



## 684752219 UCH Past Question and Answer

Past questions (School of Nursing, University College Hospital)



Scan to open on Studocu

**UCH IBADAN SCHOOL OF NURSING PAST  
QUESTIONS PAPER:  
TABLE CONTENTS**

**FIRST YEAR**

English Language	2
Mathematics	5
Biology	10
Chemistry	14
Physics	18
Current Affairs	21

**SECOND YEAR**

English Language	24
Mathematics	27
Biology	31
Chemistry	35
Physics	39
Current Affairs	43

**THIRD YEAR**

English Language	46
Mathematics	50
Biology	54
Chemistry	58
Physics	61

Current Affairs 64

**FOURTH YEAR**

English Language 67

Mathematics 72

Biology 77

Chemistry 81

Physics 84

Current Affairs 88

**FIFTH YEAR**

English Language 91

Mathematics 96

Biology 100

Chemistry 104

Physics 107

Current Affairs 110

**SIXTH YEAR**

English Language 113

Mathematics 116

Biology 120

Chemistry 124

Physics 127

Current Affairs 13

**SEVENTH YEAR**

English Language 134

Mathematics	138
Biology	142
Chemistry	146

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

Physics	149
Current Affairs	152
<b>ANSWERS</b>	<b>154</b>

## **FIRST YEAR**

### **SCHOOL OF NURSING ENTRANCE EXMINATION**

**Time allowed: 1 hour**

- Do not open your question booklets until you are told to do so.
- The examination consists of six section labelled A to F. All the questions irrespective of the sections carry equal mark.
- Section A- English language 20 questions  
Section B- mathematics 20 questions  
Section C- Biology 20 questions  
Section D- chemistry 15 questions  
Section E – Physics 15 questions  
Section F – Current affairs 10 question
- Answer all questions appropriately
- Use the answer sheet provided
- Use HB pencil to shade the correct answer for each question. Ensure that any shading made in error is thoroughly erased.
- Write your **NAME, EXAMINATION NUMBER** and other needed information in the appropriate space with the same

number or letter as each digit or letter.

- Any candidate caught cheating in the course of the examination will be duly penalized. ▪ The interview date will be made known to the public as soon as possible.

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

## SECTION A

### ENGLIS LANGUAGE

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

I made a visit to the University Teaching Hospital the other day. At the (1) department, where accident (2) are treated, the doctors were battling to save the life of a man who had just been knocked down in a road accident. They (3) the injured man thoroughly with the aid of several (4) instruments such as the (5) used in measuring body temperature and the (6) used in listening to the sound of the heart and the lungs. By using (7) several internal parts of the patient's body were photographed. (8) and pain killing injections were given. His bleeding was stopped. The nurses (9) his wounds and he was carried on a (10) to the special care (11) where those under (12) care are kept. The doctor asked the nurse to keep the patient under close (13).

A

B

C

D

E

1.	Mortuary	Psychiatry	Pediatrics	Anatomy	Casualty
2.	Drivers	Victims	Motorists	Convicts	Culprits
3.	Examined	Inspected	Tested	Consulted	Healed
4.	Biology	Laboratory	Scientific	Clinical	Pathologica
5.	Barometer	Odometer	Speedomete	Ammeter	Thermomet
6.	Microscope	Heliotrope	Stethoscope	Horoscope	Telescope

7.	Xerox	x-ray	Xylophone	Heat rays	Sun ray
8.	Anti-	Immunization	Pathologica	Anti-	Cerebral
9.	Decorated	Plastered	Rinsed	Bathed	Dressed
10	Stretcher	Trolley	Bed	Coffin	Lift
11	House	Ward	Cell	Compartment	Room

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

12	Critical	Fatal	Potent	Serious	Intensive
13	Restriction	Diagnosis	Observation	Inspection	confinement

**From the words lettered A to E choose the word or group of words that best completes each of the following sentences.**

14. The prices of cars have become \_\_\_\_\_

- a) Painful
- b) Unbearable
- c) Stringent
- d) Harsh
- e) Exorbitant

15. I had \_\_\_\_\_ trust in the boy before he woefully disappointed me

- a) Essential
- b) Flagrant
- c) Absolute
- d) Effective
- e) Fruitful

16. The poor boy was \_\_\_\_\_ when he stepped on a live wire

- a) Blazed
- b)

Electrified

c)

Radiated

d) Burnt

e) Electrocuted

17. The politician ran to another country to seek \_\_\_\_\_

a) Refuge

b)

Safequard

c) Retreat

d)

Safety

e)

Privacy

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

18. The governor ordered that the work done by any contractor should be properly \_\_\_\_\_ so as know the correct amount to pay

- a) Processed
- b) Investigate
- d c) Accounted
- d) Screened
- e) Probed

19. The University awarded \_\_\_\_\_ doctorate degrees to four distinguished member of the community

- a) Honourabl
- e b) Expensive
- c) ceremoniou
- s d) Ceremonial
- e) Honorary

20. The students threatened to embark on \_\_\_\_\_ of lectures if their demands were not met

- a) Condonatio
- n b)

- Suspension  
c) Rejection  
d) Strike  
e) Boycott.

**SECTION C**  
**BIOLOGY**

1. The ability of the human eyes to focus both distant and near objects is called?  
a) Normal adjustment  
b) Visual pathway  
c) Reflex blinking  
d) Accommodations
2. The organ that supplies nutrient to a foetus and also plays a protective role is called \_\_\_\_\_  
a) Umbilical cord  
b) Cervix

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- c)  
Placenta
- d)  
Uterus
3. The total number of thoracic vertebra in humans is ? (a) 7 (b) 5 (c) 13 (d) 12
4. The functional and basic unit of the mammalian kidney is the a) Cortex  
b) Nephron  
c) Medulla  
d) Pyramid
5. Odontoid process is a feature of; a) Atlas vertebra  
b) Thoracic vertebrae c) Sacral vertebrae  
d) Axis vertebra
6. What is the blood group of Mr. Bright if he donates blood to anybody irrespective of the person's blood group.  
(a) A (b) O (c) AB (d) B
7. The sense of balancing is a function of which part of the mammalian ear a) Auditory meatus  
b) Cochlea  
c) Eardrum  
d) Semicircular canals
8. Tapeworm has alimentary tract

- simply because a) It is a pseudo multicellular organism  
b) Its body can absorb already digested food from its host c) It has piercing and sucking mouth part  
d) All of the

above 9. Dental formula

- 1-3/3; C-1/1; PM-4/4; M-2/3 denotes that of; a) Human  
b) A snake c) Dog  
d) Sheep

10. A disease condition that can be completely associated with the riverine areas is ? a) Onchocerciasis  
b) Malaria  
c) Leprosy  
d) Tuberculosis

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

11. The liquid portion of any cells called \_\_\_\_\_ a)

Cytoplasm

b) Endoplasmic

reticulum c)

Solvent

d) Isotonic solution

12. Enzymes are:

I. Proteins

II. Need cofactors for their activation III. Specific in

their actions

IV. Mostly active under high temperature which of the statements above is /are correct

a) I &

IV b)

I, II,

III

c) II, III, & IV

d) All are correct

13. The character producing factors in living organisms are; a) Genes

b)

Chromosome

s c) Alleles

d) Chromatids

14. Magnesium aids the formation of;

a)

Cambium

b)

chlorophyll

I c) ATP

d) Amino

acids

15. Adrenalin is;

a) A growth hormone

b) A fight or flight enzyme

c) Secreted within the

testes d) A fight or

flight hormone e)

None of the above

16. Ultra-filtration takes place

in the renal a) Nephron

b) Cortex

[www.sadmedic.com.ng](http://www.sadmedic.com.ng) +2348144544917  
+2348167696856

- c) Bowman's capsule
- d) Henle's loop
- e) Papillae

17. The deficiency of protein and carbohydrate in the body leads to \_\_\_\_\_ & \_\_\_\_\_ respectively

- a) Kwashiorkor & Marasmus
- b) Marasmus & kwashiorkor
- c) Beri-Beri & Marasmus
- d) Marasmus & Beri-Beri

18. Bile is produced

- in the; a) Gall bladder
- b) Liver
- c) Pancreas
- d) Spleen
- e) Duodenum

19. Secchi disc is used to determine or measure; a) Turbidity

- b) Wind velocity
- c) Rainfall
- d) Tides

20. If a tall variety (Tt) of pig is cross bred with a short variety (tt), the ratio of tall to short in their offspring will be?

- a) 1:1
- b) 1:3

- c)
- 3:1
- d)
- 2:1

**SECTION D**  
**CHEMISTRY**

1. Blood cells and plasma are separated by? a)  
Centrifugality  
b) Distillation  
c)  
Electrophoresis  
d)  
Centrifugation

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- e) Options B and C
2. Which of the following represents the order in which orbitals should be filled.
- S P d f
  - S → f p d
  - S → d → p → f
  - S → p → f → d
  - f → d → p → s
3. Chlorine is used in water treatment as \_\_\_\_\_
- An aerating agent
  - Alaxative
  - A germicide
  - A coagulant
4. \_\_\_\_\_ and \_\_\_\_\_ are the metallic ions commonly present
- $\text{Al}^{3+}$  and  $\text{Ca}^{2+}$
  - $\text{Na}^{+}$  and  $\text{Mg}^{2+}$
  - $\text{Ca}^{2+}$  and  $\text{Zn}^{2+}$
  - $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$
  - $\text{Cu}^{2+}$  and  $\text{Al}^{3+}$
5. Gases can be generated intermittently in the laboratory without the application of heat with the aid of a device called

- a. Scintillation apparatus  
b. Liebig's condenser  
c. Cold-gas gauze  
d. Kipp's apparatus  
e. Options C and D
6. I-High melting and boiling points  
II-Good conductor of heat and electricity in the molten or aqueous state  
a. I and III only  
b. II and III only  
c. I and II only  
d. I, II and III  
e. II only
7. An example of covalent compound is ?  
a. NaCl  
b. MgSO<sub>4</sub>  
c. C<sub>2</sub>H<sub>5</sub>O  
d. H

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

d.  
CaO e.  
CaCl<sub>2</sub>

8. The pH of 0.1 molar HCl is equivalent to? a. -1.0  
b.  
2.0 c.  
+1.0  
d. -  
2.0 e.  
-0.1

9. What is the molecular mass of NaNO<sub>3</sub>? a) 85.0  
b)  
75.0  
c)  
65.0  
d)  
55.0  
e)  
45.0

10. Which of the following is a property of a transition metal? a) Easy malleability and ductility  
b) Dissolves easily in water  
c) Conducts heat and electricity readily d) Showing of variable oxidation states e) Perfectly forms covalent compounds

11. An element X whose atom contains 11 protons, 11 protons, 11

electrons and 12 neutrons has a mass number of \_\_\_\_\_

a)

23

b)

22

c)

21

d)

11 e)

12

12. Which of the following is mostly used in the determination of the age of excavated human skeleton

a) Carbon

tracker b)

Cosmic Iodine

c) Carbon-

dating d)

Radio-isotopy

e) C and D

13. Calculate the oxidation number of phosphorous in  $\text{Al}_2(\text{PO}_4)_3$

[www.sahucmedic.com.ng](http://www.sahucmedic.com.ng) +2348144544917  
+2348167696856

- a)
- 18 b)
- 3 c)
- 4 d)
- 6 e)
- 18

14. Hydrogenation of pentene yields

- \_\_\_\_\_ a) Pentone
- b) Pentyne
- c) Pentane
- d) Pentanol
- e) Pentanel

15.  $\Delta G = \Delta H - T\Delta S$

- I.  $\Delta G$  = enthalpy change
- II.  $\Delta H$  = Free energy change
- III.  $T$  = Temperature
- IV.  $\Delta S$  = entropy change

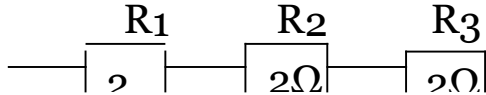
Which of the above statement is / are correct.

- a) III and IV only
- b) I and III only
- c) II and IV only
- d) IV only
- e) All of the above

## SECTION E

## PHYSICS

1. The diagram below shows the arrangement of three different resistors. Find the total resistance of the resistors



- a) 14  
Ohms b)  
 $7/8$  Ohms  
c)  $8/7$   
Ohms d)  
 $1/14$  Ohms
2. A typical instrument built by physicists for designers to obtain colour patterns is termed. a) Astroscope  
b) Periscope  
c) Colouroscope

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- d) Kaleidoscope
3. The weight of any object can be easily measured by; a) A beam balance  
b) A spring balance  
c) Finding the force necessary to give it a certain acceleration d) None of the above methods.
4. The exact value of  $59^{\circ}\text{F}$  in degree Celsius? a.  $15^{\circ}\text{C}$   
b.  
 $45^{\circ}\text{C}$   
c.  
 $30^{\circ}\text{C}$   
d.  
 $60^{\circ}\text{C}$
5. A machine gun with a mass of 5kg fires a 50g bullet at a speed of 100m/s. the recoil velocity of the machine gun is?  
a) 0.5m/sec  
b) 1.5 m/sec  
c) 1.0 m/sec  
d) 4 m/sec
6. An object 3cm high placed on the axis 7cm from a converging lens forms an image 70cm from the lens.  
a)  
30cm  
b)  
3.0cm  
c)  
10cm  
d)  
1.0cm

- e)  
30mm
7. A 10.0kg car which was initially at rest traveled with an acceleration of  $2\text{m/sec}^2$ , its kinetic energy after 2 seconds was?
- a) 80.0J  
b)  $8.0 \times 10^3\text{J}$   
c)  $7.5 \times 10^2\text{J}$   
d)  $7.0 \times 10^2\text{J}$
8. The anomalous behavior of water occurs between what and what temperature range? a)  $+4^\circ\text{C}$  to  $-3^\circ\text{C}$   
b)  $-4^\circ\text{C}$  to  $0^\circ\text{C}$   
c)  $-100^\circ\text{C}$  to  $+100^\circ\text{C}$   
d)  $-100^\circ\text{C}$  to  $0^\circ\text{C}$
9. The total number of images that can be seen by a man standing between two parallel mirrors in a hair-dressing shop is?
- a) Only two  
b) Infinite  
c) Just sixteen

[www.vahmedic.com.ng](http://www.vahmedic.com.ng) +2348144544917  
+2348167696856

- d) Multiple
- e) None of the above

10. Provided an elastic limit is not exceeded, the extension is a) Inversely proportional to the load or applied force

- b) Directly proportional to the load or applied force and temperature
- c) Simply constant
- d) Directly proportional to the load or applied force
- e) Proportional to the sliding scale used.

