



**FCT SCHOOL OF NURSING AND MIDWIFERY
GWAGWALADA - ABUJA**

**COMPILED QUESTIONS FOR ENTRANCE
EXAMS**

DISCLAIMER!

These past questions comprise Biology/professional questions, Chemistry, Physics, Mathematics, English and Current Affairs. The document is made of questions from 3 years randomly selected questions. We hope this will be a guide to you on areas to focus when preparing for your exams. Kindly be informed that some of the current affairs questions have been outdated and hence we implore you to find out current answers. PLEASE NOTE THAT THIS IS ONLY PAST QUESTIONS AND HENCE YOU ARE ADVISED TO READ WIDE IN ADDITION TO THIS FOR OPTIMUM RESULT IN YOUR EXAMS.

Some questions have been answered while others require you to answer them. We wish you success in your exams.

BIOLOGY

- Which of the following is not a function of the nucleus of a cell?
 - It controls the life processes of the cell
 - It translates genetic information for the manufacture of proteins
 - It stores and carries hereditary information
 - It is a reservoir of energy for the cell
- A pair of genes that control a trait is referred to as
 - Recessive
 - dominant
 - allele
 - a hybrid
- The outer layer of the kidney where the Bowman's capsules are found the...
 - Pelvis
 - cortex
 - pyramid
 - medulla
- In the male reproductive system of a mammal sperm is stored in the
 - Vas deferens
 - urethra
 - Epididymis
 - Seminiferous
- The primary structure responsible for pumping blood for circulation through the mammalian circulatory system is
 - Vein
 - right auricle
 - arteries
 - left ventricle
- The blood component that has the greatest affinity for oxygen is the
 - Lymphocyte
 - Leucocytes
 - Erythrocytes
 - Thrombocyte
- The blood component responsible for clotting is
 - Lymphocyte
 - Erythrocyte
 - Thrombocytes
 - Leucocytes
- The collection of cells is
 - An organ
 - A system
 - A tissue
 - A gland
- The collection of tissue is called;
 - An organ
 - A system
 - A tissue
 - a gland
- Which of the following structures partake in protein synthesis of the cell
 - Plasmalemma
 - Cytoplasm
 - Lysosomes
 - Ribosomes
 - vacuoles
- Cytoplasm consists of the following organelles except;
 - Golgi apparatus
 - Endoplasmic Reticulum
 - Cell membrane
 - Lysosomes
- The basic unit of the body is
 - The Brain
 - The tissue
 - The cell
 - The plasma
 - The Neuron
- The longest bone in the body is
 - Femur bone
 - Humerus bone
 - Tibia bone
 - Fibula bone
 - Radius bone
- The major characteristic of vertebrates is the presence of

- (a) Backbone (b) diaphragm (c) heterodont dentation (d) homodont dentation (e) mammary gland
15. Which of the following organelles stores food in plants?
 - a) Mitochondrion (b) Golgi body (c) Endoplasmic reticulum
 - (d) Plastid (e) Xylem
 16. Which excretory organ helps to control the water potential of the tissue fluids?
 - (a) Kidneys (b) Skin (c) Liver (d) Lungs (e) Ovary
 17. The structure of the plant responsible for the trapping of sun energy is
 - (a) Chlorophyll (b) Stomata (c) Epidemis (d) Xylem (e) Phloem
 18. The percentage composition of oxygen in the atmospheric air is
 - (a) 21% (b) 19% (c) 0.03% (d) 16% (e) 14%
 19. The following are examples of monosaccharide sugars except
 - (a) Trioses (b) pentoses (c) hexosas (d) Maltose (e) Mitoses
 20. The pulmonary vein returns blood to the left atrium
 - (a) Deoxygenated (b) Oxygenated (c) dehydrated (d)
 - hemodillated (e) hemolysed
 21. The main organ for voice production in humans is
 - (a) The mouth (b) The nasal Cavity (c) The trachea (d) The Larynx
 - (e) The throat
 22. External respiration can be defined as
 - (a) Exchange of air between the lungs and blood
 - (b) Exchange of air between the atmosphere and lungs
 - (c) Exchange of air between the blood and the tissues
 - (d) Exchange of air between the lungs and the heart
 23. The animals that eat only flesh are termed
 - (a) Omnivores (b) herbivores (c) Carnivores (d) Detnivores
 - (e) Anivores
 24. The organ responsible for gaseous exchange between the atmosphere and human body is
 - (a) (b) bladder (c) Intestine (d) Lungs (e)
 - Kidney
 25. The conditions necessary for seeds to germinate are all except one of the following
 - (a) Water (b) oxygen (c) Nitrogen (d) suitable temperature (e) None of the above

BIOLOGY

Choose the most appropriate option from the list lettered A – D to fill in the gaps in the sentences below.

- The part of brain responsible for the control of voluntary movement and interpretation of sensation is
(a) Cerebrum (b) cerebellum (c) optic lobe (d) Medulla (e) olfactory lobe
- Process of cell division can take place by
(a) Heterosis (b) Fusion (c) Mitosis (d) None of the above
- In mammals, the exchange of nutrients and metabolic products occur in the
(a) trachea (b) lymph (c) lungs (d) oesophagus
- The blood component that has the greatest affinity for oxygen is
.....
(a) Leucocytes (b) erythrocytes (c) thrombocytes (d) lymphocytes
- Absorption of oxygen into the alveoli
(b) Release of carbon IV oxide into the lungs
(c) Release of energy for the body to use
(d) Exhalation of carbon IV oxide from the lungs
- The biological factor that is unique to each individual is the
(a) DNA (b) eye colour (c) blood group (d) RNA
- After a meal of yam has been digested, the highest concentration of glucose is found in the
(a) Hepatic artery (b) pulmonary vein (c) Hepatic portal vein (d) posterior vena cava
- Anaerobic respiration differs from aerobic respiration by the production of
(a) Less amount of energy and water
(b) Great amount of energy and alcohol
(c) Less amount of energy and alcohol
(d) Greater amount of energy and water
- The axial skeleton is composed of
(a) Skull and vertebral column (b) limbs and girdles (c) atlas and axis (d) Radius and ulna
- The theory of Natural selection was formulated by
.....
(a) Louis Pastuer (b) Robert Hook (c) Jean Lamarch (d) Charles Darwin
- The human skin is regarded as a sense organ because
it.....
(a) Separates the body from the outside world

