which of the following is **NOT** a rational number?
- a. - 5
 - b. $\sqrt{4}$
 - c. $3\frac{3}{4}$
 - d. $\sqrt{90}$

The table below gives the distribution of marks obtained by a number of pupils in a class test

Marks	0	1	2	3	4	5
Frequency	4	7	12	18	11	8

Use the information to answer question 142 to 144

- 143.** The Mode of the distribution is
a. 3
b. 5
c. 8
d. 18
- 144.** Find the median of the distribution
a. 1
b. 2
c. 3
d. 4
- 145.** How many pupils scored at least 2 marks?
a. 12
b. 23
c. 37
d. 49
- 146.** Find the value of x which satisfies the equation $5(x-7)=7-2x$
a. $x = 2$
b. $x = 4$
c. $x = 6$
d. $x = 14$
- 147.** Evaluate $\frac{\log 8}{\log(\frac{1}{4})}$
a. -2
b. $-\frac{3}{2}$
c. $\frac{1}{2}$
d. 4
- 148.** Which of the following is/are not the interior angle(s) of a regular polygon? I. 108° II. 116° III. 120°
a. I only
b. II only
c. III only
d. I and III only

- 149.** The bearing of P from Q is x , where $270^\circ < x < 360^\circ$. Find the bearing of Q from P.
- a. $(x - 90)^\circ$
 - b. $(x - 270)^\circ$
 - c. $(x - 135)^\circ$
 - d. $(x - 180)^\circ$
- 150.** Which of the following is **NOT** a measure of dispersion?
- a. Range
 - b. Mean Deviation
 - c. Mean
 - d. Standard Deviation
- 151.** Given that $\sin (5x-28)^\circ = \cos (3x-50)^\circ$ $0 < x < 90^\circ$, Find the value of x .
- a. 14°
 - b. 21°
 - c. 32°
 - d. 39°

ENGLISH LANGUAGE



SECTION ONE

In the following passage, the numbered gaps indicate missing words. Against each number in the list below the passage, four options are offered in columns lettered A to D. For each question, choose the option that is the most suitable to fill the numbered gap in the passage.

As soon as I took the newspaper from the 1, I quickly 2 through the pages, and stopped at the sports page. There, the picture of Marvin Hagler, the boxer, attracted me. He was preparing for the 3 of his title. The 4 harped on Hagler's previous fights and 5 an easy victory over his 6. I then read through the 7 which usually states the paper's opinion on current issues. The 8 were very many, with some of them taking up full pages. There was only one 9 by an artist whose intention was clearly to 10 readers. There was also a full page 11 announcing the death of a prominent chief. In the column for serious-minded readers was a 12 on political transition, one of the 13 issues of the time.

S/N	A	B	C	D
1	Trader	Dealer	Vendor	Printer
2	Perused	Studies	Stared	Flipped
3	Victory	Attack	Protection	Defence
4	Correspondent	Writer	Editor	Publisher
5	Predict	Prophesied	Imagined	Expression
6	Antagonist	Opponent	Protagonist	Attacker
7	Communique	Propaganda	Editorial	Resolution
8	Commercials	Announcement	Advertisement	Exhibits
9	Drawings	Cartoon	Sketch	Caricature
10	Amuse	Abuse	Annoy	Stimulate
11	In memorian	Requiem	Obituary	Funeral
12	Caption	Commentary	Edition	Feature
13	Contemporary	Controversial	Competitive	Debatable

SECTION TWO

In the following passage, the numbered gaps indicate missing words. Against each number in the list below the passage, four choices are offered in columns lettered a to d. For each question, choose the option that is the most suitable to fill the numbered gap in the passage.

In the library, books are kept in numbered stacks which are sets of numbered 1. Each book, journal or document is 2 according to its subject. It is also numbered according to its place in the library and entered the 3 of the library. This is a list of all the library's 4. The catalogue may be written or printed on 5. However, more and more libraries are keeping their catalogue in a 6. Most libraries keep both 7 and 8.

A person permitted to use a particular library is given a numbered 9. Books, documents or journals may be read at 10 in the library. In many cases books may be 11 and taken out the library to reader's home for a fixed period, which the librarian may 12, unless the book has been requested by another reader. But a reader who keeps book out too long may have pay a 13.

S/N	A	B	C	D
1	Tables	Benches	Shelves	Cupboard
2	Arranged	Classified	Stocked	Put
3	Order	Cabinet	File	Catalogue
4	Materials	Books	Acquisitions	Tables
5	Books	Entry cards	Library cards	Cards
6	Microfilm	Computer memory	Library cards	Catalogue
7	Author catalogue	Index number	Classified catalogue	Index
8	Index	Author catalogue	Index number	Subject catalogue

9	Index card	Catalogue cards	Library card	Subject card
10	Reading room	Catalogue room	Lending table	Study room
11	Stolen	Lent	Borrowed	Vandalized
12	Prolong	Protrude	Extend	Elongate
13	Due	Fine	Some money	Card

SECTION THREE

In the following passage, the numbered gaps indicate missing words. Against each number in the list below the passage are option labeled A to D. For each question, choose the option that is the most suitable to fill the numbered gap in the passage.

An airport consists of a large space where 1 are provided, 2 where aircraft are serviced and a 3. This contains the offices of airport authority, facilities for passengers who are embarking or disembarking and a 4.

In 5, the pilot must follow internationally-recognized flight paths and when in the vicinity of an airport, must obey orders 6 to him by air traffic control from the airport 7 about the speed, direction and 8 of his plane. He is also informed about 9 along his 10 and at his 11.

S/N	A	B	C	D
1	Speedways	Highways	Runways	Plane ways
2	Hangars	Control towers	Garages	Workshops
3	Control building	Terminal building	Towers	Terminal towers
4	Airline tower	Hangers	Weather control	Control tower
5	Running	Flying	Flight	Packing
6	Communicated	Radioed	Conveyed	Contacted

7	Control tower	Landing control tower	Runway	Hanger
8	Height	Altitude	Speed	Balance
9	Weather condition	Cockpit condition	Engine condition	Wings condition
10	Road	Way	Route	Clouds
11	Destination	Bus-stop	Place	Exit

SECTION FOUR

In the following passage, the numbered gaps indicate missing words. Against each number in the list below the passage, five choices are offered in columns lettered A to D. For each question, choose the option that is the most suitable to fill the numbered gap in the passage.

The 1 which will supply the town with electricity is situated by a natural waterfall. The buildings have already been erected, less than a year after the 2 of the site, and the 3 will be 4 during the next few weeks. It will consist of a set of water 5 and two diesel 6; the latter will be kept 7 for use when the water -level is abnormally low. The overhead 8 for carrying the current are already in place. The whole scheme has been carefully planned from the 9 point of view, and it is estimated that the 10 cost will be recovered from profits in five years.

S/N	A	B	C	D	E
1	Transformer	Power-station	Work shop	Factory	Pumping-engine
2	Devastation	Foundation	Clearance	Alleviation	Planning
3	Contrivances	Upholstery	Plant	Stock	Planning
4	Lodged	Deposed	Integrated	Implanted	Installed
5	Mills	Engines	Motors	Turbines	Propellers
6	Incubators	Generators	Cylinders	Batteries	Winches
7	In reverse	In check	In subservience	On secondment	In emergency
8	Cables	Telegraph-wires	Filament	Tendons	Cords
9	Economic	Economical	Profitable	Profiteering	Mercenary
10	Running	Extraordinary	Capital	Liable	Expendable

SECTION FIVE

Choose the option that best conveys the meaning of the underlined portion in each of the following sentence:

1. Only the small fry get punished for such social misdemeanours
 - a. Small boys
 - b. Unimportant people
 - c. Frightened people
 - d. Frivolous people
 - e. Inexperienced people
2. He spoke with his heart in his mouth
 - a. Courageously
 - b. With such unusual cowardice
 - c. With a lot of confusion in his speech
 - d. Without being able to make up his mind
 - e. With fright and agitation
3. This bill has to wait as we are now insolvent
 - a. Overworked
 - b. Bankrupt
 - c. Unsettled
 - d. Insoluble
 - e. Affluent
4. He was appointed specifically to put the recruits through
 - a. Assign them to work
 - b. Train them
 - c. Discipline them
 - d. Assist them at work
 - e. Supervise them at work

Choose the expression or word which best complete each sentence

5. for the team for six years, he decided to join another
 - a. When he played

- b. Playing
 - c. Having played
 - d. In playing
 - e. When he was playing
6. The bridge connecting the two cities was by the enemy
- a. Blown up
 - b. Blown down
 - c. Blown off
 - d. Blown over
 - e. Blown away
7. My little boy is suffering Jaundice
- a. From
 - b. Of
 - c. For
 - d. With
 - e. By
8. If he had left home earlier, he Late.
- a. Would not be
 - b. Would have not been
 - c. Would not been
 - d. Would have been not
 - e. Would not have been

Fill in the blanks spaces in the following sentences making use of the best of the five Option.

9. The telephone..... In the nineteenth century and is now used in most countries in the world.
- a. Had been invented
 - b. Was invented
 - c. Would have been invented
 - d. Has been invented
 - e. Was being invented

- 10.** In the past his father used to walk but nowadays he to work by bicycle
- Was going
 - Is going
 - Seldomly goes
 - Goes
 - Has gone
- 11.**, it might not look so rosy proposition.
- From his viewing proposal
 - When he views the proposal
 - Having view the proposal
 - From his point of view
 - From his seeing it
- 12.** If we went to any European country,..... Britain, we should need a substantial amount of money to pay our way
- Like
 - Let us say
 - As an example
 - Like say
 - If we say
- 13.** The horse is a winner,.....
- You can take that from me
 - You can say i say so
 - You can take my word for it
 - It is my word against theirs
 - You may or may not believe it

Complete the sentences with the correct options from the list below

- 14.** listening to the news when I came in.
- There were
 - There was
 - It was
 - There are going to be
 - They were

- 15.** They said that about 20 candidates for the job of a shorthand typist.
- a. They were
 - b. It will be
 - c. There were
 - d. It was
 - e. There are
- 16.** He told me to go on till seven
- a. To work
 - b. Worked
 - c. Works
 - d. Working
 - e. Work
- 17.** Many goods.....tape recorders and cameras find a ready market in every country
- a. Like
 - b. Such a
 - c. Such as
 - d. Such
 - e. As
- 18.** He acts.....he were a general manger
- a. as
 - b. if
 - c. as if
 - d. so as
 - e. That
- 19.** For their part in the unsuccessful..... the mutineers were court-martialled
- a. Coopes
 - b. Coupes
 - c. Coupe
 - d. Coup
 - e. Coupes

Fill in the blank spaces in the following sentences making use of the best of the five options.