11. The addition of impurities to semi-conductors to boost their activities is termed. a) skimming

- b) Dopping
- c) Boosting
- d) Catalyzing
- e) None of the above

12. The ability of a body to set another body into vibration but in its own fundamental frequency is termed

- a) Superposition
- b) Resonance
- c) Forced vibration
- d) Interference
- e) Paraposition

13. An orange fruit 10m above the ground drops from the branch

where it was attached. Calculate its velocity just before it hits the ground. (take  $g = 10 \text{ m/s}^2$ )

- a)  $10\sqrt{2}$   
m/s
- b)  $10$   
m/s
- c)  $100$   
m/s
- d)  $5$   
m/s
- e)  $2$   
m/s

14. A simple pendulum with period of 2.0 sec has its length doubled its new period is?

- a) 1.00 sec
- b) 1.41sec
- c) 0.35 sec
- d) 2.83 sec
- e) 4.00 sec

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

15. All of the following parameters are forced  
except \_\_\_\_\_
- a) Weight
  - b) Upthrust
  - c) Friction
  - d) Tension
  - e) Impulse

**SECTION F  
CURRENT  
AFFAIRS**

1. Nelson Mandela died on; a) 5<sup>th</sup> October 2013 b) 5<sup>th</sup> December 2013 c) 7<sup>th</sup> December 2013 d) 7<sup>th</sup> October 2013
2. 2013 ASSUU strike began on; a) June 1, 2013 b) July 1, 2013 c) January 1, 2013 d) June 1, 2013

3. One of the following is an ex-director general of NAFDAC
- a) Dr Joshua Dariye
  - b) Prof. Eyitayo Lambo
  - c) Prof. Olikoye Ransom-Kuti
  - d) Dr Dora Akunyili
4. UN implies;
- a) Unity Nursery
  - b) United Nigerians
  - c) United Nations
  - d) United Nurses
5. A citizen of Nigeria is called a Nigerian while that of Niger republic is \_\_\_\_\_
- a) Nigerien
  - b) Nigger
  - c) Republican
  - d) Nigeriana

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

6. In the football game, a score of 2 & 3 by any player in any match are called \_\_\_\_\_ and \_\_\_\_\_ respectively.

- a) Brace & hat-trick
- b) Hat-trick & brace
- c) Duplet & hat-trick
- d) None of the above

7. The capital city of Abia state is a)

- a) Umuahia
- b) Umayya
- c) Yola
- d) Owerri
- e) Umuaha

8. NDDC means

- a) Niger Delta Development Commission
- b) Nigeria Dredger Due and Commission
- c) Niger Delta Development Council
- d) Nigeria and De Democratic

republic of Congo What is the full meaning of the following

9.

OPEC

10. NA

CA

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**SECOND YEAR**  
**SCHOOL OF NURSING ENTRANCE**  
**EXAMINATION**

**TIME ALLOWED: 1 Hour**

- Do not open your question booklets until you are told to do so.
- The examination consists of six sections labeled A to F. all the questions irrespective of the sections carry equal mark.
- Section A- English language 20 questions • Section B- mathematics 20 questions
- Section C- Biology 20 questions
- Section D- Chemistry 15 questions • Section E- Physics 15 questions
- Section F- Current Affairs 10 questions • Answer all questions appropriately
- Use the answer sheet provided
- Use HB pencil to shade the correct answer for each question. Ensure that any shading made in error is thoroughly erased.
- Write your **NAME, EXAMINATION NUMBER** and other needed information in the appropriate spaces on the answer

sheet. Shade carefully the space with the same number or letter as each digit or letter.

- Any **candidate caught cheating** in the course of the examination will be duly penalized. • The **interview date** will be made known to the public as soon as possible.

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

## SECTION A

### ENGLISH LANGUAGE

In the passage below, the numbered gaps indicate missing words against each number in the list below the passage, four choices are offered in columns lettered A-D. for each question, choose the word that is the most suitable to fill the numbered gaps in the passage.

#### **PASSAGE:**

Science and technology have proved both the heat of the sun and waterfalls as important natural (1) that can be (2) for the advantage of man. While it is possible to exploit the heat of the sun for (3) it is also possible to (4) the force of falling water for electricity.

Man can 'create' the (5) by building a (6) across a fast flowing river. This construction obstructs and therefore (7) the flow of water for a special purpose.

The use of specially designed machines for the control and regulation of the flow of water (8) the required electricity. Before the dam, electricity could only be generated in power (9) by burning (10) or oil.

	A	B	C	D
1.	Form	Ways	Resources	Sources
2.	Exploited	Neglected	Remember	Examined
3.	Water	Solar energy	Heavenly	Hydro Energy
4.	Process	Examine	Manufacture	Harness
5.	Lake	Water fall	Waterstred	Contract
6.	Obstacle	Bridge	Dam	Pillar

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

7.	Calculates	Facilitates	Stops	Regulation
8.	Generates	Produces	Forces	Forms
9.	Forces	Stations	Generators	Mines
10	Fire	Wood	Coal	Gas

**From the options A-E, select a word that is nearly opposite in meaning to the underlined word and that at the same time fills the blank space in the sentence correctly.**

11. He proved unreliable in his dealings with the electorate but would want everybody to believe that he was quite

- 
- a)  
Resistible
  - b)  
Resolute
  - c)  
Resourceful
  - d)  
Responsive
  - e)  
Dependable

12. Tolu lost a lot of things in his school days because he was impatient but age and experience have taught him to be at all times

- a)  
Anxious
- b)  
Patient
- c)  
Careful
- d)

- Diligent
- e) Intransigent
13. The story I heard on the radio was interesting but the one Aina Narrated was rather \_\_\_\_\_
- a)  
Monstrous
- b) Dull
- c)  
Truthfull
- d)  
Realistic
- e)  
Incredible
14. Although the events in the company showed that he was innocent the management still insisted that he was \_\_\_\_\_
- a)  
Nocent
- b)  
Gullible
- c)  
Guilty
- d)  
Honest
- e) Innocuous

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

15. Although the president was the target of calumny after the election, he now enjoys the \_\_\_\_\_ of all and sundry

a) Defamation

b)

Commendatio

n c)

Aspiration

d)

Condemnatio

n e)

Backbiting

From the option A-D choose the appropriate word or word group that best completed each of the following sentences.

16. The leader of the Red Cross team and Chairman of the political party in the state \_\_\_\_\_ my friend

a)

Are

b) Is

c)

Were

d)

Have

17. Bread and butter \_\_\_\_\_ our favorite meal a) Were

b) Is

c)

Are

d) Is bearing

18. When Musa arrived, Obi as well as the son \_\_\_\_\_ in the shop a) Were

b) Is

c)

- Are  
d) Was
19. In order to succeed in life you  
\_\_\_\_\_ very hard. a) Must have  
work  
b) Must have to work  
c) Ought must have  
to work 20. The student  
said \_\_\_\_\_  
a) He  
want b)  
He wanted  
c) That he want  
d) What he wanted

[www.sahumedic.com.ng](http://www.sahumedic.com.ng) +2348144544917  
+2348167696856

**SECTION B**  
**MATHEMATICS**

1. Express the product of 0.09 in standard form  
a)  $5.4 \times 10^{-3}$   
b)  $5.4 \times 10^{-2}$   
c)  $5.4 \times 10^{-1}$   
d)  $5.4 \times 10^2$   
e)  $5.4 \times 10^3$
2. What is the 8<sup>th</sup> term of the A.P-31,1,.....  
a) 13  
b) 11  
c) -8  
d) -11  
e) 17
3. A sales boy gave a change of N1.15 to a customer instead of N1.25. calculate his percentage error  
a) 10%  
b) 8.7%  
c) 8.7%

8.0%

d)

2.4% e)

0.10%

4. A fair die is tossed once, what is the probability of having an even number
- a)  $1/3$
  - b)  $1/6$
  - c)  $1/2$
  - d)  $2/6$
  - e)  $5/6$
5. If  $\sin \theta = 3/5$ , find  $\tan \theta$  if  $0 < \theta < 90$

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- a)  
 $\frac{4}{5}$
- b)  
 $\frac{3}{4}$  c)
- $\frac{5}{8}$
- d)  
 $\frac{1}{2}$
- e)  
 $\frac{3}{8}$

6. Evaluate

$$(27^{1/3})^2$$

- a)  $4 \frac{1}{2}$
- b) 6
- c) 9
- d)
- 18 e)
- 81

7. For what value of y is the expression

$$\frac{(y+2)}{Y^2-3y-10}$$

undefined?

- a)  
Y=0
- b)  
Y=2
- c)  
Y=3
- d)  
Y=5

e)

$$Y=10$$

8. Express 0.0000814 in standard form a)

$$8.14 \times 10^5$$

b)

$$8.14 \times 10^5$$

c)

$$814 \times 10^5$$

d) None of the above

9. If the bearing of N from M is  $500^\circ$ , what is the bearing of M from N a)  $230^\circ$

b)

$$50^\circ$$

c)

$$40^\circ$$

d) -

$$50^\circ$$

e)

$$90^\circ$$

10. Factorize  $3p^2 -$

$$11p+6$$
 a)  $(3p-$

$$2)(p-3)$$

$$b) (2p-2)$$

$$(p-3)$$
 c)

$$(3p-2)$$

$$(p+3)$$
 d)

$$(3p+2)(p-$$

$$3)$$

e)  $(2p-3)(p+2)$

11. Simplify  $\frac{1}{4}$

$(2^X - 2^{X+2})$

a)  $2^{X^2} - 2^X$

b)  $2^{X-2} -$

$[1-2^X]$  c)

$2^{2X}$

d) 0.

12. Simplify:

$\log_{10} 9 -$

$\log_{10} 27$  a) -3

b)

0 c)

3 d)

9 e)

-9

13. If  $2y + a + b = 7$  and  $3a - 2b = 3$ , by how much is  $7a$  greater than  $10b$ ? a) 1

b) 3

c) 7

d)

10 e)

17

14. If the angle of elevation of A from B is  $30^\circ$  and  $|AB| = 40\text{m}$ , how high is A above the level of B? a) 10m

b)

$20\sqrt{3}$  c)

20 3m

d)

40m e)

50m

15. An arc of a circle of radius 7cm is 14cm long. What angle does the arc subtend at the centre of the circle? (take  $\pi=22/7$ )

a)

25.7°

b)

44°

c)

51.43°

d)

Ninety

° e)

114.55°

16. If 5 times a certain integer is subtracted from twice the square of the integer, the result is 63. Find the integer

a) 21

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- b)
- 9
- c)
- 7
- d)
- 4
- e)
- 3

17. If  $3^y = 243$ , find the value of  $y$ . Consider the following data:  
8, 1, 2, 9, 2, 3, 5, 2, 8, 9, 8,  
2

- a)
- 2
- b)
- 3 c)
- 4
- d)
- 5
- e)
- 6

18. What is the mode of the above data? a) 8  
b)  
9 c)  
2

- d) 8 and 2
- e) No answer

19. The median value of the data is ? a) 3

- b) 2
- c) 8
- d) 9
- e) 5

20. The range of the data is? a) 8

- b) 2
- c) 5
- d) 9
- e) 3

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**SECTION C**  
**BIOLOGY**

1. \_\_\_\_\_ is the site in a cell where energy is being produced. a) Golgi Apparatus  
b) Contractile Vacuole c) Mitochondria  
d) Lysosomes
2. The ability of any organism to maintain constant internal environment is termed. a) Heamostasis  
b) Dieresis  
c) Plasmolysis  
d) Homeostasis
3. Cretinism is a disease condition caused by the deficiency of; a) Insulin  
b) Glucagon  
c) Oxytocin

d)

Thyroxin

4. Akin swam in a river some weeks ago and later discovered that the urine he has been passing since few days ago contained blood. This could be due to?

a)

Schistosomiasis

is b)

Elephantiasis

c)

Plasmodium

SP d)

Enterobiasis

5. A dwarf plant can be stimulated to grow to normal size and height by the application of; a) Prostaglandin  
b) Ascorbic acid

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

c)  
Gibberelin

d)  
Adrenalin

6. The skin and the hair are usually kept moist and lubricated by the \_\_\_\_\_ a) Perfumes and jellies  
b) Sebum from sebaceous gland c) Sweet from sweat gland  
d) Erector muscles
7. A collection of similar cells performing the same function is termed? a) Cells aggregate  
b) Organ  
c) Tissue  
d) System
8. The left and right lungs have \_\_\_\_\_ and \_\_\_\_\_ number of lobe (s) respectively a) 2 and 3  
b) 3 and 2 c) 1 and 2  
d) 2 and 2
9. The longest bone in the body is called \_\_\_\_\_ a) Humerus  
b) Patella  
c) Femur  
d) Tibia

10. Sympathetic and parasympathetic are branches of the; a) Central Nervous system  
b) Somatic Nervous System  
c) Autonomic Nervous System  
d) All of the above
11. The end products of protein and fat/oil digestion are? a) Amino acid and glycerine  
b) Amino acid, fatty acid and glycerol  
c) Albumin and fatty acid  
d) Peptides and glycerol
12. The total number of bones in the skeletal system is \_\_\_\_\_ a) 310  
b) 306  
c) 206  
d) 106
13. Deoxygenated blood enters the heart through a) Superior and inferior venacavae

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- b) Arch of Aorta and pulmonary vein
- c) Jugular vein and inferior vena-cava
- d) None of the above

14. Vitamin B12 is otherwise known as? a)

Cyanocobalamin

b)

Retinol

c)

Niacin

d) Thiamine

15. The number of ribs in male and female are \_\_\_\_\_ and \_\_\_\_\_ respectively a) 12 and

b) 12 and 12

c) Nine and

nine d) and

12

16. In human, fertilization of Ovum occurs at

the \_\_\_\_\_ a) Ampulla

b)

Ovary

c)

Uterus

d)

Cervix

17. All veins carry deoxygenated blood

except \_\_\_\_\_ a) Inferior Vena-

Cava

- b) Pulmonary  
Veins c)  
Jugular Vein  
d) Renal Vein
18. Which of the following organs has no known function s) in human a) Gallbladder  
b)  
Pancrease  
c)  
Appendix  
d) Spleen
19. Blood is produced in the a)  
Thymus gland  
b) Bone  
marrow c)  
Liver  
d) Intestine
20. Internal respiration  
implie?