- (b) Protects the body from the outside world
 - (c) Regulates the water content of the body
 - (d) Has nerve endings
11. Predators are beneficial in pest control because they
 - (a) Are natural enemies of small animals (b) devour farm animals
 12. Muscles are attached to bones by means of
 - (a) Ligament (b) connective tissue (c) synovia membrane (d) tendon
 13. Which mammalian tooth is structurally adapted for tearing flesh
 - (a) Molar (b) incisors (c) premolar (d) canine
 14. Which of the following organism is not classified as a animal
 - (a) Amoeba (b) paramecium (c) Euglena (d) Obelia
 15. Vertebrae bones are
 - (a) Long bones (b) irregular bones (c) flat bones (d) short bone

Questions 21 – 25 Write the correct answer in the answer sheet provided

16. The collection of cells is called
 -
17. Plant cells have while animal cells lack it
18. A constituent of the exhaust gases of motor vehicles which causes serious air pollution is.....
19. Amoeba moves by means of
 -
20. The carrier of the hereditary characteristics in plant and animal is the
 -

BIOLOGY

1. An homoeothermic animal kept in a room where the temperature is lower than the body temperature may loss heat by four physical processes. Which of the following processes is not connected with body temperature regulation?
 - a) Radiation (b) Evaporation (c) Conduction (d) Convection
2. Which of these food chain is not possible in a forest
 - a) Diatom → fly → toad → snake
 - b) Fly → toad → snake → Hawk
 - c) Leaves → goat → man → Lion
 - d) Leaves → Caterpillar → bird → Lion
3. A married couple have 10 children and they are all girls

Which of the following is the correct explanation?

- (a) The woman is incapable of producing male children
 - (b) The man's sperms are very weak
 - (c) The 'Y' component of the man's sex chromosomes was always involved.
4. The Mammalian organ through which nourishment and oxygen diffuse into a developing embryo is called
- (a) Amnion (b) Chorion (c) umbilical cord (d) placenta
5. In spirogyra, the pyrenoid
- (a) Excretes waste products (b) is suspended by cytoplasmic strands
 - (c) Makes the plant slimy to touch (d) usually contains starch
6. If calcium is deficient in food, this may cause
- (a) Anaemia (b) Retarded growth (c) Goitre (d) Beri-beri
7. Which of these diseases CANNOT be prevented by immunization?
- (a) Onchocerciasis (b) Tuberculosis (c) Cholera (d) poliomyelitis
8. Which of these is spread by insect vectors
- (a) Cholera, taenia and gonorrhoea
 - (b) Poliomyelitis, tuberculosis and syphilis
 - (c) Cholera, Malaria and tuberculosis
 - (d) Malaria, cholera and river blindness
9. The response shown by the tips of the root and shoot of a plant to the stimulus of gravity is
- (a) Haptotropism (b) Geotropism (c) Hydrotropism (d) Phototropism
10. A circulatory system that does not allow mixing of oxygenated and de-oxygenated blood in Mammalian heart is referred to as:
- (a) Open (b) hemocoelic (c) single (d) closed
11. Which of the following is characteristic of the animal cell?
- (a) Presence of large vacuoles (b) possession of a cellulose cell wall
 - (c) Absence of large vacuoles (d) presence of a chloroplast
12. Which of these products obtained from analysing sweat from the skin is not an excretory product?
- (a) Water (b) salt (c) dust (d) urea
13. Which of the following is not a function of the liver
- (a) Regulation of blood sugar (b) storage of iron (c) formation of the bile (d) breakdown of excess amino acids
14. Which of these substances is likely to be deficient in the diet of a person having goitre
15. Which of these parts of the mammalian ear is directly concerned with sense of balance? (a) Cochlea (b) Eustachian (c) Ear drum (d) semi circular canals
16. The axial skeleton of a mammal does not include the bones of the
- (a) Skull (b) Rib (c) limbs (d) Neck
17. A blue-green alga is not a prokaryote because

- (a) It is aquatic (b) its cells are prokaryotic (c) it cannot move (d) It is not a green plant
18. Chewing the cud is an adaptation peculiar to
(a) Herbivores (b) Omnivores (c) rodents (d) Ruminants
19. A pair of genes that control a trait is referred to as
(a) Recessive (b) dominant (c) A hybrid (d) an allele
20. Neurones that receive stimuli from the body or internal organs are called.....
(a) Sensory neurones (b) Efferent neurones (c) Motor neurones (d) Relay neurones

SECTION B FILL IN THE BLANK SPACES WITH THE APPROPRIATE WORDS

21. The organ situated in the pericardial cavity of a mammal is the
22. In the mammalian respiratory system, exchange of gases occurs in the
23. The digestive enzyme that coagulates proteins in milk is
24. Vitamin.....play an important role in blood clotting
25. Which class of food substance will produce a brick red colour when warmed with benedicts solution

PROFESSIONAL QUESTIONS

Choose the correct options to question 1 – 6

1. The most important aspect of hand washing is..
(a) Time (b) Soap (c) water (d) friction
2. Body Mass index (B.M.I) of 30.0 – 34.9 is regarded
(a) Overweight (b) class I obesity (c) class II obesity (d) class III obesity
3. Agglutination occurs in blood transfusion when
a) The donor and the recipient belong to the same blood group
b) Some antibodies from donor and recipient fused together
c) Donor and the recipient belong to different races
d) Recipient is not a universal recipient
4. Which of the following substances from the Mother's blood diffuses through the placenta into the blood vessels of the foetus?
(a) Carbondioxide and oxygen (b) glycogen and starch
(b) Urea and carbondioxide (d) glucose and oxygen
5. The process of deamination is essential for.....
(a) Digestion of protein (b) secretion of bile (c) formation of urine
(d) formation of antibody
1. Vaccination is carried out to
- (a) Check the production of poison
(b) Increase the activity of white blood cells