- 20.** Theyour donation with thanks
a. Receifed
b. Recived
c. Received
d. Receved
e. Receipt
- 21.** The chairman ruled the impertinent speaker
a. according to order
b. out of order
c. contrary to order
d. disorderly
e. correctly
- 22.** Your approach to the problem is different..... ours
a. as
b. like
c. from
d. because of
e. to
- 23.** You surely want..... in your tea, don't you?
a. all milk
b. a milk
c. some milk
d. every milk
e. any milk

Choose the word or phrase from A to E which has the Nearest meaning to the Underline word or words in each sentence

- 24.** He used is savings to bring up his nephew.
a. Lead
b. Accompany
c. Feed
d. Support
e. Conduct

25. Mary is jealous of her sister's success.
- a. Suspicious
 - b. Bitter
 - c. Careful
 - d. Mindful
 - e. Envious
26. The doctor was very gentle with his patients in the examining room.
- a. Harsh
 - b. Rude
 - c. Rough
 - d. kind
 - e. Callous
27. James is a disco-addict. He takes his studies rather lightly
- a. Humorously
 - b. Gloomily
 - c. Tediously
 - d. Carefully
 - e. unserious

Fill the blank spaces with the most appropriate of options A-E

28. Monisola is sure to pass in September. She.....hard since the beginning of this term.
- a. Had been working
 - b. Was working
 - c. Is working
 - d. Would work
 - e. Has been working
29. Will you know if that dog is.....? He has lost a brown and black one.
- a. Adebowale's
 - b. Adebowales'
 - c. Adebowales's own
 - d. The adebowales'
 - e. The adebowale's

30. The students in my junior class seem to have performed----- they did last year
- as brilliant as
 - more brilliant than
 - as brilliantly
 - brilliant than
 - same brilliant as
31. After the 1980 Ogunpa flood, our association received many letters from those adversely affected and we resolved to
- assist them
 - invite them
 - respond them
 - pity them
 - query them
32. Jane and Jarawa lovevery mush
- themselves
 - each other
 - one another
 - their selves
 - each others

Choose the word or phrase from options A- E which has the nearest meaning to the underlined word or words in each sentence.

33. The minister hit on a plan to retain his post after many months of lobbying
- beat a plan
 - drew up a plan
 - discovered a plan
 - selected a plan
 - designed a plan
34. The students decided to go without breakfast in order to save money for the needy. They decided to
- travel and leave their breakfast at home
 - go outside for breakfast

- c. go for lunch rather than breakfast
- d. forgo breakfast
- e. reject breakfast

35. The story has been taken with a grain of salt. This means that

- a. You need some salt to listen to the story
- b. There is not salt in the story
- c. The story is questionable
- d. The story is true
- e. You have too much salt in the story

36. It is usually hard to change the course of action when one crosses the Rubicon. The underline expression, as used in this sentence means to

- a. Pass through a place called rubicon
- b. Cross a river
- c. Cross a bridge called rubicon
- d. Pass a special test
- e. Be irrevocably committed.

37. The sales man tried to pull the wool over my eye. This implies that the sales man try to

- a. Force me to buy his goods
- b. Offer me cotton wool
- c. Make me buy his wool
- d. Pull the wool into my eye
- e. Cover my eyes with wool

38. Ijeoma counted her chickens before they were hatched. This means that ijeoma

- a. Regarded each egg has a chicken
- b. Hatched the eggs prematurely
- c. Assumed that her expectation had already been realized
- d. Protected her eggs from breaking
- e. Insured the eggs

39. Solo has resigned his job with the textile mills. He doesn't seem to worry getting another job. His plan are still quite in the air. This means that his plans are:
- Airmailed
 - Airtight
 - Uncertain
 - Certain
 - Airborne
40. Old customs die hard. This implies that old customs
- cause a lot of hardship and death
 - Must be stopped
 - Never die out
 - Cause hardship for younger people
 - Tend to last for long time

In questions 41 to 42 choose the expression or word which best completes each sentence.

41. After the initial confusion, the manager's suggestion brought..... to the depressed investor.
- A glitter of hope
 - A glimmer of hope
 - A sparkle of hope
 - A raise of hope
 - A shower of hope
42. The farmer has brought the insecticide because he was bent on the insects in his farm .
- exterminating
 - estimating
 - extenuating
 - extinguishing
 - exemplifying

In questions 43 to 45 choose the option nearest in meaning to the underlined

- 43.** The meeting was cancelled because of the convocation.
a. brought up
b. called off
c. broke off
d. dropped out
e. phased out
- 44.** Our town is so small that we are always meeting our schoolmates accidentally
a. coming across
b. falling into
c. knocking up
d. running up
e. running into
- 45.** Can you give a good explanation for your behavior?
a. account for
b. call for
c. clear up
d. make up
e. give up
- 46.** Be careful! We are approaching the crossroads.
a. lookup
b. watch out
c. look out
d. hold up
e. look in
- 47.** Thousands of students are candidates for the examination but only very few pass.
a. come into
b. call for
c. go into
d. enter for
e. turn up for

Choose the expression which Best Completes each Sentence

- 48.** My uncle told me, 'i have a large house and you are welcome to the protection it offer's. My uncle told me that
- a. He had a large house, and you are welcome to the protection it offers
 - b. He have large house, and i was welcome to the protection it offered
 - c. Had a large house and he was welcomed to the protection it offeres
 - d. He had a large house, and i was welcome to the protection it offered
 - e. He has a large house, and i am welcome to the protection it offered.
- 49.** The manager said that unless the employees work harder the factory would have to be closed. The manager said that
- a. The employees were not working hard, and so the factory would be close
 - b. The employees should not close early so that they could produced more
 - c. The factory was not productive because the employees were lazy
 - d. The factory would be shut if the employees did not increase the output
 - e. The factory was closed because the employees did not work enough

Choose the expression or word which best completes each sentence

- 50.** The student who went home without an excuse has apologized his misconduct
- a. on
 - b. at
 - c. to
 - d. for
 - e. about

- [illegible]

Choose the option opposite in meaning to the word underlined

58. To most people last Christmas was an austere period.
- | | | |
|---------------|-----------|----------|
| a. Prosperous | c. Severe | e. Stern |
| b. Harsh | d. Sour | |

59. The chief was generous in his award of university scholarships.
- noble
 - considerate
 - liberal
 - mean
 - honest
60. Chidi is naturally taciturn.
- friendly
 - cheerful
 - dumb
 - lively
 - garrulous
61. The military governor upheld the decision of his cabinet.
- held up
 - undercut
 - maintained
 - abolished
 - reversed
62. Many untrustworthy students give evasive answers to questions which they fully understand
- direct
 - outspoken
 - simple
 - truthful
 - clever
63. This card entitles you to attend the film show
- Disqualifies
 - Discourages
 - Disenchants
 - Proclaims
 - Satisfies
64. He took exception to Exenwa's remark.
- Was delighted at

- b. Was excited by
 - c. Got demoralized by
 - d. Objected to
 - e. Was perplexed by
- 65.** Kelechi hardly ever falls sick.
- a. Most often
 - b. Very seldom
 - c. Sometimes
 - d. Frequently
 - e. Occasionally
- 66.** The gallant solders met their waterloo at Philippine.
- a. Victory
 - b. Trouble
 - c. Defeat
 - d. Happiest period
 - e. Energy

In questions 67 to 80 choose the option opposite in meaning to the word(s) underline.

- 67.** Mr. Jack was most flexible in his instruction.
- a. Rigid
 - b. Correct
 - c. Stiff
 - d. Upright
- 68.** The university has offered temporary accommodation to its staff.
- a. Popular
 - b. Permanent
 - c. Recognize
 - d. Regular
- 69.** Mary complained that she slept on the coarse floor
- a. Smooth
 - b. Rough

- c. Bad
- d. Harsh
- 70. Jim was one of the spectators at the concert.
 - a. Ushers
 - b. Judges
 - c. Guests
 - d. Performers
- 71. The governor declined to give audience to the journalist.
 - a. Ignored
 - b. Accepted
 - c. Forgot
 - d. Rejected
- 72. The debtor's husband is liable for his wife's debts
 - a. Unanswerable
 - b. Responsible
 - c. Unquestionable
 - d. Accountable
- 73. The lotion recommended by the doctor soothed Okon's aching tooth.
 - a. Calmed
 - b. Extracted
 - c. Excited
 - d. Worsened
- 74. He was locked up for a fortnight
 - a. Released
 - b. Punished
 - c. Remanded
 - d. Locked out
- 75. The lady acted courageously when thieves attacked her.
 - a. Shyly
 - b. Fearlessly
 - c. Indiscreetly
 - d. Timidly

76. The house -wife was always hard up before the end of each month
- Upset
 - Penniless
 - Borrowing
 - In no need
77. The retired general become a hard -nosed officer after fighting the war.
- Tough
 - Weak
 - Indifferent
 - Bed-ridden
78. My brother' is primary school foundation was solid and this influenced his secondary education
- Sound
 - Sordid
 - Shaky
 - Weak
79. It is claimed that there is an extinct volcano near Pankshin.
- Extinguished
 - active
 - Dead
 - Discussed
80. We have to identify the protagonists of the new movement
- Enemies
 - Leading figures
 - Opponents
 - Believers

GENERAL SCIENCE



Time Allowed: 2 Hour

1. An ice cube floats in a glass of water filled to the brim. What happen when the ice melts?
 - a. The water level remain the same
 - b. There is a drop in the level of water in the glass due to condensation on it outside
 - c. The water in the glass overflows
 - d. The level of water drops because melted ice occupies less volume
 - e. None of the above is correct
2. The frictional force between two bodies
 - a. Exists only when there is relative motion or tendency for motion
 - b. Acts so as to oppose the motion
 - c. Depends on the normal reaction between the two surfaces
 - d. Is relatively independent of the area in contact
 - e. Has all of these characteristics
3. A 500 kg car which was initially at rest travelled with an acceleration of 5 m sec^{-2} , it's kinetic energy after 4 seconds
 - a. 10^5 J
 - b. $2.5 \times 10^3\text{ J}$
 - c. $2 \times 10^3\text{ J}$
 - d. $5 \times 10^3\text{ J}$
 - e. $5 \times 10^5\text{ J}$
4. A man standing between two parallel mirrors in Berber's shop would see the following numbers of his own image
 - a. Eight
 - b. Two
 - c. Four
 - d. One
 - e. Infinite
5. A pressure cooker saves both time and fuel in cooking inside the cooker, the
 - a. The boiling point of water raised

- b. Pleasure is constant
 - c. Heat is completely trapped
 - d. Temperature is evenly distributed
 - e. Volume of steam varies.
- 6.** In sunlight, a blue flower looks blue because we see the flower by the light it
- a. Receives from our eye
 - b. Disperses
 - c. Absorbs
 - d. Refracts
 - e. Reflect
- 7.** The following types of waves are all transverse expect
- a. Light waves
 - b. Radio waves
 - c. Sound waves
 - d. Surface waves on water
 - e. X-rays.
- 8.** An example of scalar quantity is
- a. Velocity
 - b. Weight
 - c. Electric charge
 - d. Acceleration due to gravity
 - e. Momentum.
- 9.** The combination of sound waves with different frequency is known as
- a. Interference
 - b. Diffraction
 - c. Superposition
 - d. Forced vibrations
 - e. Resonance
- 10.** The area under a force-distance graph represents
- a. Acceleration
 - b. Velocity
 - c. Power

- d. Work
 - e. Momentum
- 11.** Which of the following is NOT a vector quantity?
- a. Force
 - b. Altitude
 - c. Weight
 - d. Displacement
 - e. Acceleration
- 12.** The force with which an object is attracted to the earth is called its
- a. Acceleration
 - b. Mass
 - c. Gravity
 - d. Impulse
 - e. Weight
- 13.** Which of the following components is NOT contained in a dry cell?
- a. Carbon rod
 - b. Paste of magnesium dioxide
 - c. Paste of ammonium chloride
 - d. Zinc case
 - e. Copper rod
- 14.** If a solid changes directly into a gas when heat is applied the process is called
- a. Vaporization
 - b. Evaporation
 - c. Sublimation
 - d. Ionization
 - e. Conversion
- 15.** Which of the following is NOT a fundamental S.I. unit?
- a. Metre
 - b. Ampere
 - c. Kelvin
 - d. Seconds