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- a) The exchange of gases between the blood and the tissues of the body
- b) The exchange of gases between the lungs and the blood vessels
- c) A and b
- d) None of the above

## **SECTION D**

### **CHEMISTRY**

1. A typical example of shell in chemistry is? a) F –shell  
b) K-shell  
c) S-shell  
d) D-shell  
e) Q-shell
2. Alkanes mainly undergo? a) Reduction reaction  
b) Addition reaction  
c) Substitution reaction  
d) Hydrogenation reaction  
e) Addition & substitution reaction

3. A liquid X of volume  $8\text{m}^3$  has a pressure of  $10.0\text{pa}$ . What is the volume of the liquid when the pressure is reduced to  $5.0\text{pa}$ ?
- a)  $16.00\text{m}^3$
  - b)  $160.0\text{m}^3$
  - c)  $80.0\text{m}^2$
  - d)  $8.00\text{m}^2$
  - e)  $16.00\text{dm}^3$
4. What is the pH of an acid whose concentration is  $0.001\text{ mol/dm}^3$
- a) 3.00
  - b) 1.00
  - c) 2.00

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

d) -

3.00

e) -

1.00

5. The hardening of rubber through cross-linkages is termed a) Rubberization  
b) Vulcanization  
c) Desulphurization  
d) Restructurization  
e) Hydrogenation

6. The 22<sup>nd</sup> element in the periodic table is? a) Titanium  
b) Scandium  
c) Vanadium  
d) Chromium  
e) Aluminium

7. The “atomic radius” in the periodic table; a) Increases down the groups  
b) Increases across the periods

- c) Decreases down the group
- d) Decreases across the periods
- e) Is always unchanged



In the equation above, increase in pressure will cause the equilibrium to shift;

- a) To the right
  - b) To the left
  - c) To neither the left nor the right
  - d) None of the above
  - e) All of the above
9. If the mass of an element is denoted by "A" and its molar mass by "B" then its number of mole is equivalent to?

- a)  $n = \frac{A}{B}$
- b)  $n = \frac{B}{A}$

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

$$\begin{array}{l} \text{c) } \quad \text{---} \\ \quad \text{n=} \\ \quad \text{A-} \\ \quad \text{1} \\ \quad \text{B} \end{array}$$

$$\begin{array}{l} \text{d) } \quad \text{---} \\ \quad \text{n} \\ \quad = \\ \quad \text{B-} \\ \quad \text{1} \\ \quad \text{A} \end{array}$$

$$\begin{array}{l} \text{e) } \quad \text{---} \\ \quad \text{n} \\ \quad + \\ \quad \text{1} \\ \quad = \\ \quad \text{A} \\ \\ \quad \text{B} \end{array}$$

10. Element X has a valency of 3 and that of element Y is 2. What is the formula of the compound formed by both X and Y

- a)  $X_2 Y_3$
- b)  $X_3 Y_2$
- c)  $X_2 Y_3$  or  $X_3 Y_2$
- d)  $X_4 Y_6$
- e)  $X_6 Y_4$

11. The product obtained when starch is completely hydrolyzed is? a) Coal

- b) Maltose
- c)

Fructose

d)

Galactose

e)

Glucose

12. Coal tar, coal gas, coke and Ammoniacal liquor

are obtained by; a) Crystallization

b) Filtration

c) Destructive

distillation d)

Fractional

distillation e)

Evaporation

13. The number of replaceable hydrogen atom s) in an acid is called?

a Basicity

) Laxicity

b Acidity

) Conducti

c vity

) Relativity

d

)

e

)

14. I-

SO<sub>2</sub>

II-

H<sub>2</sub>O,

III –

CaO,

Iv –

Co<sub>2</sub>

Which of the above is/ are acid

anhydride s) a) I, II & II only

b) II & IV  
only c)  
I,II,III &  
IV

[www.vahamedic.com.ng](http://www.vahamedic.com.ng) +2348144544917  
+2348167696856

- d) I &
- IV e)
- II & IV

15. A student obtains his 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> titre as 25., 26.1 and 26.0 respectively. His average titre value is ?

- a) 26.00cm
- 3 b) 25.0cm<sup>3</sup>
- c) 26.10cm<sup>3</sup>
- d) 14.00cm<sup>3</sup>

## SECTION E

### PHYSICS

1. The surface area of a thin metallic plate at 20<sup>0</sup>c is 1.5m<sup>2</sup>. Calculate its surface area when it is finally cooled to exactly 20<sup>0</sup>c. (The value for the linear expansivity of the metal is  $2.5 \times 10^{-5}/K$ )
- a) 1.503m<sup>2</sup>
  - b) 1.500m<sup>2</sup>
  - c) 1.48m<sup>2</sup>
  - d) 1.47m<sup>2</sup>
  - e)

1.40m<sup>2</sup>

2. The knowledge of one of the following is used in the management of a fractured bone. a) Pulley  
b) Block and tackle c) Magnetism  
d) Optics
3. The atomic and the mass numbers of the element <sup>50</sup> are \_\_\_\_\_ and \_\_\_\_\_ respectively. 20  
a) 50 and 20 b) 20 and 50 c) 20 and 50  
d) 30 and 20 e) 70 and 50
4. The three basic means of heat transfer are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. a) Conduction, convection and radiation  
b) Conduction, combustion and radiation

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- c) Conduction, convection and radioactivity  
d) Conduction, contraction and radioactivity
5. Which of the following is true about any luminous object?  
a) It cannot produce its own light  
b) It can generate its own heat  
c) It can easily produce its own light  
d) All of the above  
e) None of the above
6. The definition of the mechanical advantage of a machine is?  
a) Stress divided by strain  
b) Effort divided by load  
c) Strain divided by effort  
d) Load divided by effort applied  
e) A and D
7. A spring of constant 0.5 N/m is stretched by 8m. what is the value of the force applied?  
a) 4.5N  
b) 3.5N  
c) 2.5N  
d) 4.0N  
e) 1.5N
8. The formula for the decay constant of any radioactive element is give by;  
a)  $\lambda = 0.693 \text{ N}^{-1}$   
b)  $\lambda = \text{N}^{-1}$

$$\frac{0.6}{\text{nine}^3}$$

c)  $\lambda =$

$$\frac{0.6}{\text{nine}^3} \cdot \frac{\text{nine}^3}{\text{nine}^3} = \frac{0.6 \cdot \text{nine}^3}{\text{nine}^6}$$

d)  $\lambda = \frac{\text{T}_1/2}{0.6 \cdot \text{nin}^3}$

9. All of the following are derived units except
- a) Unit of force
  - b) Unit of momentum
  - c) Unit of impulse
  - d) Unit of mass
  - e) Unit of capacitance

10. All the following physicist contributed immensely to the field of physics except
- a) Michael farday
  - b) Henry Becquerel

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

- c) Marie Curie
- d) Silvester Cannon
- e) Isaac Newton

11. X and Y are two parameters in physics, if X is inversely proportional to Y then;
- a) X increases as Y decreases
  - b) X increases as Y increases
  - c) X increases only when Y is kept constant
  - d) X increases whether Y increases

or decreases 12. A cone resting on its slant edge is in a state of

- a) Simple equilibrium
- b) Stable equilibrium
- c) Unstable equilibrium
- d) Neutral equilibrium
- e) Parallel equilibrium

13. Given that the refractive index of material x is 15, then the critical angle at the air – x interface if x is made from glass is?

- a)  $\sin^{-1} \frac{2}{3}$
- b)  $\sin^{-1} \frac{1}{2}$
- c)  $\sin^{-1} \frac{3}{4}$
- d)  $\sin^{-1} \frac{8}{15}$

14. A D. celectric comprises of the following parts except a)

- a) Transformer
- b) Commutator

r c)

Armature

d) Field-magnet

15. The exact form of energy stored in a dry

leclanche cell is ? a) Kinetic energy

b) Chemical

energy c) Heat

energy

d) Leclanche

energy value e)

Electro kinetic

energy

[www.vahmedic.com.ng](http://www.vahmedic.com.ng) +2348144544917  
+234816769856

**SECTION F**  
**CURRENT AFFAIRS**

1. The most wanted terrorist in Nigeria is; a) Abubakar Rime  
b) Abubakar Shetima c) Abubakar Ali  
d) Abubakar Shekau
2. The approved rate for a liter of petrol in Nigeria in 2013 is a) N97  
b) N92  
c) N97.50k  
d) N96,50k
3. Which of the following is not an international organization? a) UNICEF  
b) UNDP  
c) UNESCO

O d)  
NAFDA  
C e)  
WHO

4. \_\_\_\_\_ is the present UN  
secretary general a) Goodluck  
Jonathan  
b) Kelvin  
Little c)  
Henry  
Jones d)  
Ban ki-  
moon  
e) Julius Ephrame

[www.sabumedic.com.ng](http://www.sabumedic.com.ng) +2348144544917  
+2348167696856

5. Nigeria won the 2013 edition to the under -  
17 world cup in: a) United state of  
America  
b) United Arab  
Emirate c)  
United kingdom  
d) Democratic Republic  
of Congo e) Philadelphia

**Write the full meaning of the following abbreviations;**

6.  
NANNM  
7.  
PATHS  
8.  
ECWA  
9. SIM  
10. NCC  
•  
DFID •  
MJOS  
• ILO  
•  
NAFDAC  
• HIV  
•  
MTN •

WHO

•

UNICEF

•

UNESCO

• UAE

[www.salutemedic.com.ng](http://www.salutemedic.com.ng) +2348144544917  
+234816769856

**THIRD YEAR**  
**SCHOOL OF NURSING ENTRANCE**  
**EXAMINATION**

**TIME ALLOWED: 1 Hour**

- Do not open your question booklets until you are told to do so.
- The examination consists of six sections labeled A to F. all the questions irrespective of the sections carry equal mark.
- Section A- English language 20 questions • Section B- mathematics 20 questions
- Section C- Biology 20 questions
- Section D- Chemistry 15 questions • Section E- Physics 15 questions
- Section F- Current Affairs 10 questions • Answer all questions appropriately
- Use the answer sheet provided
- Use HB pencil to shade the correct answer for each question. Ensure that any shading made in error is thoroughly erased.

- Write your **NAME, EXAMINATION NUMBER** and other needed information in the appropriate spaces on the answer sheet. Shade carefully the space with the same number or letter as each digit or letter.
- Any **candidate caught cheating** in the course of the examination will be duly penalized. • The **interview date** will be made known to the public as soon as possible.

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**SECTION A**  
**ENGLISH LANGUAGE**

From the words lettered A to E, choose the word that best completes each of the following sentences

1. The kidnappers demanded a \_\_\_\_\_ of N80,000 before they would release the rich business man.
  - a) Fee
  - b) Reward
  - c) Freelance
  - d) Condition
  - e) Ransom
  
2. The governor scolded the contractors for the poor \_\_\_\_\_ of the project
  - a) Vacation
  - b) Termination
  - c) \_\_\_\_\_

Foundation

d)

Execution

e)

Installation

3. His decision to terminate the agreement was \_\_\_\_\_ as he did not consult the other party

a)

Unnecessar

y b) Blased

c) Cruel

d) Unilateral

e) Unequivocal

[www.vahmedic.com.ng](http://www.vahmedic.com.ng) +2348144544917  
+2348167696856

4. More often than not the law \_\_\_\_\_ on individual's freedom
- a) Overrules
  - b) Oversteps
  - c) Encroaches
  - d) Oversteps
  - e) Ex-terminates
5. Simply because of the hard times, many workers now live in a state of \_\_\_\_\_ poverty.
- a) Serious
  - b) Absolute
  - c) Abject
  - d) Affluent
  - e) Imaginable
6. The threat that he would be expelled from school if he failed his examination again \_\_\_\_\_ him into seriousness.
- a) Coaxed
  - b) Lured
  - c) Jolted
  - d) Hypnotize
  - d e) Incensed
7. It is really a \_\_\_\_\_; the more you look, the less you see,
- a) Hyperbole
  - b) Simile

- c)  
Paradox
- d) Fact
- e) stress
8. The new car is strikingly attractive but I very much doubt its \_\_\_\_\_ a) Hyperbole
- b)  
Durability
- c)  
Longevity
- d)  
Complexity
- e) Homogeneity
9. Francis should not have taken offence at Collins' seemingly \_\_\_\_\_ comments. a) Innocuous
- b)  
Notorious
- c)  
Ridiculous
- d)  
Ludicrous
- e)  
Raucous
10. As Garuba was first offender, the magistrate merely \_\_\_\_\_ and discharged him a) Sanctioned

[www.sadmedic.com.ng](http://www.sadmedic.com.ng) +2348144544917  
+2348167696856

- b)  
Threatened
- c)  
Cautioned
- d) Bullied
- e) Sentenced

***From the words lettered A to E choose the word that RHYMES with the give word.***

11. Corps

- a)  
Queue
- b)  
Corpse
- c)  
Coup
- d)  
Core

12. Fuel

- a)  
Quail
- b)  
Field
- c)  
Duel
- d)  
Freak

13. Table

- a)  
Status
- b)  
Label
- c)  
Tablet
- d)  
Cater

14. Chair

- a)  
There
- b)  
Fear
- c)  
Fiery
- d)  
Cheer

15. Sour

- a)  
Pour
- b)  
Sore
- c)  
Drawer
- d)  
Power

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

**From the word lettered A to D choose the one that has the CORRECT STRESS.**

16. Circumstances

- a) CIR-cum-stan-ces
- b) Cir-CUM-stan-ces
- c) Cir-cum-STAN-ces
- d) Cir-cum-stan-CES

17. Contribution

- a) CON-tri-bu-tion
- b) Con-TRI-bu-tion
- c) Con-tri-BU-tion
- d) Con-tri-bu-TION

18. Criticism

- a) CRI-ti-ci-sm
- b) cri-ti-CI-sm
- c) cri-TI-ci-sm
- d) cri-ti-ci-SM

19. Inadequate

- a) in-ad-E-quate
- b) IN-ad-e-quate
- c) in-ad-e-QUATE
- d) in-ad-e-QUATE

in-AD-e-  
quate

20. manipulate

- a) MA-nip-  
u-late
- b) ma-  
NIP-u-late
- c) ma-nip-U-  
late
- d) ma-  
nip-u-LATE

[www.vahamedic.com.ng](http://www.vahamedic.com.ng) +2348144544917  
+2348167696856