- (c) Increase the number of red blood cells
- (d) Stimulate the production of antibody

Write the correct answer in the answer sheet provided

2. The five transparent membrane that line the eyelids and front of the eye ball are called.....
3. is the formal documentation of the management plan for day to day expenses and revenue, expressed in monetary terms
4. Nursing is defined by the act of utilizing the environment of the client to assist him in his recovery
5. New growth are classified into two which are:
(i).....(ii).....
6. refers to the relationship of the fetal head and extrimites of the rest of the fetal body.
7. In singleton pregnancy, the fundus reaches the umbilicus atto.....weeks and the xiphisternum at weeks
8. The barrier between the maternal and fetal blood is.....
9. are cranial joints and are formed where two bones adjoin
10. The fetal diameter from below the occipital protuberance to the centre of the frontal suture is called and measures centimeters.
11. is defined as involuntary loss of products of the conception prior to 36 weeks gestation
12. Tuberculosis is caused by.....
13. is the procedure that involves transabdominal insertion of a fine needle into the amniotic fluid cavity under continuous ultra sound guidance.
14. The umbilical cord is otherwise known as the

Write the correct answer in the answer sheet provided

15. Puerperium is the period of physical and phychological recuperation the mother enters into after childbirth
True/False
16. During normal labour, the upper uterine segment systematically contracts and retracts resulting in sudden shortening of the muscles as labour progresses.
True/False
17. Inflammation of the breast can be referred to as laotation
True/False
18. Apnea is a leaking, drooling and tonic posturing movement of the limbs.
True/False

19. Cephal haemaloma is not an effusion of blood under the periosteum that covers the skull bone
True/False

CHEMISTRY

- Which of the following statements about electric bonding is not
(a) There is sharing of electrons
(b) An atom must possess a lone pair of electrons
(c) Each participating atom contributes one electron
(d) It can be formed between molecules
- What term is used to describe an oxide whose aqueous solution turns blue litmus paper red
(a) Strong electrolyte (b) Acid anhydride (c) Amphoteric oxide (d) Basic oxide
- The reaction of vegetable oil with a solution of wood ash is
(a) Saponification (b) Neutralization (c) hydrogenation (d) Esterification
- What are the two gases associated with acid rain.
(a) CO_2 and HCl (b) CO_2 and H_2 (c) SO_2 and NO_2 (d) HCl and SO_2
- The gas given off when NH_4Cl is heated with an alkali is
(a) H_2 (b) Cl_2 (c) N_2 (d) NH_3
- Which of the following decreases when a given mass of gas is compressed to half its initial volume?
(a) Average molecular distance (b) Frequency of collisions (c) Number of molecules present (d) Atomic radius of each particle
- Weak acid is one which
(a) Is not corrosive (b) slightly ionized in water (c) does not produce salts with alkalis (d) does not conduct electric current in solution
- Which of the following enzymes is associated with alcohol formation
(a) Zymase (b) enterokinase (c) peptides (d) sucrose
- The volume of a gas is 76cm^3 at 27°C and 800mm mercury pressure. What is the volume at s.t.p?
(a) 36.2cm^2 (b) 60cm^3 (c) 72.8cm^2 (d) 100cm^3
- An indicator methyl arranged in acidic form is
(a) Pink (b) yellow (c) purple (d) blue

CHEMISTRY

Choose the correct answer from the options provided below

1. A catalyst increase the rate of chemical reaction by
(a) Decreasing the temperature of the reaction
(b) Decreasing the activation energy of the reaction
(c) Increasing the surface area of the reactants
(d) Decreasing the surface area of the product
2. Which of the following is not a metal?
(a) Sodium (b) Iron (c) Calcium (d) Carbon Monoxide

Write the correct answer in the answer sheet provided

3. When a substance changes directly from a solid state to gaseous state without forming a liquid, the substance is said to be.....
4. The substance mainly responsible for the depletion of ozone layer is.....

Write the correct answer in the answer sheet provided

5. The energy change that accompanies the addition of an electron to an isolated gaseous atom is termed ELECTRONEGATIVITY
TRUE / FALSE

CHEMISTRY

1. Brass is an alloy containing copper and
(a) Zinc (b) Tin (c) Aluminium (d) Lead
2. Local black soap is made by boiling palm oil with liquid extract of ash. The function of the ash is to provide the.....
(a) Acid (b) Ester of alkanolic acid (c) Alkanol (d) Alkali
3. The removal of oxygen from a substance is known as.....
(a) Oxidation process (b) Electrolysis (c) Reduction process (d) Oxidation – reduction
4. The ideal gas equation (General gas law) is mathematically derived from
(a) Charles's (b) Boyle's (c) Graham's law of diffusion (d) Boyle's law and Charles's law
5. The phenomenon whereby atoms of same element have different mass numbers but same atomic numbers is called
(a) Relative atomic mass (b) Relative mass of atoms (c) Isotopes (d) Atomic number of relativity
6. Which of the following materials is classified as a non-biodegradable pollutant? (a) Animal hide (b) paper (c) plastic (d) wood

7. During electrolysis, the At the cathode
 - (a) Anion is oxidized
 - (b) Anion loses electrons
 - (c) Cation is oxidized
 - (d) cation is discharged
8. Find the number of moles of chloride ions present in 50cm³ of 0.200mol/dm³ calcium chloride
 - (a) 0.001
 - (b) 0.01
 - (c) 0.02
 - (d) 01.10
9. The rate of a chemical reaction is increased by the following EXCEPT
 - (a) The addition of catalyst
 - (b) An increase in temperature
 - (c) An increase in surface area of the reaction
 - (d) A decrease in the concentration of the reactants