- e. Radian
- 16.** Which of the following is NOT a force?
 - a. Friction
 - b. Tension
 - c. Upthrust
 - d. Weight
 - e. Impulse
- 17.** Which of the following is a derived unit?
 - a. Kilogramme
 - b. Metre
 - c. Kelvin
 - d. Newton
- 18.** The mode of heat transfer which does not require a material medium is
 - a. Conduction
 - b. Radiation
 - c. Convection
 - d. Propagation
- 19.** The vacuum is a thermos flask helps to reduce heat transfer by
 - a. Convection and radiation
 - b. Convection and conduction
 - c. Conduction and radiation
 - d. Radiation only
- 20.** When a transformer has more secondary windings than primary windings, it
 - a. Has a smaller secondary current
 - b. Has a greater power output
 - c. Is a step down transformation
 - d. Increase the total energy output
- 21.** The product PV where P is pressure and V is volume has the same unit as
 - a. Force
 - b. Power
 - c. Energy

- d. Acceleration
- 22.** Which of the following factor affect the speed of sound in air? I Temperature II pressure III Frequency
- I only
 - II only
 - I and II only
 - II and III only
- 23.** Which of the following is a set of vectors?
- Force, mass and moment
 - Acceleration, velocity and moment
 - Mass, weight and density
 - Mass, volume and density.
- 24.** When a yellow card is observe through a blue glass, the card would appear.
- Black
 - Green
 - Red
 - White
- 25.** When light is incident on an object which is magenta in colour, which of the following colours would be absorbed?
- Red and blue
 - Green only
 - Red and green
 - Red only
- 26.** Which of the following is a vector?
- Electric charge
 - Electric field
 - Electric potential difference
 - Electric capacitance
- 27.** Which of the following is TRUE of light and sound waves?
- They both transmit energy
 - They both need medium for propagation
 - They are both transverse waves
 - Their velocity in air are equal

- 28.** When the bottom tip of vibrating tuning fork is held in contact with wooden box, a louder sound is heard. This phenomenon is known as
- Beats
 - Echoing
 - Resonance
 - Reverberation.
- 29.** What is the least possible error in using a rule graduated in centimeters?
- 0.1 cm
 - 0.5 cm
 - 1.0 cm
 - 2.0 cm
- 30.** At constant pressure, the density of a fixed mass of a gas is
- Constant with temperature
 - Proportional to its volume
 - Inversely proportional to its temperature
 - Independent of its volume.
- 31.** Which of the following waves can propagate through a vacuum?
- High velocity sound waves
 - Ultrasonic waves
 - Acoustic waves
 - Infra-red waves
- 32.** A simple cell with mercury amalgamated zinc electrode prevents
- Local action
 - Polarization
 - Buckling
 - Degradation
- 33.** A cone in an unstable equilibrium has its potential energy
- Decreased
 - Increased
 - Unchanged
 - Oscillating

- 34.** Which of the following has the lowest internal resistance when new?
- a. Leclanche cell
 - b. Daniel cell
 - c. Accumulator
 - d. Torch battery
- 35.** When a ball rolls on a smooth level ground, the motion of its centre is
- a. Translational
 - b. Oscillatory
 - c. Radom
 - d. Rotational.
- 36.** Which of the following is the exclusive property of a transverse wave?
- a. Diffraction
 - b. Refraction
 - c. Compression
 - d. Polarization
- 37.** Ripple on water and light waves are similar because both
- a. Have the same frequency
 - b. Can be refracted and diffracted
 - c. Are longitudinal waves
 - d. Have same velocity
- 38.** One of the features of the fission process is that
- a. Its products are not radioactive
 - b. Its leads to chain reaction
 - c. Neutron are not released
 - d. The sum of the masses of reactants equals the sum of masses products.
- 39.** The physical quantity that has the same dimensions as impulse is
- a. Energy
 - b. Momentum
 - c. Surface tension

- d. Pressure
- 40. The most suitable type of mirror used for construction of a searchlight is the
 - a. Concave mirror
 - b. Convex mirror
 - c. Spherical mirror
 - d. Parabolic mirror
- 41. The inner diameter of a small test tube can be measured accurately using a
 - a. Micrometer screw gauge
 - b. Pair of dividers
 - c. Metre rule
 - d. Pair of vernier clipper
- 42. Which of the following electromagnetic waves is least energetic?
 - a. Infra-red rays
 - b. X-rays
 - c. Ultra-violet rays
 - d. Gamma rays
- 43. When a ship sails from salt water into fresh water, the fraction of it's volume above the water surface will
 - a. Remain the same
 - b. Increase
 - c. Decrease
 - d. Increase then decrease.
- 44. The main reason for making the cover of a vacuum flask airtight is to prevent heat loss by
 - a. Conduction
 - b. Evaporation
 - c. Radiation
 - d. Convection
- 45. Ice cubes are added to a glass of warm water. The glass and water are cooled by
 - a. Conduction only

- b. Convection only
 - c. Conduction and convection
 - d. Convection and radiation
- 46.** The thermometric substance of an absolute thermometer is
- a. Alcohol
 - b. Mercury
 - c. Helium
 - d. Platinum
- 47.** If the total force acting on a particle is zero, the linear momentum will
- a. Increase then decreased
 - b. Be constant
 - c. Increase
 - d. Decease
- 48.** Water is a poor thermometric liquid because it
- a. Has low vapour pressure
 - b. Is opaque
 - c. Is a poor conductor
 - d. Wets glass.
- 49.** Water does not drop through an open umbrella of silk material unless the inside of the umbrella is torched. This is due to
- a. Capillarity
 - b. Osmotic pressure
 - c. Viscosity
 - d. Surface tension.
- 50.** A piece of stone attached to one end of string is whirled round in a horizontal circle and string suddenly cuts. The stone will fly off the same direction
- a. Perpendicular to the circular path
 - b. Parallel to the circular path
 - c. Tangential to the circular path
 - d. Towards the centre of the circle.
- 51.** Which of the following is not classified as a terrestrial habitat?

- a. Forest
 - b. Guinea savannah
 - c. Afro Alpine
 - d. Littoral zone
 - e. Desert
- 52.** Which of the following is not an evidence of evolution?
- a. Fossil
 - b. Anatomy
 - c. Embryology
 - d. Genetics
 - e. Behaviours
- 53.** Which of the following is the function of the hormone in the islet of langerhans?
- a. It is used in protein metabolism
 - b. It is involved in sugar synthesis
 - c. It aids the rate at which glucose is converted to glycogen
 - d. It controls the fluid content of the body
 - e. It plays a role in the pH balance of the body fluid.
- 54.** Which of the following is not an effect of overcrowding on a population?
- a. Death
 - b. Competition
 - c. Commensalism
 - d. Aggression
 - e. Cannibalism
- 55.** The term aforestation is used in describing
- a. Harvesting of natural resources
 - b. Planting trees of value to man
 - c. Fallowing of forestland
 - d. Felling of trees in the forest
 - e. Recycling waste forest products.
- 56.** Which of the following structures controls the activities of the living cell?
- a. Nucleus

- b. Centrosome
 - c. Chloroplast
 - d. Golgi body
 - e. Mitochondrion
- 57.** The increase in width of blood vessels in the mammalian skin at high temperature is known as
- a. Vasodilation
 - b. Sweating
 - c. Vasoconstriction
 - d. Shivering
 - e. Evaporation
- 58.** Which of the following types of soil has the highest water-retaining capacity?
- a. Clay
 - b. Laterite
 - c. Loamy
 - d. Gravel
 - e. Sand
- 59.** The process of anaerobic respiration of yeast in sugar solution is known as
- a. Oxidation
 - b. Fermentation
 - c. Tissue respiration
 - d. Alcohol production
 - e. Decomposition
- 60.** Which of the following is not part of the female reproductive system?
- a. Ovary
 - b. Seminal vesicle
 - c. Uterus
 - d. Vagina
 - e. Fallopian tube
- 61.** Which of the following limiting resources is completed for by organisms in the desert?

- a. Light
 - b. Temperature
 - c. Oxygen
 - d. Water
 - e. Carbon dioxide
- 62.** Which of the following processes is responsible for the increase in length and dry mass in a root tip?
- a. Meiosis
 - b. Absorption
 - c. Mitosis
 - d. Conjugation
 - e. Fermentation
- 63.** The series of activities preceding mating of male and female animals is generally known as
- a. Conjugation
 - b. Pairing
 - c. Courting
 - d. Nuptial flight
 - e. Territoriality
- 64.** Blood groups and tongue-rolling are examples of
- a. Continuous variation
 - b. Discontinuous variation
 - c. Variation due to environment
 - d. Adaptive variation
 - e. Sex-linked characters
- 65.** The organ which is sensitive to light in euglena is the
- a. Gullet
 - b. Chloroplast
 - c. Eye-spot
 - d. Contractile vacuole
 - e. Flagellum
- 66.** Which of the following water pollutant may contain organisms that cause dysentery?
- a. Pesticide

- b. Sewage
 - c. Industrial waste
 - d. Fertilizers
 - e. Crude oil
- 67.** Which of the following disease or disorders can be prevented by the application of the knowledge of heredity through marriage counseling?
- a. Sickle-cell anemia
 - b. Haemophilia
 - c. Diabetics mellitus
 - d. Colour blindness
 - e. River blindness
- 68.** The process by which plant manufacture food from carbon dioxide and water, using energy from the sun is termed?
- a. Chemosynthesis
 - b. Photosynthesis
 - c. Autotrophism
 - d. Heterotrophism
 - e. Transpiration
- 69.** Which of the following performs the same functions as the contractile vacuole of a unicellar organism?
- a. Kidney
 - b. Alimentary canal
 - c. Liver
 - d. Pancreas
 - e. Bladder
- 70.** Which of the following plants disease is indicated when grains of cereals are covered with a mass of spores?
- a. Smut
 - b. Mosaic
 - c. Maize streak
 - d. Fungal blast
 - e. Rust

- 71.** The distribution of organisms in a fresh-water habitat like a stream or pond is determined by the following except
- a. Rain fall
 - b. Temperature
 - c. pH of soils
 - d. Light penetration
 - e. Tidal movement
- 72.** At what level of organization is amoeba?
- a. Tissue
 - b. Organ
 - c. Cellular
 - d. System
 - e. Filament
- 73.** Hormones are transported around the mammalian body by
- a. Water
 - b. Nerves
 - c. Blood
 - d. Osmosis
 - e. Diffusion
- 74.** Which of the following is not a cell organelle
- a. Golgi body
 - b. Nucleus
 - c. Fat droplets
 - d. Ribosome
 - e. Endoplasmic reticulum
- 75.** Which of the following is the correct method of collecting soil organism
- a. Heating the soil sample in an oven
 - b. Aerating the soil sample
 - c. Refrigerating the soil for some hours
 - d. Pouring hot water on the soil to enable the organism float
 - e. Placing a lighted bulb over soil in a funnel
- 76.** Which of the following is social insect?
- a. Mosquito