**SECTION B**  
**MATHEMATICS**

1. a chord is 4cm from the centre of a circle of radius 5cm. what is the exact length of the chord?
  - a) 5.4cm
  - b) 4.0cm
  - c) 3.0cm
  - d) 6.0cm
2. Factorize  $5b^2 - 11b + 6 = 0$ 
  - a)  $\frac{1}{5}$  and 6
  - b)  $\frac{5}{6}$  and 1
  - c) 5 and 6
  - d)  $\frac{6}{5}$  and 1
3. The fourth term of an A.P is 65 and its seventh term is 80. What is the sum of its first term a) and common difference d)
  - a)

45

b)

55

c)

65

d)

75

4. The area A) of a square whose radius

is 11mm is ? a)  $121\text{mm}^2$

b)

$22\text{mm}^2$

c)

$121\text{cm}^2$

d)

$22\text{cm}^2$

5. Solve  $\sqrt{75} - 3\sqrt{12}$

+1 a)  $\sqrt{3} - 2$

b)  $8 + \sqrt{5}$

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

c)  $\sqrt[3]{+1}$

d)  $2\sqrt{3+1}$

$3+1$

6. Express 0.000085 in standard form a)

Nine.85 x  $10^5$

b)  $8.\overline{9}5$  x

$10^5$  c)

Ninety8.5 x

$10^{-5}$  d)

Nine.85 x  $10^{-5}$

7. The arithmetic means of 2,8,5,q, 18 and 12 is 10. What is the possible value of q? a) 10

b)

15 c)

20

d)

25

8. The distance measured along the great circle is give by; a)  $\theta \times 2\pi r$

$360^\circ$

b)  $\frac{\theta}{360^\circ} \times$

$2\pi r$

$360^\circ$

c)  $\frac{\theta}{360^\circ} \times$

$2\pi r$

$360^\circ$

$$d) \frac{\theta}{2\pi} x$$

$$360^\circ$$

9. Solve the inequality  
 $4q+20>8$

3

a)  $q <$

1 b)  $q$

$> -1$  c)

$q > 1$  d)

$q > 1$

10. which of the following is a factor of  $f[x] =$

$5x^3 + 2x^2 - 6x - 1$ . a)  $X - 1$

b)

$X - 1$  —

c)

$X - 1$

d)  $-1$

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

X

11. If A [50°N, 62°S] and B [50°N, 28°W] are two locations on the earth's surface, calculate the difference in their longitudes.

a) 50°

b) –

9°

c) –

50° d)

9°

12. The locus of a point Q which is equidistant from two points M and N is? a) A circle of chord /MN/

b) A tangent Q to /MN/

c) A straight line perpendicular to Q

d) A straight line perpendicular to /MN/

13. What is the probability that a man will not die on his birthday if 365 days equals a year. a)  $\frac{1}{365}$

$\frac{1}{365}$

b)  $\frac{1}{364}$

$\frac{1}{364}$

$\frac{1}{365}$

c)  $\frac{1}{12}$

$\frac{1}{12}$

d)  $\frac{1}{2}$

$\frac{1}{2}$

14. The sum of the angles at a point is; e) Equal to zero

zero

f) Is two times the sum of the angles on a straight line g) Equivalent to 1800

h) None of the above

15. Solve the simultaneous equations:

$$X+3y$$

$$=1 -$$

$$X+y=$$

3

a) 1 and

-1 b) 1

and -2 c)

2 and -2

d) 1 and

2

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

16. A is inversely proportional to the square-root of B. but when is 10, B just 81. What is the relationship between A and B?

a)  $A = \frac{\sqrt{\text{nine}}}{B+1}$

b)  $A = \frac{\sqrt{\text{ni ne}}}{B}$

c)  $A = \frac{\sqrt{\text{nin eo}}}{B}$

d)  $A = \frac{\sqrt{\text{nin eo}}}{B}$

17. If S represents the sum of all the interior angles of any polygon, then S equals?

a)  $2n-4] 180^{\circ}$

a)  $4n-2$

nineo<sup>0</sup> b)

2n-

4]nineo<sup>0</sup>

n

c)  $[2n -4] \text{ nineo}^0$

18. a rectangle whose dimension is xcm by Ycm has a perimeter of

\_\_\_\_\_

a) 2

[xY] b)

4 [x+y]

c) 2

[x+y]

d)

[xy]<sup>2</sup>

Nineteen. A straight line drawn from one part of the circumference of a circle through the centre to another part is called?

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

- a)  
Chord
- b)  
Tangent
- c)  
Parabola
- d)  
Quadrant
- e)  
Diameter

21. Sine, cosine and tangent values are all positive in which quadrant? a) Fourth quadrant  
b) First quadrant  
c) Second quadrant  
d) Third quadrant

## SECTION C

### BIOLOGY

1. In the human eye, image is usually formed at the \_\_\_\_\_ and it is usually \_\_\_\_\_. a) Optic nerve and inverted  
b) Retina and inverted  
c) Retina and erect  
d) Lens and erect  
e) Lens and inverted
2. \_\_\_\_\_ is often referred to as the master gland in the endocrine system. a) Hypothalamus  
b) Corpus callosum  
c) Adrenal gland  
d) Thalamus  
e) Pituitary gland

3. The first set of teeth in human are called \_\_\_\_\_
- a) Infant dentition
  - b) Primitive dentition
  - c) Involuntary teeth
  - d) Milk or primary teeth
  - e) None of the above

4. I-Ultra filtration  
II-Selective reabsorption  
III-Tubular secretion

Which of the processes above is/are involved in the urine formation?

- a) I and II only
- b) II and III only
- c) I and III only
- d) II only

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

- e) I, II and III
5. Parasites that live and feed inside their hosts are called \_\_\_\_\_
- Tenoparasites
  - Ectoparasites
  - Holoparasits
  - Endoparasite
  - Indoparasite
6. The name given to the harmful substances produced by micro-organism are?
- Poisions
  - Endorphin
  - Toxins
  - Venonms
  - Kinins
7. The three parts of the small intestine of man are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ respectively
- Ileum, jejunum and appendix
  - Duodenum, appendix and ileum
  - Duodenum, jejunum and ileum
  - Jejunum, appendix and caecum
  - Jejunum, duodenum and rumen
8. The right lung has \_\_\_\_\_

number of lobes? a) Two

b)

Four c)

One d)

Three

e)

Half

9. Enzymes are organic catalysts that;

a) Speed-up the rate of biochemical reactions  
b) Slow-down the rate of biochemical reactions  
c) Halt every biochemical reaction

d) Maintain equilibrium in any reaction

10. Blood from the legs, abdomen, pelvis, and perineum return to the hart through \_\_\_\_\_ a) Abbominal Aorta

b) Abdomno-pelvic veins c)

Inferior vena-cava

d) Superior vena-cave

[www.vahamedic.com.ng](http://www.vahamedic.com.ng) +2348144544917  
+2348167696856

- e) Hepatic portal vein
11. The outer and the inner parts of the kidney are called \_\_\_\_\_ and \_\_\_\_\_ respectively
- a) Medulla & cortex
  - b) Pyramid & medulla
  - c) Cortex and nephron
  - d) Cortex and medulla
  - e) Medulla and nephron
12. The total number of bones in the skeletal system of man is?
- a) 406
  - b) 306
  - c) 206
  - d) 56
13. The cerebrum is found in the;
- a) Mid-brain
  - b) Hindbrain
  - c) Forebrain
  - d) Spinal cord
  - e) Peri-thalamus
14. An Important muscle of respiration is the;
- a) Tricep muscler

- b) Bicep muscle
- c) Jugular vein
- d) Diaphragm
- e) C and D

15. Which of the following is not a member of the vitamin B family? a) Vitamin B<sub>1</sub>

- b) Vitamin B<sub>12</sub>
- c) Vitamin B<sub>10</sub>
- d) Vitamin B<sub>3</sub>
- e) Vitamin B<sub>6</sub>

16. The functional unit of the nervous system is? a) Nephron

- b) Pneumocyte
- c) Neuron
- d) hepatocytes
- e) nerve endings

[www.vahamedic.com.ng](http://www.vahamedic.com.ng) +2348144544917  
+2348167696856

17. \_\_\_\_\_ are term the

body soldiers a)

Leucocytes

b)

Lymphocytes

c)

Thrombocyte

s d)

Erythrocytes

e) Bone

marrow

18. Eyes spot is a

feature of: a)

Euglena viridis

b)

Plasmodium sp

c) Amoeba

proteus

d) Paramecium

caudatum e)

Volvox colony

19. Cell was discovered by \_\_\_\_\_ in the

year \_\_\_\_\_ a) Robert Hooke,

1665

b) Robert Hooke,

1665 c) Thomas

Hooke, 1866 d)

James Hooke,

1665 e) Albert

Hooke, 1865

20. Deep knowledge of biology is important to the study of;
- a) Nursing science
  - b) Medicine and surgery
  - c) Chemical engineering
  - d) Architecture
  - e) Options A and B

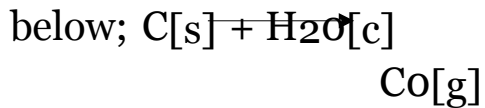
[www.sadmedic.com.ng](http://www.sadmedic.com.ng) +2348144544917  
+2348167696856

## SECTION D

### CHEMISTRY

1. It was observed that substance X has the ability to lose mass when exposed to air, then X is likely to be \_\_\_\_\_ salt.
  - a) Efflorescent
  - b) Deliquescent
  - c) Hygroscopic
  - d) Effervescent
  - e) Fluorescent
2. An organic compound used as an aesthetic agent is?
  - a)  $\text{CH}_4$
  - b)  $\text{C}_6\text{H}_5\text{Cl}$
  - c)  $\text{CH}_3\text{Br}$
  - d)  $\text{CHCl}_3$
  - e)  $\text{CH}_3\text{OH}$

3. Consider the reaction given



If the reaction was carried out about  $27^\circ\text{C}$  & the enthalpy and entropy changes were  $+ 4500 \text{ J}$  and  $+ 12 \text{ J}$  respectively. Then calculate the Gibb's free energy change

- a)  $+ 800 \text{ J}$
  - b)  $+ 900 \text{ J}$
  - c)  $- 800 \text{ J}$
  - d)  $- 900 \text{ J}$
  - e)  $+ 700 \text{ J}$
4. The common substance used in the manufacturing of photographic chemicals is?
- a) Sodium chloride
  - b) Lead chloride
  - c) Ammonium chloride

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- d) Zinc  
chloride e)  
Silver  
chloride
5. What is the total number of carbons in every phenol ring? a) 4  
b)  
5 c)  
6  
d)  
7 e)  
3
6. The separation technique that suits the petroleum industry is? a) Chromatography  
b) Fractional  
chrySTALLIZATION c)  
Centrifugation  
d) Distillation  
e) Fractional distillation
7. The number of substitutable hydrogen atom[s] in an acid is called? a) Acidity  
b)  
Corrosivity  
c)  
Basicity  
d)  
Activity  
e)  
Reactivity
8. A substance that conducts electricity either in liquid or molten state is termed? a) Ferrolyte

- b) Lead  
accumulator c)  
Electrode  
d) Moltar  
e) Electrolyte
9. The structure of benzene was drawn  
by \_\_\_\_\_ a) Benjamin  
Kekule  
b) Thomas  
martins c)  
Henry  
bexquerel d)  
Graham  
e) August Kekule
10. A metal that forms a dirty green precipitate when NaOH  
is added in drops is? a)  $\text{Fe}^{3+}$   
b)  
 $\text{Al}^{3+}$   
c)  
 $\text{Pb}^{2+}$

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

d)

Fe<sup>2+</sup>

e)

Cu<sup>2+</sup>

11. Consider the reaction;  $2\text{NaNO}_3 + \text{H}_2\text{SO}_4 \rightarrow 2\text{HNO}_3 + \text{Na}_2\text{SO}_4$  it can be concluded that the reaction is a?

a) Displacement

reaction b)

Combination

reaction c)

Decomposition

reaction d)

Oxidation reaction

e) Combustion reaction

12. Bronze is an alloy of copper and

\_\_\_\_\_ a) Lead

b)

Zinc

c)

Tin

d)

Cobalt

e)

Nickel

13. Ammonia is largely

produced by; a)

Contact process

b) Solvay

process c)

Bosh process

d) Haber

process e)  
Electrolysis

14. The name given to the acid present in all proteins is? a) Citric acid  
b) Palmitic acid  
c) Uric acid  
d) Amino acid  
e) Alkanoic acid

15. The pOH of 0.1 molar HCl is equivalent to? a) 1.0  
b) 2.0  
c) -1.0  
d) -2.0  
e) 13.0

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

**SECTION E**  
**PHYSICS**

1. The ability of any fluid to move up in a narrow capillary tube is termed? a) Capillary refill  
b) Capillarology  
c) Capillarity  
d) Capillarity  
e) Osmo-capillary f) A and D only
2. It is now a true phenomenon that evaporation causes? a) Regelation  
b) Cooling  
c) Tingling  
d) Staining  
e) All of the above
3. The inverse of resistivity is called? a)

Conductivity

b)

Impedance

c)

Relativity

d)

Elasticity

e) Phase angle

4. The velocity of radio waves is  $3 \times 10^8$  m/s. what is the frequency of the wave if the wave length of the radio wares is just  $1.5 \times 10^{-2}$  m.

a)  $2.0 \times 10^{-$

$10$  Hz b)

$2.0 \times 10^6$  Hz

c)  $2.0 \times 10^{10}$

d)  $0.2 \times$

$10^6$  e)

$2.0 \times 10^{-$

6

[www.vahmedic.com.ng](http://www.vahmedic.com.ng) +2348144544917  
+2348167696856

5. Which of the following is true about cathode rays? a) They are fast moving protons  
b) They can be found in the electromagnetic field c) They are just helium particles  
d) Streams of electrons e) Options B and D
6. Calculate the period of a wave whose frequency is 0.5Hz a) 0.5sec  
b) 1.0 sec c) 1.5 sec  
d) 2.0 sec e) 2.5 sec
7. The ray commonly used In the hospital settings is? a) Alpha rays  
b) Gamma rays c) Theta rays  
d) Infrared rays e) X-rays
8. Long sightedness can be easily corrected by using \_\_\_\_\_ a) A convex mirror  
b) A plane mirror c) A

concave lens  
d) A concave  
mirror e) A  
convex lens

9. Three capacitors of capacitance 2 $\mu$ f, 4 $\mu$ f and 8 $\mu$ f are connected in parallel and a p.d of 6v is maintained across each capacitor, the total energy stored is

a)  $2.54 \times 10^{-4}$  J

b) 6. Nineo x

$10^{-4}$  J c) 2.52

x  $10^{-6}$  J

d) 6.nineo x

$10^{-6}$  J e)

$2.52 \times 10^4$  J

10. A well arranged open series circuit has a resistance which is equivalent to \_\_\_\_\_ a) Double the normal value of the series

b) Zero percentage of that of the actual value.