PHYSICS

1. Which of the following phenomena causes capillarity of the liquid in tubes of narrow hole
 - a) Viscosity
 - (b) surface tension
 - (c) osmosis
 - (d) Brownian motion
2. Which of the following cannot be explained using the rectilinear propagation of light?
 - (a) Production of image by pin hole camera
 - (b) Production of real image of the object by lenses
 - (c) Formation of an annular eclipse
 - (d) Diffraction pattern of light
3. An object is said to undergo oscillatory motion when it moves
 - (a) In an erratic manner
 - (b) to and fro about a fixed point
 - (c) Is a circular path
 - (d) a long continuous path from the starting point
4. Fusions is usually used for generating electric power because
 - (a) No energy is released when fusion takes place
 - (b) Very high temperatures are required to initiate fusion
 - (c) The raw materials needed are not readily available
 - (d) It generates electric power
5. Which of the following factors does not affect the capacitance of a parallel plate capacitor?
 - (a) Area of the plates
 - (b) Nature of the surface of the plate
 - (c) Distance of separation between the plates
 - (d) Natural of the insulating material between the plate
6. Which of the following single machines is a second class lever?
 - (a) Wheel barrow
 - (b) crowbar
 - (c) claw hammer
 - (d) seesaw
7. Which of the following substances is not an insulator?

- (a) Aluminium (b) Glass (c) Cork (d) Plastic
8. The image of any real object formed by a diverging lens is always
 (a) Inverted (b) magnified (c) erect (d) real
9. Which of the following statement about pressure is not correct?
 (a) Increases with an increase in surface area
 (b) Decreases with an increase in surface area
 (c) Increases with a decrease in surface area
 (d) Increases with an increase in the force applied
10. Which of the following physical processes cannot be explained by the molecular theory of matter?
 (a) Evaporation (b) Thermal conduction (c) Radiation of heat (d) none of the above.

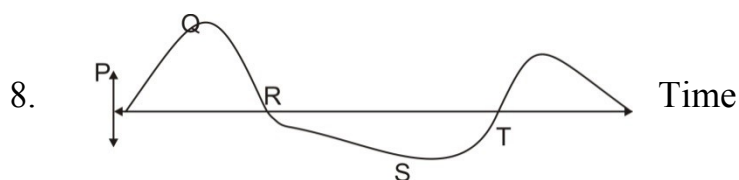
PHYSICS

1. A body is moved through a distance 500m by a force of 20N. if the power developed is 0.4kw. calculate the time for which the force acts.
 (a) 25.0s (b) 2.5s (c) 0.5s (d) 250s
2. Which of the following best explains why a person suffers a more severe
 (a) Steam is at higher temperature than water
 (b) Steam possesses greater heat energy per unit more than boiling water
 (c) Steam spreads more easily over a wider area of the skin than boiling water
 (d) Steam penetrates more deeply into the skin than boiling water
3. The principle of operation of an induction coil is based on
 (a) Ohm's Law (b) Amperes Law (c) Faraday's Law (d) coulomb's Law
4. Which of the following instruments is not suitable for measuring current?
 (a) Ammeter (b) Voltammeter (c) Millimetre (d) Microammeter
5. When a body is performing simple harmonic motion, its acceleration
 (a) Is constant
 (b) varies with displacement from equilibrium position
 (c) Is zero (d) Moves irregularly with time

PHYSICS

1. Which of the following properties of waves is exclusion to transverse wave
 (a) Reflection (b) Interference (c) Diffraction (d) Polarization
2. The sound heard by a person after the reflection of the sound generated by him is called
 (a) Resonance (b) Echo (c) Audibility (d) Reverberation

3. When a body is slightly titled, it is found that its centre of gravity is slightly raised. What is the state of equilibrium of the body?
 (a) Stable (b) Unstable (c) Neutral (d) cannot be determined
4. Which of the following surface will radiate heat energy best
 (a) Red surface (b) Yellow surface (c) black surface (d) white surface
5. Shadows of eclipse results from the
 a) Refraction of light (b) rectilinear propagation of light (c) defraction of light (d) reflection of light
6. The rising of liquid in an open ended glass tube of narrow bore is
 (a) Osmosis (b) surface tension (c) capulilarity (d) adhesion
7. The volume of a given mass of a gas 27.0 and 600mmhg is 76cm³. Calculate the colume at S.T.P
 (a) 100.0cm³ (b) 72.8cm³ (c) 60.0cm³ (d) 36.4m³



- The diagram above illustrates wave form. Which of the points on the wave form are in a phase
 (a) P and R (b) R and T (c) P and T (d) O and S
9. determines the direction of motion of current carrying conductor placed within the opposite pole of a magnet
 (a) Fleming's left hand rule (b) fleminge's right hand rule
 10. The volume of a gas increases steadily as the temperature decreases at constant pressure. The gas obeys
 (a) Pressure law (Charles' Law (c) Graham's law (d) Boyle's law

MATHEMATICS

1. Simplify $2\frac{8}{4} + 3\frac{2}{5} - 1\frac{2}{5}$
 (a) $4\frac{29}{60}$ (b) $4\frac{1}{2}$ (c) $8\frac{29}{30}$ (d) $8\frac{1}{2}$
2. Find the greatest of $\frac{5}{6}\frac{1}{5}$, $\frac{2}{7}\frac{1}{2}$ and $\frac{11}{2}\frac{1}{4}$
 (a) $\frac{5}{6}\frac{1}{3}$ (b) $\frac{11}{2}\frac{1}{4}$ (c) $\frac{2}{7}\frac{1}{6}$ (d) $\frac{2}{7}\frac{1}{6}$
3. Convert $\frac{8}{4}$ to decimal
 (a) 0.5 (b) 0.75 (c) 07.5 (d) 75.5
4. Evaluate $\frac{1\frac{1}{4} + 1\frac{1}{2}}{5\frac{1}{8} - 3\frac{8}{4}}$
 (a) 1 (b) 3 (c) 4 (d) 2