- b. Butterfly
 - c. Honey bee
 - d. Grasshopper
 - e. Cockroach
- 77.** Which of the following is a product of brewing when yeast is used as a fermenting agent?
- a. Nitrogen
 - b. Oxygen
 - c. Malt
 - d. Ethanol
 - e. Sucrose and glucose
- 78.** Which of the following is a abiotic factor?
- a. Predation
 - b. Rain fall
 - c. Cropping
 - d. Grazing
 - e. Migration
- 79.** Bees communicate with one another to obtain information about the direction of food, source through
- a. Complicated set of dances
 - b. Smell
 - c. Contract note
 - d. Observation
 - e. Sounds
- 80.** Which of the following organisms exhibit both plant and animal characteristics
- a. Amoeba
 - b. Spirogyra
 - c. Mucor
 - d. Euglena
 - e. Moss
- 81.** Which of the following mammalian features act as a shock-absorber to developing embryo
- a. Amniotic fluid

- b. Umbilical cord
 - c. Placenta
 - d. Amnion
 - e. Chorion
- 82.** Which of the following plant's part is not a storage organ?
- a. Carrot root
 - b. Sugarcane stem
 - c. Onion leaf
 - d. Banana stem
 - e. Cassava root
- 83.** Which of the following disease result from the deficiency of insulin
- a. Cretinism
 - b. Goiter
 - c. Beri-beri
 - d. Diabetes
- 84.** A situation whereby some mammals remain inactive throughout dry and hot season is known as?
- a. Aestivation
 - b. Dormancy
 - c. Burrowing
 - d. Incubation
- 85.** Which of the following trait may not be important in marriage counseling
- a. Sex determination
 - b. Sickle-cell anemia
 - c. Rhesus factor
 - d. Colour of skin
- 86.** The following are the functions of supporting tissue in plants except
- a. Rigidity
 - b. Flexibility
 - c. Strengthening
 - d. Secretory

- 87.** Which of the following phenomenon affect plant growth in an alkaline soil
- Excessive plasmolysis
 - Excessive transpiration
 - Excessive sunlight
 - Poor drainage
- 88.** The character that expresses itself in the presence of contrasting character is
- Hybrid
 - Allele
 - Recessive
 - Dominant
- 89.** Which of the following will ease the friction between the ends of bone in a moveable joint
- Serum
 - Tissue
 - Blood plasma
 - Synovial fluid
- 90.** Wildlife conservation is enhanced by
- Enacting laws to encourage poaching
 - Discouraging elimination of endangered species
 - Encouraging creation of satellite hunting unit
 - Suppressing the activities of wildlife conservation agency
- 91.** Good quality food will perform the following function in human except
- Supplying energy
 - Providing resistance against malaria
 - Sustaining growth
 - Maintaining growth.
- 92.** Which of the following will have the least effect on the rate of change of the numbers in a population
- Food supply
 - Mutation
 - Predation

- d. Disease
- 93. The deficiency of vitamin D and calcium ions in the diet of a human causes
 - a. Anemia
 - b. Night blindness
 - c. Kwashiorkor
 - d. Rickets
- 94. Which of these organs can be considered vestigial in human but functional in other mammals? The
 - a. Liver
 - b. Appendix
 - c. Rectum
 - d. Stomach
- 95. In plant respiration occurs in
 - a. Mesophyll cells only
 - b. The root only
 - c. The stomata and lenticels only
 - d. All living cells
- 96. Which of the following processes does not contribute to the maintenance of the nitrogen content of the soil
 - a. Decomposition
 - b. Denitrification
 - c. Nitrification
 - d. Nitrogen fixation
- 97. The group of several population that interact and share a habitat, form
 - a. Species
 - b. Community
 - c. An ecotype
 - d. A tribe
- 98. The blood group in humans referred to as a universal recipient is
 - a. O
 - b. A

- c. B
 - d. AB
- 99.** Growth include the following processes except
- a. Differentiation
 - b. Enlargement
 - c. Mitosis
 - d. Meiosis
- 100.** The mode of nutrition common to green plants is
- a. Autotrophic
 - b. Heterotrophic
 - c. Holozoic
 - d. Saprophytic
- 101.** Which of the following bacteria lives in the root nodules of leguminous plants
- a. Azotobacter
 - b. Nitrobacter
 - c. Rhizobium
 - d. Nitrosomonas
- 102.** Primary growth in plants brought about the activities of the
- a. Meristem
 - b. Endodermis
 - c. Epidermis
 - d. Mesophyll
- 103.** Plant hormones include the following except
- a. Insulin
 - b. Auxin
 - c. Cytokinin
 - d. Gibberelin
- 104.** Many diseases caused by bacteria can be treated and cured by using
- a. Antiseptics
 - b. Antibiotics
 - c. Antigens
 - d. Antibodies

- 105.** The curvature movement of plants in response to the stimulus of water called
- Hydrotropism
 - Geotropism
 - Phototropism
 - Thigmotropism
- 106.** Which of the following organisms is an endoparasite?
- Mice
 - Mosquito
 - Ascaris
 - Dodder.
- 107.** In ecological succession, since lichens grow on bare rock, they are considered to be
- Primary consumers
 - Pioneer organisms
 - Climax organisms
 - Producers
- 108.** The organelle which eliminates water from the body of protozoan is the
- Plasma membrane
 - Contractile vacuole
 - Nucleus
 - Cell wall
- 109.** The axial skeleton is composed of the
- Skull and Vertebral column
 - Limbs and girdles
 - Atlas and axis
 - Radius and ulna
- 110.** The following are greenhouse gases except
- Carbon dioxide
 - Chlorofluorocarbon
 - Methane
 - Oxygen

- 111.** The branch of biology that deals with the principles of classification of organism is known as
- Biological index
 - Nomenclature
 - Taxonomy
 - Ecology
- 112.** Which of the following processes occurs in the second phase of meiosis?
- Homologous chromosomes separate
 - Two daughter cells are formed
 - Fertilization occurs
 - Segregation of genes occurs.
- 113.** The main raw materials necessary for photosynthesis are
- Oxygen and water
 - Oxygen and carbon dioxide
 - Oxygen and chlorophyll
 - Carbon dioxide and water
- 114.** The primary cause of species endangerments is
- Disappearing habitats
 - Increase in temperature
 - Acid rain
 - Exposure to hazardous wastes
- 115.** An animal which posses scales, nares and a backbone is likely to be a
- Toad
 - Lizard
 - Rat
 - Bat
- 116.** Which of the following conditions would result in a decrease in the production of anti-diuretic hormone?
- Abnormally high blood sugar level
 - Drinking large quantities of water
 - Increase in osmotic pressure of blood
 - Period of strenuous exercise

- 117.** The bacteria that reduce nitrates in the soil into gaseous nitrogen are referred to as_____
- Nitrifying bacteria
 - Denitrifying bacteria
 - Putrefying bacteria
 - Saprophytic bacteria
- 118.** A man's blood group is AB. What is the probability of the man giving birth to a child with blood group O?
- 0%
 - 25%
 - 50%
 - 100%.
- 119.** Odontoid process is a feature of;
- Atlas Vertebra
 - Thoracic vertebrae
 - Sacral vertebrae
 - Axis vertebra.
- 120.** The Liquid portion of any cell is called_____
- Cytoplasm
 - Endoplasmic reticulum
 - Solvent
 - Isotonic solution
- 121.** The following are uses of sulphur EXCEPT
- Manufacturing of tetraoxosulphate (VI) acid
 - Prevention of the growth of fungi
 - Vulcanization rubber
 - Manufacture of dyes
 - Coating of steel to prevent rusting
- 122.** Which of the following is a waste product in the Solvay Process for the manufacture of sodium trioxocarbonate (VI)?
- Ammonium chloride
 - Brine
 - Limestone

- d. Calcium oxide
 - e. Calcium chloride
- 123.** The major raw material in a plastic industry is
- a. Ethanol
 - b. Sulphur
 - c. Methylenechloride
 - d. Ethene
 - e. Ethane
- 124.** Which of the following statements is not correct?
- a. Metals high up in the redox series are usually extracted by electrolysis
 - b. Lead is less reactive than magnesium therefore it is lower in redox series
 - c. Aluminum reduces iron (III) oxide to iron in the thermite process
 - d. An amphoteric oxide exhibits both acidic and basic properties
 - e. Metals ionize by electron gain while non-metals form ions by electron loss.
- 125.** The heat accompanying the reaction represented by the equation $\text{H}_2\text{O}_{(l)} \rightarrow \text{H}_2\text{O}_{(g)}$ is described as the heat of
- a. Solution
 - b. Neutralization
 - c. Vaporization
 - d. Sublimation
 - e. Activation
- 126.** Which of the following compounds will undergo additional reactions?
- a. Ethyne
 - b. Butane
 - c. Pentane
 - d. Tetrachloromethane
 - e. Ethanol

- 127.** An example of Covalent compound is ?
- NaCl
 - MgSO₄
 - C₂H₅OH
 - CaO
 - CaCl₂
- 128.** Which of the following is suitable for determining different isotopes present in an element which exhibits isotopy?
- Sensitive weighing balance
 - Cathode ray tube
 - Mass spectrometer
 - Geiger muller counter
 - Eudiometer
- 129.** The maximum number of electrons that can be accommodated in the shell having the principal quantum number 3 is
- 3
 - 9
 - 10
 - 18
 - 32
- 130.** Which of the following processes is a physical reaction?
- Electrolysis
 - Hydrolysis
 - Allotropic change
 - Neutralization
 - Corrosion
- 131.** Chlorine is used in water treatment as
- A germicide
 - A decolorizing agent
 - An antioxidant
 - A coagulating agent
 - An aerating agent

- 132.** The component of air that is removed when air is bubbled into alkaline pyrogallol solution is
- Carbon (IV) oxide
 - Oxygen
 - Water vapour
 - Nitrogen
 - Helium
- 133.** Tetraoxosulphate (VI) acid is described as a strong acid because it is highly
- Corrosive
 - Concentrated
 - Reactive
 - Soluble in water
 - Ionized in water
- 134.** Glucose can be obtained from starch by
- Hydrogenation
 - Dissociation
 - Hydrolysis
 - Dialysis
 - Dehydration
- 135.** The pH of 0.1 Molar HCL is equivalent to _____
- 1.0
 - 2.0
 - + 1.0
 - 2.0
 - 0.1
- 136.** What is the molecular mass of NaNO_3
- 85.0
 - 75.0
 - 65.0
 - 55.0
 - 45.0
- 137.** The existence of two or more forms of the same element in the same physical state is known as

- a. Allotropy
 - b. Resonance
 - c. Hybridization
 - d. Isotopy
 - e. Isomerism
- 138.** When an atom gains an electron, it becomes
- a. Chemically inactive
 - b. Negatively charged
 - c. Oxidized
 - d. A cation
 - e. A complex ion
- 139.** The phenomenon observed when dust particles collide randomly in a beam of sunlight is known as
- a. Tyndal effect
 - b. Diffusion
 - c. Osmosis
 - d. Brownian motion
 - e. Dialysis
- 140.** The loss of molecules of water of crystallization to the atmosphere by some crystalline salts is known as
- a. Efflorescence
 - b. Effervescence
 - c. Phosphorescence
 - d. Fluorescence
 - e. Deliquescence
- 141.** An aqueous solution is acidic if
- a. Its pH is high
 - b. It is corrosive
 - c. When it changes the color of litmus
 - d. It has a bitter taste
 - e. It contains more H_3O^+ than OH^-
- 142.** A device used in the laboratory for intermittent production of gases without heating is