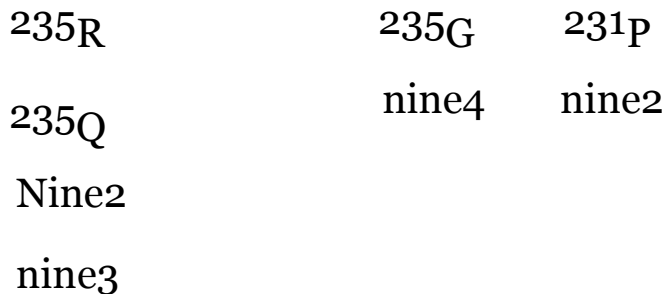
[www.sadmedic.com.ng](http://www.sadmedic.com.ng) +2348144544917  
+2348167696856

- c) Infinite
- d) One quarter of the actual value expected
- e) None of the above

11. The optimum range of accommodation of a normal human eye is
- a) -25m to 25m
  - b) From infinite to about 25m
  - c) 0m to 0.25m
  - d) 0.25m to infinite
  - e) From infinite to infinite

→                      →                      →

12. Consider the series given below;



The particles emitted are

- respectively a)  $\alpha, \beta, \gamma$  Particles
- b)  $\beta, \beta, \gamma$  Particles
- c)  $\beta, \beta, \alpha$  Particles
- d)  $\alpha, \alpha, \beta$  Particles

13. which of the following is correct according to

- Albert Einstein a)  $E = Mc^2$
- b)  $M =$
- $Ec^2$  c)

$$M = hf^0$$

$$d) f =$$

$$Mc^2 e)$$

$$E = Mf$$

H

14. Calculate the half life of a radio active element whose decay constant is 0.330/sec a) 2.10sec  
b) 0.50 sec  
c) - 2.10 sec  
d) -0.50 sec  
e) 1.20 sec
15. The process by which electron exit the surface of hot element is called? a) Electro-ejection  
b) Hot-targeting  
c) Illumination  
d) Thermionic emission

[www.sahucmedic.com.ng](http://www.sahucmedic.com.ng) +2348144544917  
+2348167696856

e) Radicalization

## SECTION F

### CURRENT AFFAIRS

1. A US drone strike in northwest Pakistan killed al-Qaida's second in-command \_\_\_\_\_? a) Ayman al-zawahiri  
b) Abu yahya al-libi c) Hasan Qayid  
d) Osama Bin Laden
2. The largest dam in Africa is \_\_\_\_\_ located in \_\_\_\_\_ a) Akosombo, Cotonou  
b) Ero, Nigeria  
c) Aquarua, Warri  
d) Akomombo, Ghana
3. MBBS is to medicine and surgery as \_\_\_\_\_ is to nursing science a) BSC  
b) BRN  
c) LLB  
d)

BNSC

e)

4. The richest man in Africa in the year 2012/2013 ranking is? a) Bill gate

b)

Obama

c)

Otedola

d)

Dangote

5. The tallest building in Oyo state is ? a) Alafin's palace

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- b) Adedibu's plaza
  - c) Cocoa house
  - d) New governor's office
6. The following are the qualities of a good nurse except
- a) Neatness
  - b) Punctuality
  - c) Arrogancy
  - d) Thruthfulness
7. The first federal capital of Nigeria was
- a) Calabar
  - b) Ibadan
  - c) Jos
  - d) Lagos
8. The total number of the local governments Ekiti State is \_\_\_\_\_
- a) 14
  - b) 18
  - c) 16
  - d) 12
9. The approved number of years for any political holder in Nigeria is?
- a) 8 years for simple term
  - b) 4 years for single term
  - c) 6 years for single term
  - d) 2 years for single term
10. In recent times, Nigeria changed from military rule to civilian

rule in the year \_\_\_\_\_ a) 1nine60  
b) 1nine84  
c) 1ninten  
ninety-nine d)  
2000

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

**FOURTH YEAR**  
**SCHOOL OF NURSING ENTRANCE**  
**EXAMINATION**

**Time Allowed: 1 Hour**

- Do not open your question booklets until you are told to do so.
- The examination consists of six sections labeled A to F. all the questions irrespective of the sections carry equal mark.
- Section A- English language 20 questions • Section B- mathematics 20 questions
- Section C- Biology 20 questions
- Section D- Chemistry 15 questions • Section E- Physics 15 questions
- Section F- Current Affairs 10 questions • Answer all questions appropriately
- Use the answer sheet provided
- Use HB pencil to shade the correct answer for each question. Ensure that any shading made in error is thoroughly erased.

- Write your **NAME, EXAMINATION NUMBER** and other needed information in the appropriate spaces on the answer sheet. Shade carefully the space with the same number or letter as each digit or letter.
- Any **candidate caught cheating** in the course of the examination will be duly penalized. • The **interview date** will be made known to the public as soon as possible.

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**SECTION A**  
**ENGLISH LANGUAGE**

Read the following passage carefully and then answer the questions that follow.

**PASSAGE**

You would think that the common cold should be easy enough to study. But it is not so easy as it looks. Colds often seem to spread from one person to another, so it is often assumed that the cold must be infectious, but there are some puzzling observations which do not fit in with this theory. An investigator in Holland examined some eight thousand volunteers from different areas and came to the conclusion that in each group of thousand volunteers from different areas, the colds all appeared at the same time-transfer of infection from case to case, could not account for that. Yet at the common cold research unit in Salisbury, the infection theory has been tested out, two series of about two hundred people each were inoculated, one with salt water and the other with secretions from known cold victims. Only one of the salt-water group got a cold, compared with seventy-three in the other group.

In the British medical journal the other day, there was a report of a meeting, “the common cold-fact and Fancy” at which one of the speakers reported a study of colds made in Cirencester over the last five years. Three hundred and fifty volunteer had kept dairy records of their colds and on an average each had seven every year with annual morbidity of seventy days. So nearly one fifth of our lives is spent in more or less misery, coughing and sneezing, some widely held beliefs about the common cold have turned out not to be true. It seems that old people are just liable to colds as he young. Sailors in isolated weather ship have just as many colds while on board and not in contact with the outside world as when on shore. It is a truism that common illnesses pose more problems than the rare, the rare disease is but

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

comparison much easier to handle. There are not so many cases and all of them have been intensively studied. Some have read up all the literature about the disease and published a digest of it. There will be more facts and fewer fancies.

### Questions:

1. Which of the following statements can be implied from the passage?
  - a) People catch more colds in winter
  - b) The origin of colds is inconclusive
  - c) People catch more colds in warm weather
  - d) People catch colds equally in warm and cold weather
2. A rare disease can be easily death with than the common cold because
  - a) Medical experts are fed-up with the rampant cases of common colds
  - b) People easily develop resistance to the common colds
  - c) Adequate research exists to uncover facts about such rare diseases
  - d) Common colds are easily not in the province of the orthodox medical experts.
3. According to the writer, some widely held beliefs about the common colds are:
  - a) Inevitable
  - b) Irreconcilabl

e c)

Fallacious

d) Societal

4. From the information in the passage, there is evidence;

a) Against the theory that the common cold is infectious

b) For the theory that the common cold is

indeed infectious c) That old people are

immune against common cold

d) That medical reports are silent on facts about

common colds 5. The Cirencester volunteers kept a record of their colds through;

a) The British medical

journal b) Morbidity

rates

c) Temperature recordings

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

d) Personal diaries.

## SECTION B

Select a word from the options A-E that is nearest in meaning to the underlined word and a the same tie fills te blank space in the sentence correctly

6. The dissidents held several CLANDESTINE meetings before the attack. a) Secret Ticket Office  
b) Important  
c) Imprompt  
u d) Exclusive
7. The principal warned the final year students about the implications of PROCRASTINATION  
a) Haste  
b) Delay  
c) Protesting  
d) Rioting

8. The guest speaker was described a man of very ALLURING personality a) Tempestuous  
b) Mercurial  
c) Voluble  
d) Intricate
9. The professor showed much ERUDITION in the lecture he delivered a) Quotation  
b) Learning  
c) Ostentation  
d) Acclamatio  
n e) Tautology

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

10. The evidence of the witness CORROBORATED that of the accused, a) Contradicted  
b) Prosecuted  
c) Confirmed  
d) Sentenced  
e) Suspended

### SECTION C

From the words lettered A to D, choose the word or group of words that best complete each of the following sentences

11. The \_\_\_\_\_ of all the states in the federation are having a meeting at Abuja a) Attorney-generals  
b) Attorney-generals c) Attorney-generals d) Attorney-generals
12. Toyin's fever was so acute that she \_\_\_\_\_ an injection a) Had to have  
b) Had to had c) Must have

d) Ought to have  
13. The press must cater for the needs of the  
\_\_\_\_\_ public a) Readers

b)  
Readable

c)  
Reading

d)  
Reader

14. People are always afraid to visit Mr Ade because  
he is \_\_\_\_\_ a) An army

b) A soldier

c) An army

man d) A  
military

[www.sadmedic.com.ng](http://www.sadmedic.com.ng) +2348144544917  
+2348167696856

From options A-E select a word that is nearly opposite in meaning to the underlined word and at the same time fills the blank space in the sentence correctly.

15. People enjoy stories with \_\_\_\_\_ settings rather than those with FAR-FETCHED background

- a) Practical
- b) Realistic
- c) Artificial
- d) Undefined

16. I thought that the comments made by the secretary were INNOCUOUS but the chairman considered them \_\_\_\_\_

- a) Polite
- b) Inappropriat
- e c) Antagonistic
- d) Unnecessary
- e) Harmful

17. People who are normally \_\_\_\_\_ often turn to be DAUNTLESS heroes in the face of red anger

- a) Unsteadily
- b) Colourless

- c)  
Cowardly
- d) Bashful
- e) Unfriendly

18. The principal announced that the cleaning of the school garden would be VOLUNTARY and not \_\_\_\_\_

- a)  
Obligatory
- b)  
Deliberate
- c)  
Essential
- d)  
Imprompt
- u e)  
Increased

19. On hearing that one of her colleagues had been promoted over her head, many felt a great deal of RESENTMENT but derived some \_\_\_\_\_ from the remarks made by her boss.

- a) Pleasure
- b) Compensation

[www.sahucmedic.com.ng](http://www.sahucmedic.com.ng) +2348144544917  
+2348167696856

- c) Indebtedness
- s d) Superiority

20. A teacher's job can often be very TAXING but sometimes it can be \_\_\_\_\_
- a) Exasperating
  - b) Well paid
  - c) Inspiring
  - d) Boring
  - e) Easy

## SECTION B

### MATHEMATICS

1. Which of the following bearing is equivalent to  $S50^{\circ}W$ ?
  - a)  $040^{\circ}$
  - b)  $130^{\circ}$
  - c)  $220^{\circ}$
  - d)  $230^{\circ}$
2. Given that  $\log_4 a = -3$ , what is the value of a?
  - a) 1
  - b) 81
  - c) 1

6

4

c)

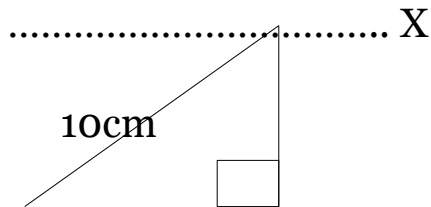
64

d)

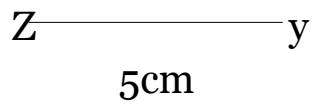
81

3. In the diagram below  $xy$  is a vertical pole and  $zy$  is the horizontal.

Given that  $xz = 10\text{cm}$  and  $yz = 5\text{cm}$ , calculate the angle of depression of  $z$  from  $x$



[www.sahumedic.com.ng](http://www.sahumedic.com.ng) +2348144544917  
+2348167696856



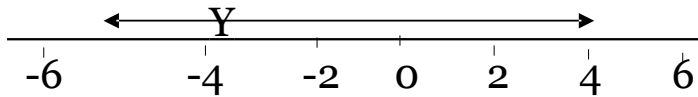
- a)  
 $63^{\circ}$   
 b)  
 $60^{\circ}$   
 c)  
 $45^{\circ}$   
 d)  
 $27^{\circ}$
4. What is the value of y if  
 $27^{[1+y]} = \text{nine}$  a) -3  
 b) -  
 $\frac{1}{3}$  c)  
 $\frac{5}{3}$   
 d) 2
5. If  $104n = 68$ , find the  
 value of n. a) 5  
 b)  
 7 c)  
 8  
 d) Nine
6. If the interior angles of a hexagon are  $107^{\circ}$ ,  $150^{\circ}$ , ninety-five $^{\circ}$ ,  $[2x - 15]^{\circ}$  and  $123^{\circ}$ , find x. a)  $57\frac{1}{2}^{\circ}$   
 b)  
 $65^{\circ}$   
 c)  
 $106^{\circ}$   
 d)

$120^0$

7. If  $y$  is inversely proportional to the square root of  $x$  and  $x = 16$  when  $y = 2$ , then find  $x$  when  $y = 24$

- a)  $1/9$
- b)  $1/6$
- c)  $1/3$
- d)  $2/3$

8. The number line below represents;



- a)  $-6 < y < 4$
- b)  $6 < y < 4$
- c)  $-6 < y < 4$
- d)  $6 < y < 4$

9. Evaluate  $y^2 + y - 2$

when  $2y$

$+y - 3$

$Y = 1$

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

- a) -2
- b) -1
- c) -  
1/2
- d) 1

10. All of the following are quadratic

equations except; a)  $Y = x^2 + 3x$

b)  $Y = 4$

[ $x+2$ ] c)

$Y = 8x^2 - 5$

d)  $Y$

$= x[x+1]$

11. The formula  $2^{2n-1}$  denotes the  $n$ th term of a sequence. Which

term of the sequence is  $2^{12}$  a) 11<sup>th</sup>

b)

6<sup>th</sup>

c)

10<sup>th</sup>

d)

8<sup>th</sup>

12. The height of a right circular cone is 4cm. the radius of its base is 3cm. find its curved surface area

a)

$15\pi \text{ cm}^2$

b)

$15\pi \text{ cm}^2$

c)

$$16\pi\text{cm}^2$$

d)

$$20\pi\text{cm}^2$$

13. A number is selected at random from the set  $y = [18, 1, 20, \dots, 28, 29]$ . Find the probability that the number is a prime

a)

$$1/4$$

b)

$$1/8$$

c)

$$1/2$$

d)

$$3/4$$

14. Simplify  $5 \frac{1}{4} \div$

$$\frac{1 \frac{2}{3} - 1}{4}$$

$$\frac{3}{2}$$

a)  $\frac{1}{34}$

$$\frac{3}{4}$$

b)  $\frac{3}{1}$

$$\frac{1}{2}$$

$$2$$

c)  $\frac{4}{1}$

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

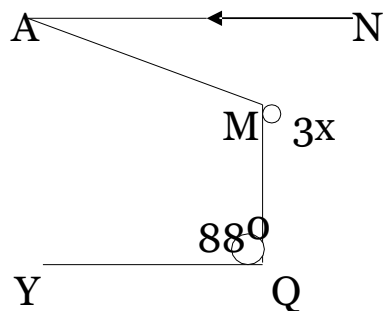
2

d) 8

1

2

15.