5. A firm produced 3500 articles last year, but this year it produced 297 articles. Find the percentage decrease in production
 (a) 20% (b) 10% (c) 25% (d) 15%
6. Evaluate $\sqrt{32} + 3\sqrt{8}$
 (a) $10\sqrt{2}$ (b) $10\sqrt{20}$ (c) $10\sqrt{0.2}$ (d) $10\sqrt{4}$
7. Find the principal which amounts to N2736 in $3\frac{1}{2}$ years at 4% simple interest
 (a) N2400 (b) 2450 (c) 240 (d) none of the above
8. Two angles are said to be complimentary if their sum is
 (a) 360° (b) 180° (c) 90° (d) 60°
9. The sum of opposite angles of a cyclic quadrilateral is
 (a) 90° (b) 180° (c) 360° (d) 120°
10. If 15% of the patients in a hospital of 400 are under 18yrs of age, adults are there
 (a) 250 adults (b) 600 adults (c) 430 adults (d) 340

MATHEMATICS

Choose the most appropriate option from the list lettered A – D

20. Three boys shared some oranges. The first received $\frac{1}{3}$ of the oranges and the second received $\frac{2}{3}$ of the remainder the third boy received the remaining 12 oranges, how many oranges did they share?
 (a) 60 (b) 54 (c) 48 (d) 42
21. A sector of a circle has an area of 55cm^2 . If the radius of the circle is 10cm calculate the angle of the sector.
 (a) 0 (b) 1 (c) 2 (d) 3
22. A cooperative society charges an interest of $5\frac{1}{2}\%$ on any amount borrowed by its members. If a member borrows N126,000 how much does he pay back after 1 year.
 (a) N136,875 (b) N131,875 (c) N128,750 (d) N126,250
23. If the simple interest on a sum of money at 3% per annum for $2\frac{1}{2}$ year is N123 find the principal
 (a) N670.50 (b) N820 (c) N1,640 (d) N4,940
24. A train travels 60km in M minutes. If its average speed is 400km per hour, find the value of M
 (a) 15 (b) 12 (c) 10 (d) 9

MATHEMATICS

- Convert 7.45 to fraction reduced to the lowest term
(a) $7^9/20$ (b) $3^1/20$ (c) $9^7/20$ (d) $4^{149}/20$
- Divide 27.42 by 0.0032
(a) 586.8 (b) 270.7 (c) 756.8 (c) 856.8
- Calculate the total surface area of a cone of height 12cm and base radius 5cm. Take $\pi = 22/7$
a) $180^3/7\text{cm}^2$ (b) $240^2/7\text{cm}^2$ (c) $282^2/7\text{cm}^2$ (d) $235^5/7\text{cm}^2$
- A Chord of length 30cm is 8cm away from the centre of the circle. What is the radius of the circle?
a) 16cm (b) 17cm (c) 18cm (d) 20cm
- To achieve on schedule, a train is to cover a distance of 60km at 2km/hr. if it starts 10mins late, at what speed must it move to arrive on schedule?
a) 60km/h (b) 80 km/h (c) 90 km/h (d) 108 km/h
- A co-operative society charges an interest of $5\frac{1}{2}\%$ per annum on any amount borrowed by its members. If a member borrows N125,000 how much does he pay back after 1 year.
a) N136.875 (b) N131.875 (c) N128.760 (d) N126.250
- For the set numbers 2, 3, 5, 7, 7, 8
a) The median is greater than the mode
b) The mean is greater than the mode
c) The mean is greater than the median
d) The mean is less than the median.
- A house wife bought 3 kilograms of garri at N13,000 per kg. she deposited N160.00 for half cow and bought 24 oranges at 10k each. She came back home with N20.60. she therefore left home with.....
a) N220.00 (b) 222.00 (c) 201.40 (d) 202.00
- The time to do a piece of work is inversely proportional to the number of men employed. If it takes 4 men to do a piece of work in 5 days, how long will it take 25 men? A) 15 days (b) 12 days (c) 5 days (d) 9 days
- Simplify $\left(\frac{-}{\#} - \frac{\&}{\cdot}\right) + \left(\frac{(\cdot}{\cdot} + \frac{\&}{*} + \frac{+}{*}\right)$

ENGLISH LANGUAGE

SECTION A; ESSAY

INSTRUCTIONS: THIS QUESTION IS COMPULSORY

1. Write an article for publication in one of the national dailies on the “Problems facing Education in Nigeria”. Your essay should not exceed 450 words.

SECTION B

COMPREHENSION

Okonkwo’s Resolution

Okonkwo ruled his household with a heavy hand. His wives especially the youngest, lives in perpetual fear of his fiery temper, and so did his little children; Perhaps down in his heart Okonkwo was not a cruel man but his whole life was dominated by the fear of failure and of weakness. It was deeper and more intimate than the fear of evil and capricious gods and of magic, the fear of the forest, and forces of nature, malevolent, red in tooth and claw. Okonkwo’s fear was greater than these. It was fear of himself, lest he should be found to resemble his father. Even as a little boy he had resented his father’s failure and weakness, and even now still remembered how he suffered when a playmate had told him that his father was agbala. That was how Okonkwo first came to know that ‘agbala’ was not only another name for a woman, it could also mean a man who had taken no title. And so Okonkwo was ruled by one passion – to hate everything his father Unoka had loved. One of those things was gentleness and another was idleness. From Chinua Achebe. Things Fall Apart. Heineman, 1958, PP. 9 – 10.