- a. Leibig condenser
 - b. Aspirator
 - c. Delivery tube
 - d. Inverted funnel
 - e. Kipp's apparatus
- 143.** A typical example of shell in chemistry is _____
- a. f – Shell
 - b. k – Shell
 - c. s – Shell
 - d. d – Shell
 - e. Q - Shell
- 144.** An exothermic reaction is one which involves
- a. Attainment of dynamic equilibrium
 - b. Loss of heat to the environment
 - c. Evolution of gas as it proceeds
 - d. Positive change in value of enthalpy
- 145.** Which of the following will displace copper from a solution of copper (II) salt?
- a. Aluminum ions
 - b. Magnesium
 - c. Silver
 - d. Zinc ions
- 146.** Biotechnology is applied in the following EXCEPT
- a. Baking industry
 - b. Wine production
 - c. Production of antibiotics
 - d. Manufacture of soap
- 147.** What is the mass number of an element if its atom contains 10 protons, 10 electrons, 12 neutrons?
- a. 32
 - b. 22
 - c. 20
 - d. 10

- 148.** Which of the following establishments uses the process of fermentation in its operations?
- Fertilizer plant
 - Textile industry
 - Brewery
 - Soap manufacturing industry
- 149.** What will happen if more heat is applied to the following system at equilibrium? $X_{2(g)} + 3Y_{2(g)} \rightleftharpoons 2XY_{3(g)}$; $\Delta H = -x\text{kJmol}^{-1}$
- The yield of XY_3 will increase
 - More of XY_3 will decompose
 - More of X_2 will react
 - The forward reaction will go to completion
- 150.** Which of the following compounds can be represented by the molecular formula $C_6H_{12}O_6$?
- Propanal
 - Ethanol
 - Methanoic acid
 - Glucose.
- 151.** Which of the following is NOT suitable for sitting a nursery
- Good loamy soil
 - Soil situated where there is natural shade
 - Soil that is free from pest
 - Steep sloppy ground
 - Well drained soil
- 152.** Which of these crops can only be propagated sexually?
- Banana
 - Cassava
 - Cowpea
 - Ginger
 - Pineapple
- 153.** Clayey soil is needed for the construction of fish pond because it_____
- Cools the water temperature

- b. Encourage the growth of planktons
 - c. Hold the fish feeds and fertilize
 - d. Make liming of fish pond easy
 - e. Prevent excessive seepage from pond's dyke
- 154.** Trypanosomiasis in cattle is cause by _____
- a. Bacteria
 - b. Fungus
 - c. Protozoa
 - d. Tsetse fly
 - e. White fly
- 155.** The major relevance of agricultural to a nation is the provision of
- a. Employment opportunity
 - b. Food for farmers
 - c. Foreign exchange
 - d. Income to farmer
 - e. Shelter and clothing
- 156.** A farm tools which is used for applying water to crops is called
- a. Headpan
 - b. Hoes
 - c. Trough
 - d. Watering can
 - e. Wheel barrow
- 157.** The main function of a harrow is to
- a. Break soil and bury weeds
 - b. Break up soil into smaller piece
 - c. Bury weeds and their seeds
 - d. Make long heaps
 - e. Make rigs before planting
- 158.** A vertical section of the soil is referred to as soil
- a. Horizon
 - b. Profile
 - c. Porosity

- d. Structure
 - e. Texture
- 159.** Which of this is an important of agriculture to the national economy? Provision of
- a. Clothing
 - b. Food
 - c. Foreign exchange
 - d. Medicine
 - e. Shelter
- 160.** Which of this animal is kept for production of wool?
- a. Cattle
 - b. Dog
 - c. Donkey
 - d. Rabbit
 - e. Sheep
- 161.** Sub-soil are commonly differentiated from top soil by the
- a. Absence of soil microbes
 - b. Brownish-black colour
 - c. Formation of lumps
 - d. High humus content
 - e. Possession of pore space
- 162.** The botanical name for goat weed is
- a. Ageratum Conyzoides
 - b. Amaranthus Spinosus
 - c. Commelina Nudiflora
 - d. Cynodon Dactylon
 - e. Panicum Maximum
- 163.** The stage of agricultural development in Nigeria include the following EXCEPT
- a. Bush fallowing
 - b. Commercial farming
 - c. Crop rotation
 - d. Ley farming
 - e. Shifting cultivation

- 164.** Career opportunity in agriculture is available in the following areas EXCEPT
- Animal husbandry
 - Coal mining
 - Crop husbandry
 - Machine operation
 - Tractor driving
- 165.** A facility constructed on the farmland to ease farm operation is known as farm
- Building
 - Implement
 - Machinery
 - Structure
 - Tool
- 166.** The removal of excess seedlings from a stand to avoid overcrowding of the crop is known as
- Harvesting
 - Mulching
 - Pruning
 - Supplying
 - Thinning
- 167.** The factors that determine the adoption of farming system in an area include the following except
- Family size
 - Rain fall
 - Soil fertility
 - Soil texture
 - Temperature
- 168.** A farmer who grows early maize in April on a piece of land and after harvesting decides to plant late maize on the same land in August
- Crop rotation
 - Intercropping
 - Mixed cropping

- d. Multiple cropping
 - e. Relay cropping
- 169.** The following are macro nutrient required by plant, except
- a. Boron
 - b. Calcium
 - c. Magnesium
 - d. Nitrogen
 - e. Phosphorus
- 170.** The ability of any organisms to maintain constant internal environment is termed.
- a. Haemostasis
 - b. Diuresis
 - c. Plasmolysis
 - d. Homeostasis

GENERAL STUDIES



Time Allowed: 2 Hour

1. What type of energy is contained in food?
 - a. Chemical
 - b. Electrical
 - c. Kinetic
 - d. Mechanical
 - e. Solar
2. Which of these is used for cutting sheet metal?
 - a. Chisels
 - b. Files
 - c. Hack-saws
 - d. Scrappers
 - e. Snips
3. In sheet metal work, the stake used for making angular bend and wiring is called
 - a. Creasing iron
 - b. Funnel stake
 - c. Half moon stake
 - d. Hatchet stake
 - e. Round bottom stake
4. Hard wood belongs to the group of trees known as _____
 - a. Broad-leaved
 - b. Conifer
 - c. Evergreen
 - d. Gymnosperm
 - e. Needle shaped leaved.
5. Base 8 is called _____ number system
 - a. Binary
 - b. Decimal
 - c. Hexadecimal
 - d. Number
 - e. Octal
6. In BASIC programming, the asterisk (*) sign is used for
 - a. Addition

- b. Division
 - c. Exponentiation
 - d. Multiplication
 - e. Subtraction
- 7.** The largest category of computer criminals are called
- a. Agents
 - b. Crackers
 - c. Employers
 - d. Hackers
 - e. Organized criminals
- 8.** What is the full meaning of ICT?
- a. Information Common Technology
 - b. Information Communication Technology
 - c. Information Current Technology
 - d. Internal Communication Technology
 - e. Internal Current Technology
- 9.** The unit that controls and regulates various operations in a computer is the_____
- a. Central processing unit
 - b. Compact disc
 - c. Hard disc
 - d. Keyboard
 - e. Monitor
- 10.** Which of the following metals is used for making the body of an aeroplane?
- a. Aluminum
 - b. Copper
 - c. Lead
 - d. Steel
 - e. Tungsten
- 11.** Which of the following is graded according to its weight?
- a. Angle plate
 - b. Hammer
 - c. Scriber

- d. Scribing block
- e. Surface plate
- 12.** During which stroke does cutting take place in the power saw?
 - a. Backward
 - b. Forward
 - c. Leftward
 - d. Neutral
 - e. Rightward
- 13.** Adhesion means?
 - a. Ability of glue to bond two materials together
 - b. Mixing of acid substance
 - c. Series of molecules
 - d. Time taken by mixed glue before setting
 - e. Water used to mix the glue
- 14.** The properties of rubber are improved by a process called
 - a. Elasticity
 - b. Neoprene
 - c. Synthetic
 - d. Thermoset
 - e. Vulcanizing
- 15.** All of the following are safety rules and regulation EXCEPT
 - a. Avoid personal initiative
 - b. Be attractive always
 - c. Dress correctly
 - d. Handle tools carefully
 - e. Work the correct way.
- 16.** The largest transport facilities that can carry goods from one place to another are
 - a. Aero planes
 - b. Buses
 - c. Cars
 - d. Ships
 - e. Trains

- 17.** A marriage between an igbo man and a Yoruba woman can be described as a/an _____
- Cross-tribal
 - Inter-tribal
 - Intra-tribal
 - Mixed-tribal
 - Multi-tribal
- 18.** Which of these is an advantage of monogamous marriage?
- Constant quarrels in the family
 - Difficulties in educating the children
 - Firm and adequate family control
 - Inadequate parental care for the children
 - Lack of better attention for the family
- 19.** Which of the following is NOT a modern health institution?
- Clinic
 - Herbal centre
 - Hospital
 - Maternity
 - Primary health centres
- 20.** Community can be defined as a group of people who
- Are of the same parents
 - Are from the same ancestors
 - Belong to the same local government area
 - Share a common locality and ways of life
 - Share boundary with others.
- 21.** Which of the following is not a civic obligation?
- Freedom of conscience and religion
 - Obedience of law
 - Payment of taxes
 - Respect of national flag
 - Voting during election
- 22.** The first constitution to provide for election representative in Nigeria was the
- 1922 Clifford constitution

- b. 1946 Richard constitution
- c. 1954 Lyttleton constitution
- d. 1960 Independency
- e. 1999 Constitution

23. The national Anthem “Arise, O compatriots” was adopted in the year

- a. 1974
- b. 1975
- c. 1976
- d. 1977
- e. 1978

24. The 2010 electoral law in Nigeria, provide that all political parties MUST elect their candidate through

- a. Appointment
- b. Congresses and convection
- c. Employment
- d. Nomination
- e. Selection

25. In civilian administration, governance is through the instrument of

- a. Constitution
- b. Decrees
- c. Edict
- d. Law boots
- e. Manifestoes

26. The primary duty of a government is to

- a. Conduct election
- b. Jail offender
- c. Make laws
- d. Obtain foreign loans
- e. Protect live and property

27. Denying an individual the right to vote is called

- a. Disenfranchisement
- b. Dismissal

- c. Disqualification
- d. Enfranchisement
- e. Prohibition

28. For Nigeria to have a free and fair in nation _____ must be stop

- a. Electoral law
- b. Electoral malpractice
- c. Electoral process
- d. Queuing up on election day
- e. Registration of eligible voters

29. Organizations formed to establish peace and order in the society are referred to as _____ institution.

- a. Economics
- b. Legal
- c. Political
- d. Religious
- e. Traditional

30. Nigeria returned to democratic rule on

- a. July 29,1998
- b. May 29,1999
- c. June 29, 1999
- d. May 29, 2000
- e. May 29, 2001

31. Who establish the first political party in Nigeria?

- a. Ahmodu Bello
- b. Ernest Shonekan
- c. Herbert Marcaley
- d. Nnamdi Azikuwe
- e. Obafemi Awolowo

32. One of these is not a feature of the Nigeria constitution.

- a. Customs and traditions
- b. Distributions of powers
- c. Preamble
- d. The procedure of amendment