In the diagram above,  $AN \parallel YQ$  and  $\angle MQY = 88^\circ$ . What is the value of  $x$ .

a) Ninety-

two b)

680

c)

670

d)

230

16. Solve  $\sqrt{3} \sqrt{12} + \sqrt{10} \sqrt{3} - 6$

a)  $7\sqrt{3}$

b)  $10\sqrt{3}$

c)

14 d) 18

3  
3

17. The logarithm of any number or alphabet to the base of itself equals? a) Zero  
b) Minus one  
c) The square of the number or alphabet d) One

18. The identity  $\tan^2 \theta + \cos^2 \theta$  equals a)  
Minus half  
b) Plus one

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

c)  $\cot^2 \theta$

d) All of the above

19. A prime number is any number that;

a) Can only be divided by one and itself  
b) Can be divided by 2

c) Cannot be divided by any other number  
d) Takes any value

20. Find the value of n which  $\frac{1}{2n^2 - 13n + 15}$  is not defined

$$2n^2 - 13n + 15$$

a) 5 or 3

b) 1 or 15  
13

c) 2 or 15  
d) 13 or 15

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

**SECTION C**  
**BIOLOGY**

1. Which of these is the terminal portion of the alimentary canal of a mammal  
a) Duodenum  
b) Oesomosis  
c) Rectum  
d) Appendix
2. The movement of molecules from a region of higher concentration to region of lower concentration until they are evenly distributed is?  
a) Osmosis  
b) Transpiratio  
n c) Diffusion  
d) Translocation
3. Malaria parasite is spread by;  
a) Culex mosquito  
b) Male anopheles mosquito  
c) Female

- anopheles mosquito d)  
Aedes mosquito
4. Blood clotting is initiated by: a)  
Platelets  
b)  
Leucocytes  
c)  
Erythrocytes  
d)  
Haemoglobin
5. A site of respiration within a cell where energy is produced from simple sugar is the a) Chromosome  
b) Nucleus

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- c)  
Mitochondri  
a d)  
Cytoplasm
6. Germination which results in the cotyledons being brought above the ground is called a) Epicotyls  
b)  
Epigeal  
c)  
Episperm  
d)  
Epiphytal
7. All of these are caused by bacteria except a) Typhoid  
b)  
Oncerciasi  
s c)  
Gonorrhea  
d)  
Tuberculosi  
s e) Cholera
8. The function of clitelum in the earthworm is to a) Secrete concoon  
b) Prevent desiccation c)  
Aid digestion  
d) Aid locomotion
9. The part of your brain that is giving you answers to all these question is; a) Cerebellum  
b) Pons  
c) Corpus callosum d)  
Cerebrum

- e) Medulla oblongata
10. The vitamin which is important in the formation of the retina pigment is a) Retinol  
 b) Cyanocobalamin  
 c) Riboflavin  
 d) Thiamine  
 e) Pyridoxine
11. Fatigue of leg muscles may occur after riding many kilometers on a bicycle because of a) Excess protein  
 b) Insufficient O<sub>2</sub>  
 c) Insufficient Glucose  
 d) None of the above
12. I cells II tissues III organs IV systems. Which of these sequences is correct. a) II IV I III  
 b) I → II → III → IV  
 c) IV → III → II → I  
 d) I III II IV

[www.value4medic.com.ng](http://www.value4medic.com.ng) +2348144544917  
 +2348167696856

13. In the respiratory system of mammals, gaseous exchange occurs at the; a) Lungs  
b) Alveoli  
c) Bronchus  
d) Bronchiole  
e) Trachea
14. During cell division, the two strands of chromosomes are joined at a point called a) Aster  
b) Centromere  
c) Spindle  
d) Chromatid
15. The presence of two alleles of the same type in the genotype of an organism implies that the organism is  
a) Homozygous  
b) Heterozygous  
c) Homologous  
d) Heterologous
16. \_\_\_\_\_ attaches a bone to a muscle a) Ligament  
b) Tendon  
c) Cartilage  
d)

## Sutures

17. An example of organ that functions as endocrine and also secretes digestive juices is a) Liver  
b) Gallbladder  
c) Pancreas  
d) Spleen  
e) Gizzard
18. An example of some harmful substance into the environment is termed a) Degradation  
b) Conflagration  
c) Pollution  
d) Pollination
19. The element common to protein, carbohydrate and lipid is a) Nitrogen  
b) Hydrogen  
c) Phosphorus  
d) Calcium  
e) Sulphur

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

20. Sting-cells are normally found in; a)  
Tapeworm  
b)  
Paramecium  
m c) Hydra  
d)  
Flatworm  
e)  
Guineeworm

**SECTION D**  
**CHEMISTRY**

1. Which of the following is not an orbital? a) f-orbital  
b) k-orbital c)  
p-orbital  
d) d-orbital e)  
s-orbital
2. which of the following halides is used in photography? a) Silver chloride  
b) Ammonium iodide c)  
Sodium bromide  
d) Silver bromide  
e) None of the above

3. What is the oxidation number of

Q in  $\text{CaQO}_3$ ? a) +4

b) -

4 c)

-2 d)

+2

e) -

3

4. A gas that turns lime water milky is? a) Carbon

monoxide

b) Calcium oxide

c) Carbon [iv]

oxide d)

Sulphur [iv]

oxide e)

Ammonia

5. Pyrogallol is used to absorb

\_\_\_\_\_ a) Oxygen

gas

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- b) Nitrogen gas
  - c) Oxygen vapour
  - d) Water vapour
  - e) None of the above
6. For an element to have a stable electronic configuration, it must conform to;
- a) Octet or duplet rule
  - b) Hybridization principles
  - c) Hund's rule
  - d) A and C
  - e) All of the above
7. Calculate the basicity of  $H_3PO_4$ .
- a) 3
  - b) 4
  - c) 2
  - d) 1
  - e) -4
8. The addition of oxygen to any element is an example of?
- a) Redox reaction
  - b) Oxidation reaction
  - c) Reduction reaction
  - d) None of the above
9. If the molar mass of an acid is  $40.0 \text{ g/mol}$  and its concentration in grammes per  $\text{dm}^3$  is  $200.0$ , find its concentration in  $\text{mol/dm}^3$
- a)  $5.00 \text{ mol/dm}^3$
  - b)  $0.50 \text{ mol/dm}^3$
  - c)  $0.005 \text{ mol/dm}^3$
  - d)  $0.005 \text{ mol/dm}^3$

50.0 mol/d<sup>3</sup>

e) 500 mol/

d<sup>3</sup>

10. The general formula for the

Alkanes is? a)

$C_nH_{2n+1}COOH$

b)

$C_nH_{2n}$

+2 c)

$C_nH_{2n}$

d)

$C_{n+1}H$

n e)

$C_{2n}H_4$

n

11. With respect to Graham's law, the rate of diffusion of any gas is? a) Proportional to the square of its density

b) Inversely proportional to the cube-root of its density c) Partly constant

d) Directly proportional to the square-root of its density e) Inversely proportional to the square-root of its density

12.  $CH_3COOH + C_2H_5OH \rightarrow CH_3COOC_2H_5 + H_2O$

[www.yadmedic.com.ng](http://www.yadmedic.com.ng) +2348144544917  
+2348167696856

The above reaction is an example of?

- a) Saponification reaction
- b) Rehydration reaction
- c) Rectification reaction
- d) Esterification reaction
- e) None of the above

13. Which of these ions usually produce blue precipitate when aqueous NaOH is added in drops

- a)  $\text{Cu}^+$
- b)  $\text{Ca}^{2+}$
- c)  $\text{Cu}^{2+}$
- d)  $\text{Zn}^{2+}$
- e)  $\text{Fe}^{2+}$

14. A group of atoms that possess an electric charge is called?

- a) Valency
- b) Complex ions
- c) Radicals
- d) Carbonic
- e) Ion exchanger

15. In the periodic table, group one

- elements are called
- a) Alkaline metals
  - b) Alkali metals
  - c) Alkaline noble metals
  - d) Noble metals
  - e) Alkali transitional metals

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+234816769856

## SECTION E

### PHYSICS

1. The force [F] in newton requires to make an object M of mass Q, travelling with velocity [k] turns circle of radius P is?

a)

$$F = \frac{QK}{P}$$

b)

$$F = \frac{KQ}{P}$$

c)

$$\frac{P}{K^2 Q}$$

d) —

K

P

2

Q

2. Mercury is a better thermometric fluid than water because I- it needs no colouring II-its density is many times greater than that of water III-its does not wet glass IV- it has a high vapour pressure V- it has a high boiling point
- Which of the statements above are correct? a) I and II only  
b) I, II and III only  
c) III and IV only  
d) IV and V only  
e) III, IV and V only
3. Which of the following is true of an electrical charges? a) Positive charge means deficit of electrons  
b) Negative charge means excess of electrons  
c) Electric current means movement of electrons  
d) All of the above [A,B or C]

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

e) A and B only

4. The figure below shows the prism arrangement in a

---

a) Projector

b)

Kaleidoscop

e c)

Periscope

d)

Gyroscope

e)

Microscope

5. The fundamental particles that can be emitted by any radioactive element are; a)  $\alpha$ - particles and  $\gamma$ - particles  
b)  $\alpha$ - particles,  $\gamma$ - rays, X-rays  
and  $\beta$ -rays c)  $\alpha$ - particles,  $\beta$ -

rays and  $\gamma$ - rays

d)  $\alpha$ - particles,  $\beta$  – particles

6. in sunlight a blue flower looks blue because we see the flower by the light it \_\_\_\_\_ a) refracts

b)

reflects

c)

deflects

d)

disperses

e)

absorbs

7. Which of the following rays is mostly used in the hospital settings?

[www.vadamedic.com.ng](http://www.vadamedic.com.ng) +2348144544917  
+2348167696856

- a)  $\gamma$ -ray
- b) X-rays
- c) Oxygen-rays
- d)  $\beta$ -rays
- e) all of the above

8. One of the following expresses the principle of transmissibility of pressure in a fluid at rest in directions

- a) Pascal's law
- b) Newton's law
- c) Charles' law
- d) Principle of floatation
- e) Archimedes principle

9. What is the resistance of a 240v, 60W electric filament bulb. a)  $0.25\Omega$

- b)  $480\Omega$
- c)  $60\Omega$
- d)  $240\Omega$
- e)  $960\Omega$

10. If a cell supplies a current of 0.5A when its E.M.F is 2v and internal resistance is  $10\Omega$  calculate its external resistance.

- a) 0.5

Ohms b)

1 Ohms

c) 2

Ohms d)

2.5 Ohms

e) 3

Ohms

11. A scalar quantity has;

a) Magnitude and direction b)

Magnitude only

c) Direction

only d) All of the above

e) None of the above

12. The velocity ratio of an incline plane

whose angle is A is? a)  $VR = \frac{1}{\sin A}$

[www.vahamedic.com.ng](http://www.vahamedic.com.ng) +2348144544917  
+2348167696856

$$\text{b) } V.R = \frac{1}{\tan A}$$

$$\text{c) } V.R = \frac{1}{\cos A}$$

$$\text{d) } V.R = \frac{1}{\cot A}$$

13. Which of the following units is equivalent to kgm/s a) N/S

b)

Nms

c) NS

d) J/

s

14. The wavelength of ultraviolet radiation is 400m. if the speed of light in air is exactly  $3 \times 10^8$  m/s, then the frequency of the ultraviolet radiation is?

a)  $1.3 \times$

$10^{12}$ HZ b)

$7.5 \times 10^5$  HZ

c)  $1.2 \times$

$10^{11}$ HZ d)

$7.5 \times$

$10^{14}$ HZ

15. The vacuum in a thermo flask helps to reduce heat loss by? a) Conduction, convection and radiation

b) Radiation only

c) Convection and radiation

d) Conduction and

radiation e)

Conduction and

convection

[www.sahumedic.com.ng](http://www.sahumedic.com.ng) +2348144544917  
+2348167696856

**SECTION F**  
**CURRENT AFFAIRS**

1. The total number of local governments in Nigeria a) 712  
b) 774  
c) 513  
d) 773
2. \_\_\_\_\_ introduced the National Youth Service Corps [NYSC] in \_\_\_\_\_ a) Dr Nnamdi Azikwe nineteen-seventy  
b) General Yakubu Gowon nineteen, seventy-three  
c) General Olusegun Obasanjo nineteen, seventy-six  
d) Alhaji Shehu Shagari nineteen, seventy-nine
3. The mother of modern nursing is \_\_\_\_\_ a) Florence Nightingale  
b) Princess Diana  
c) Funmilayo

Kuti d)  
Florence  
Shaw

4. A Nigeria whose image is printed on twenty naira note is a) Alfa Murtala Muhammed  
b) Gen. Murtala Abubakar c) Hon. Murtala Ahmed  
d) Gen. Murtal Muhammed
5. State of emergency was declared by president Goodluck Jonathan in which states a) Borno, yobe and Nasarawa  
b) Borno, Yobe and Adamawa c) Borno, Yobe and Uyo  
d) Borno, Yobe and Abuja
6. A terrorist attack was carried in USA on the;

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- a) 11<sup>th</sup> of  
September, 2001 b)  
25<sup>th</sup> of November,  
2001 c) 18<sup>th</sup>  
December 2001  
d) 2<sup>th</sup> of October 2001
7. This bomb blast was later confirmed as a terrorist's attack  
sponsored by Saudi-born Arab terrorist called
- a) Osama bin  
Ladin b)  
Yasser Arafat  
c) Osama Bin  
Ladin d)  
Abubakar  
Shekau
8. AIDS a scourge of the modern day, can best be  
avoided through; a) Avoidance of casual sex  
b) Avoidance of sharing of  
injection needles c) The use of  
condoms  
d) Avoidance of multiple  
sexual partners e) All of the  
above
9. The world's environmental day is observed  
annually on \_\_\_\_\_ a) 5<sup>th</sup> July  
b) 6<sup>th</sup> July  
c) 7<sup>th</sup> August  
d) 8<sup>th</sup> September  
e) None of the above
10. \_\_\_\_\_ issues license to  
nurses in Nigeria a) NANNM

b) nursing council of  
Nigeria c) Nigeria  
labour congress d)  
ASUU

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**FIFTY YEAR**  
**SCHOOL OF NURSING ENTRANCE**  
**EXAMINATION**

**Time Allowed: 1 Hour**

- **Do not** open your question booklets until you are told to do so.
- The examination consists of six sections labeled A to F. all the questions irrespective of the sections carry equal mark.
- Section A- English language 20 questions • Section B- mathematics 20 questions
- Section C- Biology 20 questions
- Section D- Chemistry 15 questions • Section E- Physics 15 questions
- Section F- Current Affairs 10 questions • Answer all questions appropriately
- Use the answer sheet provided
- Use HB pencil to shade the correct answer for each question. Ensure that any shading made in error is thoroughly erased.
- Write your **NAME, EXAMINATION NUMBER** and other needed information in the appropriate spaces on the answer sheet. Shade carefully the space with the same number or letter

as each digit or letter.