Now, answer the following questions by choosing the correct option:

1. “Okonkwo ruled his household with a heavy hand” means that:
 - a) He ruled his household with love and kindness
 - b) He ruled his household with a fat hand
 - c) He ruled his household with harshness
 - d) His rule was popular in his household
2. Okonkwo was feared most by his
 - a) Oldest wife and children
 - b) Youngest wife and children
 - c) Neighbours and their children
3. Okonkwo’s whole life was dominated by
 - (a) Love
 - (b) fear
 - (c) kindness
 - (d) bravery

4. Which of the following fears dominated Okonkwo's life
 - a) Fear of evil and capricious gods
 - b) Fear of magic and forest
 - c) Fear of the forces of nature
 - d) Fear of failure and weakness
5. Okonkwo hated his father because his father was
 - (a) Cruel (b) unsuccessful in life and weak (c) a talkative person
 - (d) a coward
6. What brought a lot of suffering on Okonkwo as a child?
 - a) His father's poverty
 - b) (b) his father's cowardice
 - c) His father's weakness and his social standing
 - d) All of the above

SECTION C.

Choose the word or group of words that best completes each of the following sentences.

7. If Mr. Okafor had come in time, he met the chairman
 - a) Will have (b) would have (c) may have (d) should have
8. A student.....be dismissed for such an offence in those days
 - a) May (b) will (c) would (d) can
9. The man is no longer in that office, he transferred
 - a) Will be (b) has been (c) have been (d) had been
10. The detectivesmade a thorough investigation to unravel the mystery of the death of the journalist.
 - a) Can have (b) will have (c) must have (d) shall have
11. The ceremony began eight hours ago, so the inviteeshave gone now
 - (a) Need (b) had to (c) have to (d) ought to
12. Ngozi wants to learn how.....a dress
 - (a) To sow (b) to sew (c) To sewing (d) To soon
13. Mr. Adeon a new book
 - a) is warking (b) is walking (c) is working (d) is working
14. It heavily yesterday

- (a) Reigned (b) reined (c) rains (d) rained
15. My father me to be of good behaviour two weeks ago
 (a) adviced (b) advised (c) advices (d) advises

ENGLISH LANGUAGE

SECTION A: OBJECTIVE ITEMS

Choose the most appropriate option from the list lettered A – D

1. The pen you have just picked up is
 (a) Charle's (b) Charles' (c) Charless (d) Charles
2. Measles..... impossible to manage these days
 (a) is (b) are (c) were (d) was
3. If the boys arrived early enough, the match.....
 (a) Would have been played (b) will be played (c) will have to be played (d) would be played
4. She usually works hard but She could be very lazy
 (a) at times (b)atimes (c) attimes (d) at-times
5. I now realize i her before
 (a) Had met (b) have met(c) met (meet)

In questions 6 – 10, choose the option nearest in meaning to the underlined.

6. Can you give a good explanation of your behaviour?
 (a) Account for (b) call (c) clear up (d) make up
7. In their desire to impress their friends and relatives, many young workers Bit off more than they can chew in terms of financial obligations.
 (a) Have more money than sense
 (b) Eat more than they can digest properly
 (c) Spend too much money on food
 (d) Take on more responsibility than they can afford
8. Once I have finished all my homework, I am permitted to watch television
 (a) I can watch television at any time
 (b) I can only watch television after doing my homework

- (c) Television comes first, then homework second
 (d) I can only finish my homework after permission to watch television
9. All efforts made to settle the quarrel futile
 (a) Successful (b) wicked (c) reason able (d) fruitless
10. The long straight trunk of the tree is ideal for round wood uses like railway sleeper, rafters and fence posts.
 (a) Perfect (b) most suitable (c) best (d) most unsuitable

In questions 11 – 15, choose the option opposite in meaning to the word(s)/ phrase in italic.

11. A tentative solution was provided
 (a) A definitive (b) A provisional (c) An amicable (d) A convincing
12. The notice reads “*no cash transactions in this hall*”
 (a) Gainful (b) cheque (c) money (d) business
13. In our last play, Segun acted the *hero*
 (a) Assassin (b) Villain (c) devil (d) Criminal
14. No *sooner* had he arrived than it started to rain
 (a) Simultaneously (b) seldom (c) just before (d) long before
15. The little boy has become quite *chubby*
 (a) Intelligent (b) tall (c) thin (d) huge

ENGLISH LANGUAGE

(Fill in the gap)

1. His good humour made us him
 a) liking b) to like c) like d) to be liking
2. My father lives modestly but he has all he requires
 a) what b) that c) which d) as
3. you watch the experiment closely, you will see some bubbles in the water.
 a) Unless b) if c) whether d) although

4. Which of these two pop songs isrecent
 - a) Most b) too c)enough d)more
5. Most Nigerian towns allocate.....For industrial development
 - a) A land b) lands c) some lands d) more
6. Good students are always readymore
 - a) For b) over c) of d) at e) with
7. Mrs. Bamidele was worried because Fatimahhave arrived before then.
 - a) Will b) should c)ought d)can e)was
8. I..... see that you do not know what I mean
 - a) Should b) have c)am d)can e)will
9. Since he had no money, he.....not pay my school fees
 - a) Would b) ought c)should d)may e))could
10. You will catch cold.....you wear warm, sensible clothing.
 - a) Since b)if c)because d)unless e)as
11. Ikorodu is not far, it is only an
 - a) Hour of driving b)hour's drive c)hour by driving d)hour in driving e)hour-s drive
12. I am not attending,is my wife.
 - a)whereas b)either c) neither d)but e)since
13. I know you have been **Eaves-dropping** all along
 - a) Dropping gently b) paying attention c) watching d)listening secretly e) dropping all the leaves.