- e. Right of citizen
- 33.** When the process of amending a constitution is difficult, it is said to be
 - a. Confederal
 - b. Flexible
 - c. Rigid
 - d. Unwritten
 - e. Written
- 34.** A person automatically becomes the citizen of a country by
 - a. Age
 - b. Birth
 - c. Honour
 - d. Married
 - e. Naturalization
- 35.** The _____ was established in 1973 to foster national unity
 - a. National youth service corps
 - b. Political parties
 - c. Red cross society
 - d. Road safety
 - e. W.A.I. brigade
- 36.** What does the acronym 'STD' stand for? Sexually
 - a. Transferred disease
 - b. Translated disease
 - c. Transported disease
 - d. Transfuses disease
 - e. Transmitted disease
- 37.** The following institution promotes national unity, except
 - a. Federal character commission
 - b. Federal government college
 - c. National assembly
 - d. National youth service corps
 - e. Niger Delta ministry
- 38.** Which of the following is a negative value in the society?
 - a. Cheating

- b. Discipline
- c. Greeting
- d. Honest
- e. Integrity

39. What is the meaning of N.D.E.?

- a. National directorate for employment
- b. National directorate of employment
- c. National division of employment
- d. National director of employment
- e. National directorate on employment

40. Which of the following is not a legal way of becoming a citizen of a country?

- a. Birth
- b. Immigration
- c. Marriage
- d. Neutralization
- e. Registration

41. A system program that manage and coordinates the activities of the computer hardware device is known as

- a. Computer system
- b. Hardware
- c. Memory system
- d. Network system
- e. Operating system

42. Which of these is NOT an external storage Device?

- a. CD-ROM
- b. Compact disc
- c. Flash drive
- d. Magnetic tape
- e. Random access memory

43. Arithmetic and logical operation are performed in _____ unit

- a. Central processing
- b. Input

- c. Memory
 - d. Monitor
 - e. Output
- 44.** Which of this is a graphic package?
- a. Access
 - b. AmiPro
 - c. Excel
 - d. Instant artist
 - e. Lotus 123
- 45.** A _____ is a unit of information
- a. Character
 - b. Database
 - c. Field
 - d. File
 - e. Record
- 46.** Technology is categorized into the following EXCEPT
- a. Ancient age
 - b. Electronic age
 - c. Machine age
 - d. Middle age
 - e. Stone age
- 47.** In a computer system, IPO simply means
- a. Input power outage
 - b. Input power output
 - c. Input process operation
 - d. Input process output
 - e. Input program output
- 48.** Which of the following element is associated with microchip of a computer?
- a. Copper
 - b. Silicon
 - c. Sodium
 - d. Sulphur
 - e. Zinc

- 49.** The longest key on the keyboard key is _____ key
- a. Control
 - b. Delete
 - c. Shift
 - d. Space bar
 - e. Window
- 50.** Which of these is NOT a function of an operating system?
- a. Error handling
 - b. Resource allocation
 - c. System maintenance
 - d. System monitoring
 - e. Time sharing
- 51.** The function of the word processor text document include the following EXCEPT
- a. Creating
 - b. Editing
 - c. Formatting
 - d. Reading
 - e. Storing
- 52.** What is the full meaning of ICT?
- a. Information computer technology
 - b. Information and communication technology
 - c. Information communication technology
 - d. Information communication and technology
 - e. Information and common technology
- 53.** The acronym GPS stand for
- a. General people service
 - b. General positioning system
 - c. Global people service
 - d. Global positioning service
 - e. Global positioning system
- 54.** The computer professionals include the following EXCEPT
- a. Computer educators
 - b. Computer engineers

- c. Computer managers
 - d. Computer system analyst
 - e. Computer user
- 55.** The full meaning of BCD is
- a. Basic computer decimal
 - b. Basic coded decimal
 - c. Binary coded decimal
 - d. Binary coded digit
 - e. Binary computer decimal
- 56.** Pick out the odd one
- a. Assembler
 - b. Compiler
 - c. Interpreter
 - d. Printer
 - e. Translator
- 57.** GUI stands for
- a. Graphical unit interface
 - b. Graphical user intercol
 - c. Graphical user interface
 - d. Graphical user internet
 - e. Graphical user interput
- 58.** Magnetic tape uses _____ access method.
- a. Direct
 - b. Input
 - c. Output
 - d. Random
 - e. Sequential
- 59.** What is the name of the Scottish mathematician who invented Napier bone?
- a. Bitrus Napier
 - b. James Napier
 - c. John Napier
 - d. Jones Napier

- 60.** Which of these devices works as an output and input device?
- a. Electronic pen
 - b. Modem
 - c. Monitoring
 - d. Printer
 - e. Scanner
- 61.** Input, output, processing and storage devices make up
- a. Circuit boards
 - b. Computer system
 - c. Information processing cycle
 - d. Mobile device
 - e. Printing device
- 62.** The oldest method of communication in Nigeria is _____
- a. Radio-network
 - b. Telephone
 - c. Television
 - d. Town-crier
 - e. Video
- 63.** Election processes to political offices in modern Nigeria started with _____
- a. Clifford's constitution of 1922
 - b. Independent constitution 1960
 - c. Macpherson's constitution 1951
 - d. Republican constitution 1963
 - e. Richard's constitution of 1946
- 64.** Government can improve agricultural production in Nigeria by _____
- a. Encouraging farmers to marry many wives to produce more children
 - b. Encouraging importation of foreign goods
 - c. Mechanizing all agricultural process
 - d. Neglecting rural areas
 - e. Reducing fertilizer production

- 65.** All the following are means of communication EXCEPT
- a. Letter writing
 - b. Newspaper
 - c. Television
 - d. Typewriter
- 66.** The aspect of culture which we can see concrete form is known as _____ culture
- a. Foreign
 - b. International
 - c. Local
 - d. Material
 - e. Non-material
- 67.** Discrimination against another race based on colour is called
- a. Capitalism
 - b. Colonialism
 - c. Fascism
 - d. Racism
 - e. Socialism
- 68.** The degree of heat is referred to as
- a. Climate
 - b. Humidity
 - c. Pressure
 - d. Rainfall
 - e. Temperature
- 69.** A cult can best be defined as a group of people
- a. Which is not open to society
 - b. That have sign language
 - c. That hold their meetings in secret
 - d. That fight against the society
 - e. That kills other cult member
- 70.** The southwest monsoon wind comes from
- a. Atlantic ocean
 - b. Lake Chad
 - c. Lake Nyior

- d. Niger Republic
- e. Sahara desert

71. Science explains all these phenomena EXCEPT

- a. Green
- b. Why a seed germinated
- c. Why human beings exist
- d. Why light travel faster than sound
- e. Why the earth is spherical

72. The material aspect of culture can

- a. Be experience
- b. Be handled
- c. Not be handled
- d. Be seen and touched
- e. Not be seen and touched

73. The proper socialisation of an individual leads to the following EXCEPT

- a. Cooperation
- b. Dedication
- c. Disobedience
- d. Obedience
- e. Productivity

74. Examination malpractices can be properly manage by

- a. Conducting frequent and unannounced visit to examination centres
- b. Giving magisterial powers to examination bodies to arrest.
- c. Giving tangible reward to offenders
- d. Organizing workshops and seminars for the capacity building of teachers
- e. Public awareness campaign to highlight the importance of integrity of the examination system

75. The first case of AIDS in Nigeria was reported in the year

-
- a. 1966

- b. 1976
 - c. 1986
 - d. 1996
 - e. 2006
- 76.** An individual can contribute to the development of his community by being
- a. A responsible member
 - b. Arrogant to members
 - c. Disloyal to constituted
 - d. Partial in dealing with members
 - e. Selfish in handling resource
- 77.** The statement information technology has turned the world into global village' means
- a. Access to information has become very easy as if the whole world has turned into village
 - b. Dissemination of information is easier in the villages than anywhere in the world in the world
 - c. The world is gradually becoming a villages
 - d. Villages benefit more from information technology
 - e. Villages have now increase in number due to the presence of technology
- 78.** The degree of hotness or coldness of a place is described as its
- a. Atmospheric condition
 - b. Condition of coldness
 - c. Condition of hotness
 - d. Humidity
 - e. Temperature
- 79.** Which of the following is NOT a form of marriage?
- a. Christian
 - b. Monogamous
 - c. Court
 - d. Islamic
 - e. Customary
- 80.** Vaccination results in

- a. Adding red blood cells to carry oxygen
- b. Production of antibodies which removes the toxins of germs
- c. Arresting excessive bleeding
- d. Production of red blood cells which engulf and digest bacteria.

81. There are _____ senatorial seats in the Nigeria national assembly:

- a. 109
- b. 100
- c. 108
- d. 170
- e. 314

82. There are _____ house of representative seat in Nigeria

- a. 304
- b. 360
- c. 744
- d. 740
- e. 109

83. The following except one is the function of a lawmaker

- a. Making of law
- b. Passing of bill
- c. Budget
- d. Interpretation of the law
- e. Ratification of the law

84. The supreme court of Nigeria is headed by _____

- a. Chief judge
- b. President of the court of appeal
- c. Chief justice of Nigeria
- d. Attorney general
- e. President of the supreme court

85. There are _____ number of counselor wards in Nigeria

- a. 8,029
- b. 777

- c. 744
 - d. 390
 - e. 8,810
- 86.** PDP [People Democratic Party] won _____ number of states in the 2015 election held in Nigeria
- a. 16
 - b. 20
 - c. 13
 - d. 12
 - e. 19
- 87.** APC [All Programme Congress] won all but one of the following states
- a. Ogun
 - b. Kogi
 - c. Yobe
 - d. Lagos
 - e. Nasarawa
- 88.** Following except one of the following party participated in the 2015 presidential in Nigeria
- a. KOWA
 - b. PCP
 - c. HOPE
 - d. APC
 - e. PDP
- 89.** There are _____ number of arms of government in Nigeria
- a. 2
 - b. 4
 - c. 5
 - d. 3
 - e. 7
- 90.** Sir Lord Lugard became the governor general in Nigeria in what year
- a. 1st Jan. 1914
 - b. 1st May 1912

- c. 1st of October 1900
 - d. 13th June 192
 - e. 1st October 1914
- 91.** _____ number of ex colonial masters rule Nigeria before independence
- a. 12
 - b. 11
 - c. 16
 - d. 19
 - e. 10
- 92.** Sir James Robertson was governor general from what year to what year?
- a. 1950 – 1960
 - b. 1940 – 1842
 - c. 1910 – 1913
 - d. 1955 – 1960
 - e. 1914 – 1922
- 93.** The amalgamation of the southern and northern protectorate was done in what year
- a. 1912
 - b. 1914
 - c. 1900
 - d. 1953
 - e. 1960
- 94.** The amalgamation of the southern and northern protectorate was done during the regime of who?
- a. Sir James Robertson
 - b. Sir James Macpherson
 - c. Sir Lord Lugard
 - d. Sir Hugh Clifford
 - e. Sir Donald Cameroun
- 95.** _____ number of premises ruled in Nigeria before independence
- a. 4