- Any **candidate caught cheating** in the course of the examination will be duly penalized. • The **interview date** will be made known to the public as soon as possible.

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**SECTION A**  
**ENGLISH LANGUAGE**

**Read the passage below carefully and answer the question that follow.**

It is possible to have a glimpse of life after death. Man has always believed in an after life, but only today do we have scientific reports of people who seem to have experienced the sensation of dying but lived to tell about it. Ongoing research is documenting hundreds of cases each year of the near-death experience [NDE] and scientists think they are finding a clearly indentifiable pattern: usually a man dying and, as he reaches the point of greatest physical distress he hears himself pronounced dead by his doctor. He begins to hear an uncomfortable noise, a loud ringing or buzzing and at the same time feels himself moving very rapidly through a long dark runnel. After this he suddenly finds himself outside of his own physical body, but still in the immediate physical environment and he sees his own body from a distance as though he is a spectator. He watches the resuscitation attempt from his unusual vantage point and is in a state of emotional upheaval.

After a while, he collects himself and becomes accustomed to his odd condition. He notices that he still had a “body”, but one of a very different nature and with very different powers from the physical body

he has left behind. Soon after, things begin to happen. Others come to meet and to help him.

He glimpses the spirits of relatives and friends who have already died, and a loving, warm spirit of a kind he had never encountered before “a being of light”- appears before him. This being asks him a question, nonverbally-to make him evaluate his life- and helps him along by showing him a panoramic instantaneous playback of the major events of his life. Then he finds that he must go back to the earth that the times for his death has not yet come. At this point he resists, for by now he is taken up with his experiences in the afterlife and does not want to return. He is overwhelmed by intense feelings of joy, love and peace. Despite his attitude, though, he somehow reunites with his physical body and lives

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

**[Adapted from moody, R.A [1975] life after life]**

1. The NDE man appears to be a spectator in the flurry of activities around him because
  - a) His new “body” would not allow him to participate
  - b) He is moving rapidly through a long dark tunnel
  - c) He can only watch as the events unfold
  - d) He is now a dead man
2. According to the passage, scientific evidence has made it possible
  - a) To make conjectures about what happens after death
  - b) To know a little about what happens in the world of the dead
  - c) For one to experience the sensation of dying and living again
  - d) For the dead to return and tell their experience
3. The expression as “he reaches the point to greatest physical distress”, as used in the passage means when
  - a) The man’s system finally collapses
  - b) The sick man finally stops breathing
  - c) His doctor is ready to pronounce him dead
  - d) His condition seems to get worse
4. A suitable title for the passage is
  - a) A glimpse into the world of

- the dead b) Visions of an afterlife
- c) Research into the lives of the dead
- d) The sensation of death and the afterlife
5. That the man shown “a panoramic playback of the major events of his life” suggests that a) He needs to be entertained to take his mind away from the noise around him
- b) He needs to see the difference between his past life and his new life c) There are video machines in the world beyond
- d) He was to assess his deeds in life

**In each of the questions 6 to 15, fill each gap with the most appropriate option from the list provided**

[www.sahmedic.com.ng](http://www.sahmedic.com.ng) +2348144544917  
+2348167696856

6. The man declared his intention from the \_\_\_\_\_
- a) Outset
  - b) Inset
  - c) Onset
  - d) Offset
7. The team manager told us that the race could only be won by the \_\_\_\_\_
- a) Flat-footed
  - b) Bare-footed
  - c) Swift-footed
  - d) Fore-footed
8. The governor rejected the bill and withheld its \_\_\_\_\_
- a) Accent
  - b) Assent
  - c) Access
  - d) Ascent
9. The new school is not provided with \_\_\_\_\_ for science practical
- a) Enough equipment
  - b) Equipment
  - c) An equipment
  - d) Enough equipments
10. Much as I would love to visit him, I'm afraid \_\_\_\_\_
- a) I won't
  - b) I can't
  - c) I can't be able
  - d) Of visiting him

11. Ilesa witnessed the largest \_\_\_\_\_ of writers at any convention in recent times
- a) Turn-around
  - b) Turnover
  - c) Turn-out
  - d) Turn-on
12. The warring factions need words of \_\_\_\_\_
- a) Advise
  - b) Adverse
  - c) Advises
  - d) Advice
13. The politicians were \_\_\_\_\_ by the press
- a) Marooned
  - b) Ridiculed
  - c) Eclipsed

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- d) Ostracized
14. There are many \_\_\_\_\_ to her personality
- a) Moods
  - b) Styles
  - c) Facets
  - d) Faces
15. There are several \_\_\_\_\_ in the farmyard
- a) Sheep
  - b) Ewe
  - c) Lamb
  - d) Goat

**In Questions 16 to 20, choose the option nearest in meaning to the underlined.**

16. The story has to be taken with a grain of salt.
- This means that
- a) You need some salt to listen to the story
  - b) There is no salt in the story
  - c) The story is questionable
  - d) The story is true
  - e) You have too much salt in the story
17. It is usually hard to change the course of action when one crosses the rubicon. The underlined expressions as used in the sentence, means to
- a) Pass through a place called rubicon
  - b) Cross a river called rubicon
  - c) Cross a bride called

rubicon d) Pass a special test

e) Be irrevocably committed.

18. The salesman tried to pull the wool over my eyes. This implies that the salesman tried to a) Force me to buy his goods

b) Offer me cotton

wool c) Make me

buy his wool d)

Dupe me

e) Cover my eyes with wool

19. Ijoma counted her chickens before they were hatched. This means that Ijeoma a) Regarded each egg as a chicken

b) Hatched the eggs prematurely

c) Assumed that her expectations had already

been realized d) Protected her eggs from

breaking

e) Insured the eggs

20. Sola has resigned his job with the Textile mills. He doesn't seem to worry about getting another job. His plans are still quite in the air. This means

[www.vahmedic.com.ng](http://www.vahmedic.com.ng) +2348144544917

+2348167696856

- a) Airmailed
- b) Air-tight
- c) Uncertain
- d) Certain
- e) Air-borne

**SECTION B**  
**MATEMATICS**

1. Given that  $\log_a b = c$ , express  $b$  in terms of  $a$  and  $c$
- a)  $b = a + c$
  - b)  $b = a/c$
  - c)  $b = c$
  - d)  $b = a^c$
  - e)  $a = b$

2. simplify:
- $$\frac{[1]^{-1/2}}{4}$$
- a)  $1/8$
  - b)  $1/4$

- c) 2
- d) 4
- e) 8

3. Given that  $\sin A = \frac{1}{2}$  and  $\cos A = \frac{3}{4}$ ,  
find the value  
of  $A$

- a)  $30^\circ$
- b)  $60^\circ$
- c)  $90^\circ$
- d)  $120^\circ$
- e)  $150^\circ$

The scores of 10 students in a test are: 8,4,5,11,nine,8,6,5,8  
and 6. Use this data to answer questions 4,5 and 6

4. What is the  
median score a)  
10

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

- b)  
Nine  
c) 8.5  
d) 8  
e) 7
5. Find the positive difference between the modal score and the range of the scores a) 1  
b) 2  
c) 3  
d) 4  
e) 5
6. If 2 is added to every score in the distribution, then the new mean is? a) 7  
b) Nine  
c) 10  
d) 11  
e) 13
7. In a class of 33 students, 18 play football, 1 play basket ball and 7 play both games. How many students play none of the two games?  
a) 3  
b) 8  
c) 10  
d) 5
8. Give that  $\text{Log}_a 16 = 2$  –  
 $\text{Log}_a 8 = 1$ . Find a a) 4

b) 2

c)

10

d) 5

9. Find the slope of the line

$2y + 5x = -3$  a) 5

b) -

$\frac{5}{2}$  c)

$\frac{2}{5}$

d) 3

10. What are the zeros of the function

$y = x^2 - 3x + 2$  a) 0,1

b)

1,2 c)

-1,3

d)

2,-3

11. Find the size of each exterior angle of a regular Octagon

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

- a) 450
- b) 400
- c) 500
- d) 360

12. What are the prime factors of 2520? a) 2,nine,5  
b) 2, nine, 7 c) 2,3,5,7  
d) 2,3,7,nine

13. What value of q makes the given expression a perfect square?  $a^2 - 8a + q$  a) 2  
b) 4  
c) 8  
d) 16

14. Given that  $3^y = 243$ , find the value of y a) 2  
b) 4  
c) 8  
d) 16

15. Simplify  $\frac{\text{nine}^{-1}}{1/2}$

$$27^{2/3}$$

3

a) 1

b)

1/2

c)

1/nine

d) 1/27

16. Find the equation of a line whose slope is 8 and passes through the point [-2,1] a)  $y = 8x - 2$

b)  $y$

$= 8x + 17$  c)

$y = 9 - 2x$

d)  $y = x + 6$

17. The logarithm of any number or alphabet to the base of itself equals a) half

b)

zero

c)

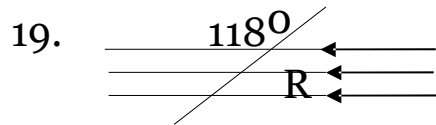
one

d) constant

[www.yalucmedic.com.ng](http://www.yalucmedic.com.ng) +2348144544917  
+2348167696856

18. if the probability that a candidate will fail his/her nursing entrance examination is  $\frac{1}{3}$ , find the probability that he/she will pass

- a)  $\frac{1}{2}$
- b)  $\frac{1}{4}$  c)  $\frac{2}{3}$
- d) -  $\frac{1}{3}$



The value of R in the diagram above is

- a) 1180
- b) 620 c) 120 d) 160

20. Consider; I  $x^2 + 1$  II  $5x + 2$  III  $x^3 - 2x^2 + 1$

Which of the equations above is /are polynomial expression [s] a) I and III only

- b) I
- only c)
- III only
- d) II
- only

[www.sahamedic.com.ng](http://www.sahamedic.com.ng) +2348144544917  
+2348167696856

## SECTION C

### BIOLOGY

1. The process of formation of sex gametes in living organisms is termed? a) Gametogenesis  
b) Spirogenesis  
c) Spermatogenesis  
d) Sexogenesis  
e) Organogenesis
2. Metabolism consists of two basic processes, namely; a) Anabolism and catabolism  
b) Parabolism and anabolism  
c) catabolism and holobolism  
d) tantabolism and superbolism  
e) metabolism and hyperbolism

3. Robert Hooke was one of the scientists that discovered
- a) Bone
  - b) Hair
  - c) Cell
  - d) Liver
  - e) Lung
4. When the concentration of the fluid surrounding a cell is less than the cell fluid concentration, the cell is?
- a) Hypotonic
  - b) Isotonic
  - c) Endotonic

[www.valuemedic.com.ng](http://www.valuemedic.com.ng) +2348144544917  
+2348167696856

- d)  
Hypertonic  
e)  
Turgid
5. Insulin hormone is produced by? a)  
Stomach  
b) Kidney  
c) Islet of Langerhans  
d) Caecum  
e) Pancreas
6. The urethra in man is a common passage for both a) Sperm and Urine  
b) Sperm and water  
c) Eggs and sperm  
d) Blood and urine  
e) Cells and urine
7. Growth in living organism means  
a) Increase in length and weight  
b) Decrease in mass and height  
c) Static in mass and size  
d) Decrease in size and height
8. When gametes from pure breeding parents with contrasting features as tallness and shortness are involved in monohybrid

cross, the offspring in the first filial generation are usually

- 
- a) Heterozygous dominant
  - b) Purer breed
  - c) Homozygous recessive
  - d) Mutants
  - e) Co-dominant

9. The function of optic nerves in the human eye is?

- a) To carry image formed on the retina to the brain
- b) To form image on the retina
- c) To interpret image on the retina
- d) To stop image forming on the retina
- e) To accept object on the retina

10. The development of diploid egg which has not been fertilized is known as?

- a) Oviparousity
- b) Viviparousity
- c) Parthenogenesis
- d) Gametogenesis
- e) Oogenesis

11. Plants store most of their energy

- as \_\_\_\_\_
- a) Glucose
  - b)

Glycogen  
c) Starch  
d)  
Sucrose  
e)  
Cellulose

12. ATP

- a) Is an amino acid
- b) Has a helical structure
- c) Is a high-energy molecule that can break down to ADP and phosphate
- d) Provides enzymes for metabolism
- e) Is most energetic when in the ADP state

13. The restoration of the diploid chromosome number after having in meiosis is due to \_\_\_\_\_

- a) Synapsis
- b)  
Fertilization
- c)  
Mitosis
- d) DNA replication
- e)  
Chiasmata

14. In which location does fertilization usually takes place

- a) Ovary
- b) Fallopian tube
- c) Uterus
- d) Cervix
- e)  
Vagina

15. Which of the following is least likely to be hermaphroditic?
- a) Earthworm
  - b) Barnacle
  - c) Tapeworm
  - d) Grasshopper
  - e) Liver fluke
16. The active site of an enzyme

- a) Is similar to that of any other enzyme
- b) Can be used over and over again
- c) Is the part of the enzyme where its substrate can fit
- d) Is not affected by environmental factors like PH and temperature
- e) Both b and c are correct