CURRENT AFFAIRS

Write the correct answer in the answer sheet provided

1. The current Minister of Health is
2. The first case of Ebola disease in Nigeria was reported on
3. Ebola disease entered Nigeria through a Liberian diplomat called.....
4. The world AIDS Day is observed on every of the year

5. The current Central Bank Governor
is.....
6. The immediate past Governor of Central Bank of Nigeria is called
.....and presently he is the
.....
7. The Church that collapsed recently in Lagos is called
.....
8. The most recent bomb blast that killed more than 150 worshipers took
place in
.....on.....
9. The female Doctor who died after attending to the Liberian Ebola victim is
called
10. The acronym PVC used by INEC stands
for.....
11. The speaker of the House of Representative who decamped from
.....party to is
called.....
12. The Minister of..... was recently declared
OPEC President

Give the full meaning of the following

13. PLWHA stands for.....
14. S.S.A.N.U stands for.....
15. SAN stands for.....
16. W.H.O stands for.....

ENGLISH LANGUAGE

SECTION A – ESSAY

Write a short story of not more than 400 words that ends with the phrase “It was a bitter experience but I learnt my lesson”.

SECTION B

Choose the most appropriate option provided to fill the gaps in the passage.
Two third of children in1....((a) industrialized (b) socialized (c) technological (d) modernized) societies no longer have family life. They are virtually abandoned to child minders from very tender age. The ...2...((a) disregard (b) indifference (c) allination (d) inattention) from the mothers bring suffering and makes it impossible for them to achieve a healthy social life. The3....((a) development (b) increase (c) appreciation (d) inflation) in the number of suicides, the rate of drug addiction and.....4..... ((a) delinquency (b) irresponsibility (c) Satanism (d) truancy) among young people may be to a large extent due to these premature separation which take place before sufficient time has ...5.... ((a) materialized (b) occurred (c) surface (d) elapsed) for attachment to develop between the child and the family.

SECTION C

For question 6 – 9 choose the options that are opposite in meaning of the underlined word.

6. The lion of Cameroun is really an indomitable team
(a) Powerful (b) prominent (c) a weak (d) a cowardly
7. There is much apathy towards reading among students nowadays
(a) Enthusiasm (b) indecision (c) disinclination (d) Indifference
8. In spite of many days of fasting, Musa is still fastidious about his food
(a) Particular (b) undecided (c) Indifferent (d) unmindful
9. Florence flogged the girl reluctantly
a) Eagerly (b) calmly (c) furiously (d) laboriously

In question 10 – 13 choose the option that is nearest in meaning to the underlined word or phrase.

10. I would not like you to do the work piecemeal
(a) At meal time (b) bit by bit (c) as a masterpiece (d) badly
11. Smiling broadly, she explained why she always took exception to being referred as his wife
(a) Felt specially honoured (b) liked nothing except (c) objected to (d) preferred very much
12. The testimony of the witness absolved the accused of the charges
(a) Condemned (b) Implicated (c) blamed (d) cleared
13. The minister announced that the government would soon make a law to prohibit the showing of obscene films

(a) Violent (b) dangerous (c) Immoral (d) frightful.

From the words lettered A – D, choose the word that contains the sound represented by the given phonetic symbol.

14. /dz/ (a) just (b) ghost (c) dose (d) dozen
15. /el/ (a) aisle (b) eat (c) wait (d) dirt

CURRENT AFFAIRS

- The word WHO means
 - World Hall Organization
 - World Health Organization
 - Wealth Health Organisation
 - World Human Organization
- Food Basket of the Nation represents which of the following states
 - Lagos state
 - Benue State
 - Bendel state
 - Edo state
- The World's smallest continent is
 - Africa
 - Ethiopia
 - Cairo
 - New-York City
- The immediate past Minister of FCT is
 - Dr. Adamu Aleiro
 - Dr. Aliyu Modibbo Umar
 - Senator Bala Muhammed
 - Ibrahim Bunu
- The acronym ECOWAS stands for:
 - E
 - C
 - O
 - W
 - A
 - S
- The coldest place in the world is
 - England
 - Jos
 - Vostok Antarctica
 - South Africa
- What is the full meaning of VAT?
 - Value Applied tax
 - Value Adopted test
 - Value Added test
 - Value added tax
- The immediate past secretary of FCTA Health and Human Services Secretariat is
 - Dr. Princess Precious Kalamba Gbeneol
 - Dr. Promise Precious Kalamba Gbeneol
 - Dr. Precious Kalamba Gbeneol
 - Dr. Patricia Kalamba Gbeneol
- What does ICT stand for
 - Information and Communication Technology
 - Information and Communication Training
 - Introduction to communication teaching
 - Introduction to communication Technology
- Who is the chairman of INEC?

- (a) Professor Humphry Nwosu (b) Professor Maurice Iwu (c) Professor Attahiru Jega (d) Professor Mahmoud Yakub
13. When is the global hand washing day?
 - (a) 15th October (b) 12th October (c) 11th October (d) 10th October
 14. What was the theme of the pet project by the First Lady of Nigeria, Mrs. Patience Dame Jonathan
 - (a) Women for Movement initiative
 - (b) Women for moving in the Right initiative
 - (c) Women in the Right Initiative
 - (d) Women for change initiative
 15. Who is the current WHO Director General?
 - (a) Professor Greese Mao (b) Dr. Margaret Chan (c) Dr. Richard Adamson (d) Dr. Jane Tilo
 16. When is the world's sight day?
 - (a) 1st November (b) 10th May (c) 12th April
 17. What does NDLEA stand for?
 - (a) National Drug Law Enforcement Agency
 - (b) National Drugs Law Empowerment Agency
 - (c) National Drug Law Equipment Agency
 - (d) National Day for Law Enquiry Agency
 18. Who is the new Head of Civil Service of the Federal
 - a) Mr. Stephen Orasanya (b) Mr. Afolabi Oladapo (c) Mrs. Winifred Oyo Ita (d) Ms B. Pepple
 19. Who is the coach of the Super Eagles?
 - (a) Mr. Adamu shaibu (b) Mr. Samson Siasia (c) Mr. Gernot Rohr (d) Mr. Christian Chukwu
 20. When is the World Habital Day?
 - (a) 4th October (b) 6th January (c) 2nd December (d) 8th May