- b. 12
 - c. 15
 - d. 2
 - e. 1
- 96.** Sir Alan Burns was Governor General for how many years
- a. One year
 - b. One year and five months
 - c. Four years
 - d. Two years
 - e. Five years
- 97.** Who is the premier of western Nigeria
- a. Chief Olusegun Obasanjo
 - b. Chief Idiagban Babatunde
 - c. Chief Obafemi Awolowo
 - d. Chief Dennis Osadebe
 - e. Chief Mike Okpara
- 98.** _____ is the name of the first senate president in Nigeria
- a. Senator Jack Ojafor
 - b. Senator Dennis Osadebe
 - c. Senator Nwafor Orizu
 - d. Senator Agunyi Ironsi
 - e. Senator Ken Nnamani
- 99.** General Olusegun Obasanjo became the president of Nigeria during the military regime in what year
- a. 1967
 - b. 1979
 - c. 1983
 - d. 1976
 - e. 1999
- 100.** General Sanni Abacha ruled as president of Nigeria before his death for how many year
- a. 2
 - b. 7

- c. 5
- d. 3
- e. 9

101. The longest serving senate president in Nigeria was _____

- a. Sen. Ken Nnamani
- b. Sen. David Mark
- c. Chief Adolphus Wabara
- d. Chief Anyim Pius Anyim
- e. Sen. Patrick Obayagbon

102. The following names except one is not a past Chief Justice of the supreme court

- a. Badejo Williams
- b. Taslim Olawale
- c. Aloma Muktar
- d. Adamu Bello
- e. Idris Legbo Kutigi

103. The following names except one is not a past central bank of Nigeria's governor

- a. Prof. Charles Soludo
- b. Patricia Etteh
- c. Chief Joseph Sanusi
- d. Sanusi Lamido Sanusi
- e. Mr Clement Isong

104. Who is the present Governor of Central Bank of Nigeria

- a. Chief Joseph Sanusi
- b. Charles Soludo
- c. Sanusi Lamido Sanusi
- d. Ola Vincent
- e. Godwin Ifeanyi Emefiele

105. Coal can be found in which of these states

- a. Kwara
- b. Niger Delta
- c. Enugu

- d. Bayelsa
 - e. Taraba
- 106.** Iron ore [steel] can be found un which of these states
- a. Kogi
 - b. Lagos
 - c. Oyo
 - d. Osun
 - e. Ebonyi
- 107.** Columbite can be found in which of these states
- a. Nasarawa
 - b. Adamawa
 - c. Plateau
 - d. Ogun
 - e. Rivers
- 108.** Gas can be found where in Nigeria
- a. Northern part of the country
 - b. Western part of the country
 - c. Eastern part of the country
 - d. Southern part of the country
 - e. North central of the country
- 109.** The following except one is not a mineral resources
- a. Kolanut
 - b. Coal
 - c. Tin
 - d. Limestone
 - e. Gold
- 110.** The following but one is not a cash crop
- a. Cocoa
 - b. Groundnuts
 - c. Kolanut
 - d. Rice
 - e. Yam

- 111.** Which of the following food crops can only be found in the northern part of Nigeria
- Beans
 - Carrots
 - Maize
 - Cassava
 - Yam
- 112.** Salt can be found in which of these states
- Abia
 - Adamawa
 - Akwa-Ibom
 - Cross river
 - Gombe
- 113.** Yankari game reserve can be found in which state
- Osun
 - Taraba
 - Bauchi
 - Sokoto
 - Kano
- 114.** Argungun fishing festival is mostly popular in which state in Nigeria
- Kebbi
 - Ondo
 - Osun
 - Ogun
 - Kogi
- 115.** Idanre hill can be found in which state in Nigeria
- Kwara
 - Niger
 - Ogun
 - Ondo
 - Oyo
- 116.** Olumo Rock can be found in which town in Nigeria
- Oyo town

- b. Warri
 - c. Akure
 - d. Ifaki
 - e. Abeokuta
- 117.** Obudu cattle ranch can be found in which if the states in Nigeria
- a. Rivers
 - b. Edo
 - c. Cross river
 - d. Delta
 - e. Bayelsa
- 118.** Erin waterfall can be found in all but one of the following towns
- a. Erin-ile
 - b. Erin-ijesha
 - c. Erin-ijebu
 - d. Erin-ilu
 - e. Erin-ifaki
- 119.** The following are Niger Delta states except one
- a. Bayelsa
 - b. Ondo
 - c. Edo
 - d. Cross river
 - e. Ogun
- 120.** There are _____ number of Geopolitical zones in Nigeria
- a. 6
 - b. 7
 - c. 8
 - d. 4
 - e. 3
- 121.** The following but one of these states does not belong to the south west geopolitical zones
- a. Ogun
 - b. Ekiti

- c. Kwara
 - d. Oyo
 - e. Osun
- 122.** _____ is the largest city in Nigeria
- a. Lagos
 - b. Port-Harcourt
 - c. Kano
 - d. Ibadan
 - e. Benin
- 123.** Car assemblances are being done in the following states except one
- a. Lagos
 - b. Port-Harcourt
 - c. Ibadan
 - d. Kaduna
 - e. Kano
- 124.** Commercial vehicles color number is normally in what colour
- a. Green
 - b. Red
 - c. Blue
 - d. Black
 - e. Gold
- 125.** Force vehicle registration plate number is in what color
- a. Gold
 - b. Green
 - c. Blue
 - d. Black
 - e. Yellow
- 126.** Green color plate number is mostly associate with one of the following
- a. Force
 - b. Billionaires
 - c. Government

- d. Private
- e. Commercial

127. Naira and Kobo was first introduced in Nigeria in what year

- a. 1977
- b. 1988
- c. 1987
- d. 1978
- e. 1879

128. One thousand naira note was first introduced in Nigeria n the year ____

- a. 2004
- b. 2003
- c. 2000
- d. 2007
- e. 2005

129. There are ____ number of international airport in Nigeria

- a. 21
- b. 16
- c. 10
- d. 8
- e. 4

130. There is international airport in all the following states except on

- a. Kaduna
- b. Kano
- c. Lagos
- d. Abuja
- e. Port-Harcourt

131. There are ____ number of major seaports in Nigeria

- a. 5
- b. 4
- c. 14
- d. 24

- e. 15
- 132.** The following acronyms are associated with Nigeria Merit Award except one
 - a. GCFR
 - b. GCON
 - c. GON
 - d. CON
 - e. OON
- 133.** What is the full meaning of this Nigeria merit award
 - a. Federal Republic Member
 - b. Federal Republic Muslim
 - c. Federal Republic Master
 - d. Federal Republic Medal
 - e. Federal Republic Morgan
- 134.** Kanji Dam can be found in which of the states in Nigeria
 - a. Kogi
 - b. Kano
 - c. Niger
 - d. Ogun
 - e. Ondo
- 135.** Ikpoba dam can be found in which state in Nigeria
 - a. Cross river
 - b. Edo
 - c. Rivers
 - d. Delta
 - e. Abia
- 136.** Dandin Kiwa dam can be found in which state in Nigeria
 - a. Kano
 - b. Gombe
 - c. Katsina
 - d. Jigawa
 - e. Kogi
- 137.** There are _____ number of refineries in Nigeria

- a. 2
- b. 4
- c. 5
- d. 8
- e. 3

138. Tula highland hill can be found in which state in Nigeria

- a. Bauchi
- b. Niger
- c. Kwara
- d. Gombe
- e. Abia

139. Zuma Rock can be found where in Nigeria

- a. Abuja
- b. Kogi
- c. Kano
- d. Taraba
- e. Adamawa

140. The red eagle on the coat of Arms represents

- a. Dignity
- b. Cleanness
- c. Calmness
- d. Privacy
- e. Loyalty.

141. The Nigerian flag was designed by who

- a. Obafemi Awolowo
- b. Joshua Fang
- c. Taiwo Akinwunmi
- d. Tanmami Daniel
- e. Olatunde Benjamin

142. The Nigerian flag was designed in what year

- a. 1930
- b. 1961
- c. 1959
- d. 1949

- e. 1963
- 143.** The Nigerian motto is _____
 - a. Unity and faith forever
 - b. Oneness we stand
 - c. Purity for life
 - d. Unity & progress
 - e. Unity & faith, peace and progress
- 144.** The flowers cactus on the Nigerian coat of arm represent _____
 - a. Purity
 - b. Strength
 - c. Good soil
 - d. Fertile soil
 - e. Beauty
- 145.** The Nigerian Army was founded in the year _____
 - a. 1830
 - b. 1863
 - c. 1936
 - d. 1940
 - e. 1943
- 146.** The Nigerian Navy was founded in what year _____
 - a. 1962
 - b. 1950
 - c. 1956
 - d. 1965
 - e. 1941
- 147.** The Nigerian police was founded in the year _____
 - a. 1900
 - b. 1910
 - c. 1920
 - d. 1930
 - e. 1940
- 148.** The highest rank in the Nigerian police is _____

- a. Commissioner of police
 - b. Superintended of police
 - c. Corporal of police
 - d. Inspector of General of police
 - e. Constable of police
- 149.** The first coup which was led by major Kaduna Nzeogwu happened in what year
- a. 1966
 - b. 1969
 - c. 1962
 - d. 1964
 - e. 1971
- 150.** General Olusegun Obasanjo handed over to a civilian president in what year
- a. 1989
 - b. 1969
 - c. 1979
 - d. 1971
 - e. 1964
- 151.** General Sanni Abacha came into power as Nigerian president in what year
- a. 1991
 - b. 1992
 - c. 1996
 - d. 1990
 - e. 1993
- 152.** Former president Goodluck Ebele Jonathan was first sworn in as president of Nigeria on ____
- a. May 29, 2011
 - b. May 6, 2010
 - c. May 29, 2010
 - d. May 6, 2011
 - e. March 29, 2010
- 153.** There are ____ number of regions in Nigeria as at 1960

- a. 2
- b. 4
- c. 3
- d. 7
- e. 5

154. _____ is the capital of the northern region in the 1960s

- a. Kano
- b. Katsina
- c. Kanji
- d. Kaduna
- e. Plateau

155. Mid-western was created in what year

- a. 1965
- b. 1962
- c. 1964
- d. 1961
- e. 1963

156. _____ is the capital of mid-western region.