17. The mammalian cervical vertebrae invariably numbered

- a) 4
- b) 7
- c) 12
- d) 5
- e) 13

18. *Candida*

*virginialis* is a

- a) Bacterium
- b) Fungus
- c) Virus
- d) Protozoan
- e) Protist

19. Which of the following is air borne?

- a) Malaria
- b) Yellow fever
- c) Cholera
- d) Tuberculosis
- e) Green fever

20. Which of the following is not present in the nucleus of a cell?

- a) Chromosome

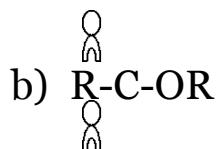
- b) Nucleus
- c) Genes
- d) Mitochondria
- e) None of the above

## **SECTION D**

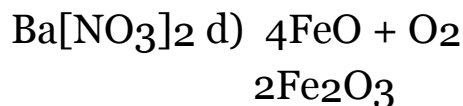
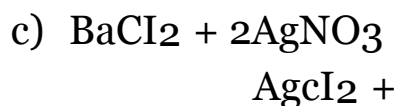
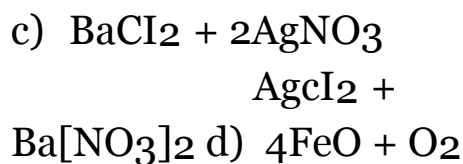
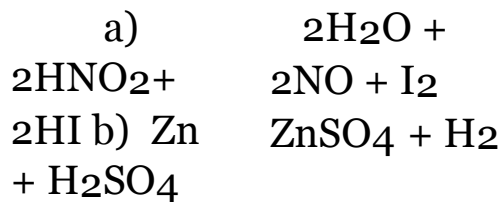
### **CHEMISTRY**

1. In the reaction  $X \rightleftharpoons Y = g+h$ , the backward reaction is favoured if the concentration of
  - a) X is increased
  - b) Y is

- increased c)  
X is reduced  
d) G is  
reduced
2. Nuclear reaction can be used in the following except? a) Gauging the thickness of an object  
b) Making atomic bombs c) Curing cancer  
d) Purifying water
3. A certain volume of a gas at 298K is heated such that its volume and pressure are now four times the original values, what is the new temperature?  
a)  
629K  
b) 431K  
c)  
1198K  
d)  
4768K
4. Dirty green precipitate is a property of a) Iron [II] salts  
b) Iron [III] salts c)  
Copper salts  
d) Lead salts
5. The general formula for carboxylic acids is



6. Which of the following is an example of a chemical change? a) Freezing of water  
b) Dissolution of NaCl in water  
c) Rusting of iron  
d) Separating a liquid mixture by distillation
7. Which of the following is not a redox reaction?



8. The functional group [s] of an amino acid is/are a)  $\text{NH}_2$ ,  
\_\_\_  $\text{CooH}$   
b)  $\text{C}_n \text{H}_{2n+1}$ ,  
\_\_\_  $\text{CooH}$  c)

\_\_\_ CoCl, CoOH

d) CoOH, CoNH<sub>2</sub>

9. Which of these substances burns in air to give a product that combines with water to give a solution whose pH is less than 7?

a)

Copper

b)

Carbon

c) Zinc

d) Magnesium

10. Ammonia is the only common

a) Alkane

gas b)

Acidic gas

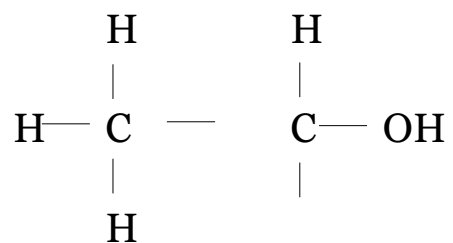
c) Alkaline

gas d)

Soluble gas

11. Which of the following air pollution cause acid rain? a) Lead oxide  
b) Sulphur dioxide c) Carbon dioxide  
d) Hydrogen sulphide
12. Petrol can be obtained from diesel by a) Distillation  
b) Cracking  
c) Catalysis  
d) Polymerization
13. The oxidation number of sulphur in tetraoxosulphate [iv] acid is? a) -6  
b) +6  
c) -4  
d) +4
14. Substance which absorb water from the atmosphere without dissolving it are said to be \_\_\_\_\_  
a) Anhydrous  
b) Hygroscopic  
c) Insoluble  
d) Hydrated
15. To which group does the compound with the following structure

belong?



H a) Alkanol

b)

Alkanoate

c)

Alkanone

d) Alkanoic acid

**SECTION D**  
**PHYSICS**

1. The equation  $P^a V^b T^c = \text{constant}$  reduces to Boyle's law only if a)  $a = 1, b = 0$  and  $c = 0$   
b)  $a = 1, b = 1$   
and  $c = 0$  c)  $a = 0,$   
 $b = 0$  and  $c = 1$  d)  
 $a = 1, b = 1$  and  $c = 1$
2. the formation of clouds results directly from \_\_\_\_\_ a) condensation  
b)  
sublimatio  
n c) fusion  
d) vaporization
3. An instrument used to measure relative humidity is called \_\_\_\_\_ a) hydrometer  
b)  
barometer  
c)  
manometer

- d)  
hygrometer
4. The action of a towel in drying the body after a bath is explained by \_\_\_\_\_
- a) diffusion
  - b) capillarity
  - c) osmosis
  - d) evaporation
5. The heat from a fire in a room is transmitted to various parts of the room primarily by \_\_\_\_\_
- a) convection

b)  
conduction

c)  
diffusion

d)  
radiation

6. The frequency of a wave having wavelength 20cm and velocity 0.5/s is a) 0.0025Hz

b)  
0.025Hz

c)  
2.5Hz

d)  
40.0Hz

7. The tension in a sonometer wire is tripled. The ratio of the new frequency of the initial frequency to the initial frequency is

a)

1/3

b) 3

c)  $\sqrt{3}$

d)  $\sqrt{3}$

8. A boy in a barber's shop sits between two parallel mirrors. The number of images observed by him will be.

a)

Infinite

b)

Double

c)

Triple

d)

Eight

9. The refractive index of a medium is 2. The

critical angle is? a)  $30^\circ$

b)

$45^\circ$

c)

$60^\circ$

d)  $90^\circ$

10. A concave lens of focal length 15cm forms an image  $\frac{1}{3}$  the size of the object. The object distance is?

a)

10cm

b)

20cm

c)

30cm

d)

60cm

11. Which of the following is not a suitable dielectric materials? a) Brass

- b) Paraffin wax
- c) Glass
- d) Ebonite

12. A current of 180 mA passes through a conductor for 5 minutes the quantity of electricity transported is?

- a) 54C
- b) 0.9C
- c) 3.6x 10<sup>-2</sup>C
- d) 6.0x10<sup>-4</sup>C

13. An electric cell of internal resistance 0.5 $\Omega$  delivers a current of 2.0A when a resistance of 3 $\Omega$  is connected across it. The EMF of the cell is?

- a) 1.0v
- b) 1.5v
- c) 2.5v
- d) 7.0v

14. The mouthpiece of a telephone primarily converts sound energy into \_\_\_\_\_ a) Mechanical energy

- b) Heat energy
- c) Electrical energy
- d) Chemical energy

15. Which of the following radiations will pass through a sheet of paper? I Alpha particles  
II Beta particles  
III Gamma particles a)  
I only  
b) II  
only c)  
III only  
d) II and III only

**SECTION F**  
**CURRENT AFFAIRS**

1. The popular cold and warm spring in Ekiti State is located at a) Erinjiyan  
b) Ado  
c) Efon  
Alaaye d)  
Ikogosi
2. The capital city of Jigawa State in Nigeria is \_\_\_\_\_ a) Jalingo  
b) Ado-  
Ekiti c)  
Dutse  
d) Lafia
3. Which of the following dams is located in Nigeria? a) Akosombo Dam  
b) Ero Dam  
c) Aswan Dam  
d) Komba Dam

4. Who is the first black president of south Africa
- a) Nelson Chukwura
  - b) Nelson Mandela
  - c) Nelson Paterson
  - d) Nelson Cole
5. What is the full meaning of MEND
- a) Movement for the emancipation of Development
  - b) Movement for the Emancipation of Nigeria
  - c) Movement for the Emancipation of the Niger Delta

d) Movement for the Emancipation of  
National Development 6. Who was the president of  
the Biafran State

- a) Chukwu Emeka  
Obama b) Chukwu  
Ojukwu
- c) Chukwu Emeka  
Ojukwu d) Chukwu  
Merije

7. Who is the current Prime  
Minister of Britain? a) David  
Campbell  
b) David Cole  
c) David  
Cameron d)  
David  
Jonathan

8. Nigeria was amalgamated in  
\_\_\_\_\_ a) Nineteen-  
ten  
b) Nineteen-  
twelve c)  
Nineteen-sixty  
d) Nineteen-fourteen

9. The basic problem of our  
National Unity is a)  
Sentiment  
b)  
Aparthy  
c)  
Diversity  
d)

## Ethnicity

10. Who is the current  
chairman of INEC a)

Mr. Segun Oni

b) Mr. Ope

Bamidele c)

Prof. Charles

Ukeje d) Prof.

Atahiru Jega

**SIXTH YEAR**  
**SCHOOL OF NURSING ENTRANCE**  
**EXAMINATION**

**Time Allowed: 1 Hour**

- **Do not** open your question booklets until you are told to do so.
- The examination consists of six sections labeled A to F. all the questions irrespective of the sections carry equal mark.
- Section A- English language 20 questions • Section B- mathematics 20 questions
- Section C- Biology 20 questions
- Section D- Chemistry 15 questions • Section E- Physics 15 questions
- Section F- Current Affairs 10 questions • Answer all questions appropriately
- Use the answer sheet provided
- Use HB pencil to shade the correct answer for each question. Ensure that any shading made in error is thoroughly erased.
- Write your **NAME, EXAMINATION NUMBER** and other

needed information in the appropriate spaces on the answer sheet. Shade carefully the space with the same number or letter as each digit or letter.

- Any **candidate caught cheating** in the course of the examination will be duly penalized. • The **interview date** will be made known to the public as soon as possible.

**SECTION A**  
**ENGLISH LANGUAGE**

In the passage below, the numbered gaps indicate missing words. Against each number in the list below the passage five choices are given in columns lettered A-E for each question. Choose the word that is most suitable to fill the numbered gaps in the passage.

**PASSAGE:**

Cheap cameras are [1] for most purposes, but they have certain [2]. If you try to take [3] with them the picture looks [4] , and good results are only possible if the high good. On the other hand, clearer cameras are more difficult to [5] and are therefore not suitable for the [6]

The film used by most cameras is wound inside a sealed [7] Every time you press the [8] of the camera in order to take a picture, a small length of film [nine] .when the whole film of, say, twenty-four shots has been used, it is removed from the camera and given to a specialist to be [10]

**A****B****C****D****E**

1.	Relevant	Adequate	Equivalent	Eligible	Standard
2.	Restrictions	Minorities	Limitation	Rudiment	Limitation
3.	Approach	Close-ups	Upshots	Intakes	Microfilm
4.	Blunt	Blurred	Bleary	Shady	Slurred
5.	Operate	Operation	Function	Execute	Finger
6.	Recruit	Innovator	Pioneer	Novice	Pedant

7.	Reel	Drum	Cassette	Holder	Magazine
8.	Shutter	Trigger	Winder	Stop	Starter release
8.	Revealed	Refracted	Focused	Projected	Exposed
10.	Proceeded	Fixed	Impressed	Processed	Project

***Choose from alternative A-E the word that is closest in meaning to the words underlined.***

11. He left his home village to live a more licentious life in the big city a) Free  
b) Immoral  
c) Gay  
d) Highly paid e) Expensive

12. The child's misdemeanours were never taken seriously by his parent a) Wrong doings  
b) Period of sickness c) mistake  
d) rude word e) disappointment

13. the new play was a flop  
a) a failure b) very funny  
c) a success d) a satire  
e) copied from another

14. I wrote out the telegram and handed it to very surly

clerk for checking a) Lazy

b) Haughty

c) Bad-

tempered d)

Of senior

rank e)

Ignorant

15. His latest work has done much to boost his reputation as a writer a) Destroy

b)

Increase

c)

Advertise

d)

Establish

e)

Diminish

16. As he listened to my story ,his face remained inscrutable a) Hard and cruel

- b) Impossible to understand
- c) Impossible to describe
- d) Still cheerful
- e) Not affected by grief

***Choose from alternative A-E the word that best complete the sentence***

17. Fashions in dress sometime last for only a few year and in many cases are even more \_\_\_\_\_

- a) Ephemeral
- b) Incidental
- c) Fragile
- d) Versatile
- e) Evasive

18. A guest should not make \_\_\_\_\_ remarks about the food he is offered

- a) Derogatory
- b) Distracting
- c) Degenerate
- d) Deficient
- e) Defective

19. She was very much upset by the \_\_\_\_\_ gossip to which she was subjected.

- a) Inclement
- b) Avarious

c)  
Boisterous

d)  
Ominous

e)  
Malicious

20. Long after winning the election he continued to feel  
\_\_\_\_\_ towards those who opposed him

a)  
Apprehensive

b)  
Outrageous

c)  
Intimidating

d) Hateful

e) Vindictive

**SECTION B**  
**MATHEMATICS**

1. Given that  $X = 101_{\text{three}} + 23_{\text{Five}}$  Find X, leaving your answer in base two, a) 1110  
b) 10111 c) 11101 d) 111100
2. Calculate the total surface area of a cupboard which measure 12mm by 10mm by 8mm a)  $1920\text{mm}^2$   
b)  $592\text{mm}^2$  c)  $296\text{mm}^2$   
d)  $148\text{mm}^2$
3. Solve the equation;  $10 - 3y - y^2 = 0$   
a)  $Y = 2$  or

-5 b)  $Y = -$

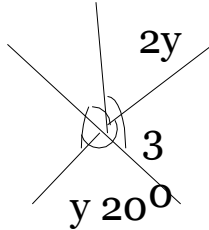
2 or 5 c)

$Y = -1$  or 10

d)  $Y = 2$  or

5

4.



What is the value of  $y$  in the diagram drawn above

a)

$10^0$

b)

$28^0$

c)

$36^0$

d)

$44^0$

5. Given that the second and fourth terms of a G.P are 8 and 32 respectively, what is the sum of the first four terms?

a)

28

b)

40

c)

48

d)

60

e)

68

6. Factorize  $2m^2$

$+ m - 5$  a)

$[2m + 5$