- a. Benin
- b. Oyo
- c. Abeokuta
- d. Ore
- e. Osogbo

157. Kaduna, Kano and Kwara states were created in what year

- a. 1967
- b. 1966
- c. 1965
- d. 1968
- e. 1969

158. Imo, Oyo and Ogun states were created in what year

- a. 1990
- b. 1978
- c. 1977
- d. 1991

- e. 1970
- 159.** Busa ethnic group can be found in which state
 - a. Kwara
 - b. Niger
 - c. Sokoto
 - d. Kano
 - e. Kogi
- 160.** Itsekiri ethnic group can be found in which state
 - a. Edo
 - b. Cross river
 - c. Delta
 - d. Abia
 - e. Enugu
- 161.** Kano state has _____ number of local government area
 - a. 42
 - b. 40
 - c. 39
 - d. 34
 - e. 44
- 162.** Bayelsa state has _____ number of local government area
 - a. 19
 - b. 23
 - c. 14
 - d. 8
 - e. 16
- 163.** The state with the lowest number of Local Government Area in Nigeria is _____
 - a. Bayelsa
 - b. Ondo
 - c. Osun
 - d. Ekiti
 - e. Kogi
- 164.** The state with the highest number of local government area is _____

- a. Kano
 - b. Katsina
 - c. Lagos
 - d. Oyo
 - e. Enugu
- 165.** The slogan “farming is our pride” is associated with which state in Nigeria
- a. Benue
 - b. Bauchi
 - c. Zamfara
 - d. Niger
 - e. Ebonyi
- 166.** The slogan “food basket of the nation” is associated with which state in nigeria?
- a. Nassarawa
 - b. Kaduna
 - c. Benue
 - d. Ebonyi
 - e. Gombe
- 167.** What is the name of the picture that is on the two hundred naira note of nigeria
- a. Chief Obafemi Awolowo
 - b. Dr Nnamdi Azikwe
 - c. Dr Clement Isong
 - d. Sir Amadu Bello
 - e. Chief Ernest Shonekan
- 168.** The killing of twins was stopped in_____ year
- a. 1840
 - b. 1848
 - c. 1812
 - d. 1809
 - e. 1806
- 169.** In 1906 FCT was taken from calabar to where in Nigeria
- a. Lagos

- b. Abuja
- c. Minna
- d. Kano
- e. Lokoja

170. _____ year was the year pound and shilling was introduced and there was scarcity of salt that year as well

- a. 1949
- b. 1948
- c. 1945
- d. 1946
- e. 1947

171. Nigeria became self governing in what year

- a. 1954
- b. 1960
- c. 1963
- d. 1966
- e. 1959

172. The federal capital territory of Nigeria was moved from Lagos to Abuja in what year and by who

- a. 1999 by chief Olusegun Obasanjo
- b. 1991 by Gen Ibrahim Babangida
- c. 1991 by Murtala Mohammed
- d. 1999 by Gen Ibrahim Babangida
- e. 1991 by General Ollusegun Obasanjo

173. In what year did Dr. Nelson Mandela visited Nigeria

- a. 1992
- b. 1993
- c. 1994
- d. 1991
- e. 1990

174. _____ country defeated Argentina in the 2014 world cup final played in Brazil

- a. England

- b. Italy
 - c. Germany
 - d. France
 - e. Togo
- 175.** The first world war lasted for how many years
- a. 3
 - b. 4
 - c. 2
 - d. 10
 - e. 8
- 176.** The first world war begin in what year
- a. 1900
 - b. 1916
 - c. 1918
 - d. 1914
 - e. 1912
- 177.** The first independent country in Africa is _____
- a. Lybia
 - b. Senegal
 - c. Togo
 - d. Ghana
 - e. Liberia
- 178.** The first country in the world to get independence is _____
- a. USA
 - b. Germany
 - c. Italy
 - d. Wales
 - e. Uruguay
- 179.** The apex court in Nigeria is _____
- a. Supreme court
 - b. Court of appeal
 - c. Federal high court
 - d. State high court
 - e. Area court

- 180.** What is the name of the Liberian who brought Ebola into Nigeria
- a. Patrick Soja
 - b. Jonathan Soya
 - c. Edward Swale
 - d. Patrick Sawyer
 - e. Patrick Slayer.

MODEL ANSWERS

GENERAL MATHEMATICS

- | | | | |
|-------|-------|-------|--------|
| 1. C | 28. D | 55. B | 82. E |
| 2. C | 29. B | 56. B | 83. E |
| 3. B | 30. D | 57. C | 84. D |
| 4. A | 31. C | 58. D | 85. C |
| 5. C | 32. E | 59. C | 86. C |
| 6. C | 33. C | 60. B | 87. A |
| 7. B | 34. E | 61. E | 88. A |
| 8. C | 35. C | 62. E | 89. B |
| 9. C | 36. E | 63. E | 90. A |
| 10. D | 37. C | 64. B | 91. C |
| 11. E | 38. C | 65. B | 92. D |
| 12. D | 39. E | 66. A | 93. A |
| 13. C | 40. D | 67. C | 94. B |
| 14. A | 41. C | 68. D | 95. D |
| 15. D | 42. D | 69. C | 96. D |
| 16. C | 43. D | 70. D | 97. C |
| 17. B | 44. A | 71. C | 98. B |
| 18. E | 45. C | 72. E | 99. D |
| 19. A | 46. A | 73. D | 100. C |
| 20. D | 47. A | 74. C | 101. B |
| 21. D | 48. A | 75. B | 102. C |
| 22. E | 49. D | 76. C | 103. A |
| 23. D | 50. B | 77. C | 104. A |
| 24. E | 51. C | 78. B | 105. B |
| 25. C | 52. A | 79. D | 106. B |
| 26. B | 53. A | 80. C | 107. D |
| 27. D | 54. B | 81. E | 108. C |

- | | | | |
|--------|--------|--------|--------|
| 109. C | 120. A | 131. D | 142. A |
| 110. B | 121. A | 132. C | 143. C |
| 111. B | 122. B | 133. A | 144. B |
| 112. D | 123. A | 134. C | 145. C |
| 113. C | 124. B | 135. A | 146. B |
| 114. B | 125. E | 136. C | 147. A |
| 115. D | 126. C | 137. B | 148. D |
| 116. C | 127. C | 138. A | 149. C |
| 117. C | 128. C | 139. C | 150. B |
| 118. D | 129. D | 140. A | |
| 119. B | 130. C | 141. D | |

ENGLISH LANGUAGE

SECTION ONE

- | | | | | |
|------|------|------|-------|-------|
| 1. C | 4. A | 7. C | 10. A | 13. A |
| 2. A | 5. A | 8. C | 11. – | |
| 3. D | 6. B | 9. B | 12. D | |

SECTION TWO

- | | | | | |
|------|------|------|-------|-------|
| 1. C | 4. A | 7. C | 10. A | 13. B |
| 2. B | 5. C | 8. D | 11. C | |
| 3. D | 6. C | 9. C | 12. D | |

SECTION THREE

- | | | | |
|------|------|------|-------|
| 1. D | 4. A | 7. A | 10. C |
| 2. A | 5. C | 8. D | 11. A |
| 3. A | 6. B | 9. A | |

SECTION FOUR

- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|-----|---|
| 1. | B | 3. | E | 5. | B | 7. | A | 9. | C |
| 2. | B | 4. | E | 6. | D | 8. | A | 10. | E |

SECTION FIVE

- | | | | | | | | | | |
|-----|---|-----|---|-----|---|-----|---|-----|---|
| 1. | B | 17. | C | 33. | C | 49. | D | 65. | A |
| 2. | A | 18. | C | 34. | D | 50. | D | 66. | A |
| 3. | B | 19. | D | 35. | C | 51. | C | 67. | A |
| 4. | B | 20. | C | 36. | E | 52. | B | 68. | B |
| 5. | C | 21. | B | 37. | D | 53. | A | 69. | A |
| 6. | A | 22. | C | 38. | C | 54. | B | 70. | D |
| 7. | A | 23. | C | 39. | C | 55. | C | 71. | B |
| 8. | E | 24. | D | 40. | E | 56. | B | 72. | A |
| 9. | B | 25. | E | 41. | B | 57. | B | 73. | D |
| 10. | D | 26. | D | 42. | A | 58. | A | 74. | A |
| 11. | D | 27. | E | 43. | B | 59. | D | 75. | D |
| 12. | A | 28. | E | 44. | A | 60. | E | 76. | D |
| 13. | C | 29. | A | 45. | A | 61. | E | 77. | B |
| 14. | E | 30. | B | 46. | B | 62. | A | 78. | D |
| 15. | C | 31. | A | 47. | E | 63. | A | 79. | B |
| 16. | D | 32. | B | 48. | D | 64. | A | 80. | C |

GENERAL SCIENCE

- | | | | |
|-------|-------|-------|--------|
| 1. A | 29. A | 57. A | 85. D |
| 2. E | 30. C | 58. A | 86. D |
| 3. A | 31. D | 59. B | 87. A |
| 4. E | 32. A | 60. B | 88. D |
| 5. A | 33. B | 61. D | 89. D |
| 6. E | 34. C | 62. B | 90. B |
| 7. C | 35. D | 63. C | 91. B |
| 8. C | 36. D | 64. B | 92. B |
| 9. C | 37. B | 65. C | 93. D |
| 10. D | 38. B | 66. B | 94. B |
| 11. B | 39. B | 67. A | 95. C |
| 12. C | 40. D | 68. B | 96. B |
| 13. E | 41. D | 69. A | 97. B |
| 14. C | 42. D | 70. D | 98. D |
| 15. E | 43. C | 71. E | 99. D |
| 16. E | 44. C | 72. C | 100. A |
| 17. D | 45. D | 73. C | 101. B |
| 18. B | 46. B | 74. C | 102. A |
| 19. B | 47. B | 75. B | 103. A |
| 20. A | 48. C | 76. C | 104. B |
| 21. C | 49. D | 77. D | 105. A |
| 22. A | 50. C | 78. B | 106. C |
| 23. B | 51. D | 79. A | 107. B |
| 24. D | 52. E | 80. D | 108. B |
| 25. B | 53. C | 81. A | 109. B |
| 26. B | 54. C | 82. D | 110. B |
| 27. A | 55. D | 83. D | 111. C |
| 28. C | 56. A | 84. A | 112. B |

113. D	115. B	117. A	119. D	
114. A	116. B	118. A	120. A	
121. B	131. A	141. E	151. D	161. A
122. E	132. B	142. E	152. C	162. A
123. D	133. E	143. B	153. E	163. D
124. E	134. C	144. B	154. D	164. B
125. C	135. C	145. B	155. C	165. D
126. A	136. A	146. D	156. D	166. E
127. C	137. A	147. B	157. B	167. A
128. C	138. B	148. C	158. B	168. E
129. D	139. D	149. A	159. C	169. A
130. C	140. A	150. D	160. E	170. D

GENERAL STUDIES

1. A	6. D	11. B	16. D	20. D
2. E	7. D	12. B	17. B	
3. D	8. B	13. A	18. C	
4. C	9. A	14. E	19. B	
5. E	10. A	15. B		
21. A	25. A	29. B	33. C	37. E
22. A	26. E	30. —	34. B	38. A
23. E	27. A	31. C	35. A	39. A
24. B	28. B	32. A	36. E	40. B
41. E	44. D	47. D	50. C	53. E
42. E	45. C	48. B	51. E	54. E
43. A	46. A	49. C	52. C	55. E

56.	D	69.	C	82.	B	95.	A	108.	D
57.	C	70.	A	83.	D	96.	B	109.	A
58.	E	71.	A	84.	C	97.	C	110.	E
59.	C	72.	D	85.	E	98.	E	111.	B
60.	B	73.	C	86.	A	99.	D	112.	A
61.	B	74.	C	87.	E	100.	C	113.	C
62.	D	75.	C	88.	B	101.	B	114.	A
63.	C	76.	A	89.	D	102.	A	115.	D
64.	C	77.	A	90.	A	103.	B	116.	E
65.	E	78.	E	91.	E	104.	E	117.	C
66.	D	79.	B	92.	D	105.	C	118.	B
67.	D	80.	B	93.	B	106.	A	119.	E
68.	E	81.	A	94.	C	107.	C	120.	A
121.	C	125.	D	129.	E	133.	D	137.	E
122.	D	126.	C	130.	A	134.	C	138.	D
123.	B	127.	A	131.	A	135.	B	139.	A
124.	B	128.	E	132.	C	136.	B	140.	A
141.	C	145.	B	149.	A	153.	C	157.	A
142.	C	146.	C	150.	C	154.	D	158.	D
143.	E	147.	D	151.	E	155.	E	159.	B
144.	E	148.	D	152.	B	156.	A	160.	C
161.	C	165.	C	169.	E	173.	E	177.	E
162.	D	166.	C	170.	C	174.	C	178.	E
163.	A	167.	D	171.	A	175.	D	179.	A
164.	A	168.	B	172.	B	176.	B	180.	D