CURRENT AFFAIRS

FILL IN THE BLANK SPACES WITH THE CORRECT ANSWERS

1. Nigeria had her Centenary celebration in the year
2. The white colour in Nigerian flag signifies.....
3. The current Minister of Education is

4. The current Deputy Senate President is
5. Polio case was recently found in... State in Nigeria
6.number of Chibok girls were recently rescued by the Nigerian army
7. Which state has the slogan “God’s own state”
8. Nigeria’s Minister of Health is.....
9. Which country’s flag is called the Union Jack.....
10. The world’s AIDS day is on.....
11. The last United state election was held on.....
12. The chairman of African Union is.....
13. ECOWAS is made up of countries
14. E.U is made up ofcountries?
15. Which railway was commissioned recently in Nigeria
16. The theme of the campaign launched by President Mohammedu Buhari in 2019 is

In question 13 – 15, write the full meaning of the abbreviations

17. IDP.....
18. NJC.....
19. CCTV.....
20. NANNM.....
21. NEMA.....

MATHEMATICS

1. Find the radius of a sphere whose surface area is 154^2
 - a) 7.00 cm
 - b) 3.50 cm**
 - c) 3.00 cm
 - d) 1.75 cm

2. If $x + y = 90$ simplify $(\sin x + \sin y)^2 - 2\sin x \sin y$
 - a) 11
 - b) 2
 - c) -1
 - d) 4

3. Find the total surface area of a cylinder of base radius 5cm and length 7cm ($\pi = 3.14$)

- a) 17.8cm^2
- b) 15.8cm^2
- c) 75.4cm^2
- d) 54.7cm^2

4. If **M** represents the median and **D** the mode of the measurements 59358 then **M.D** is _____

- a) (6.5)
- b) (5.8)
- c) (5.7)
- d) (5.5)**

5. What is the value of **3** in the number **42.7531**?

- a) 3/10000**
- b) 3/1000
- c) 3/100
- d) 1/10

6. If $x^2 + kx + 169$ is a perfect square find the value of x

- a) 83**
- b) 73
- c) 53
- d) 23

7. The mean age of R men in a club is 50 years Two men aged 55 and 63 left the club and the mean age reduced by 1 year. Find the value of R _____

- a) 18
- b) 20**
- c) 22
- d) 28

8. A casting is made up of Copper and Zinc. If 65% of the casting is Zinc and there are 147g of Copper. What is the mass of the casting?

- a) 320g
- b) 420g**
- c) 520g
- d) 620g

PHYSICS

9. The small droplet of water that forms on the grass in the early hours of the morning is ____
- a) hail
 - b) dew**
 - c) fog
 - d) mist
10. Transistors are used for the _____
- a) rectification of signals
 - b) conversion of a.c to d.c
 - c) amplification of signals**
 - d) conversion of d.c to a.c
11. If a simple pendulum makes 50 oscillations in one minute what is its period of oscillation? a) 0.02s
- b) 0.20s
 - c) 0.83s
 - d) 1.20s**
12. Which of the following is used for the correction of short sightedness?
- a) convex lens
 - b) concave lens**
 - c) convex mirror
 - d) concave mirror
13. A cell of e.m.f. 1.5V is connected in series with a resistor of resistance 3.0Ω . A voltmeter connected across the cell registers 0.9V. Calculate the internal resistance of the cell
- a) 2.0Ω**
 - b) 3.0Ω
 - c) 5.0Ω
 - d) 6.0Ω
14. One special advantage of alcohol over mercury as a thermometric liquid is its
- a) low density
 - b) low freezing point**
 - c) high specific
 - d) low boiling point

15. In a hydraulic press a force of 40N is applied to the smaller piston of area 10cm^2 . If the area of the larger piston is 200cm^2 calculate the force obtained
- a) **800N**
 - b) 500N
 - c) 80N
 - d) 50N
16. As a bicycle Tyre was being pumped up it was noticed that contrary to Boyle's law the volume increased as the pressure increased. The best explanation of this is that Boyle's law is only true for _____
- a) **ideal gases**
 - b) a fixed mass of gas
 - c) a mixture of gases
 - d) a gas at variable temperature
17. A student measures the volume of a liquid using a measuring cylinder. What else needs to be measured by the student in order to determine the density of the liquid?
- a) depth of the liquid in the cylinder
 - b) mass of the cylinder
 - c) **mass of the liquid**
 - d) temperature of the liquid
18. The ability of the eye to focus object at different distances is called _____
- a) power
 - b) **accomodation**
 - c) normal vision
 - d) persistence of vision

CHEMISTRY

19. Water molecules are held together by _____
- a) Covalent bond
 - b) **Hydrogen bond**
 - c) Ionic forces
 - d) Van der waals
20. A solid substance with higher melting and boiling points is likely to be a/an _____
- a) Covalent compound

- b) Dative covalent compound
- c) **Electrovalent compound**

d) Non-metal

21. The mass spectrometer can be used to measure the mass of_____

- a) **An atom**
- b) An electron
- c) A proton
- d) A neutron

22. The following properties are characteristics of transition elements

EXCEPT _____

- a) Formation of complex ions
- b) **Fixed oxidation state**
- c) Formation of coloured compounds
- d) Catalytic ability

23. An element with the electron configuration of $1S^{2} 2S^{2} 2P^{6}$ would have a combining power of

- _____
- a) 2
 - b) 6
 - c) 8
 - d) **0**

24. A metal M forms two types of chloride MCl_2 and MCl_3 which of the following laws best explains the relationship between the chlorides? Law of

- _____
- a) Conservation of mass
 - b) Definite proportion
 - c) **Multiple proportion**
 - d) Reciprocal proportion

25. The purity of a solid sample can best be determined by its _____

- a) Boiling point
- b) Melting point
- c) **Conductivity**
- d) Solubility

26. During electrolysis, the reaction at anode is _____

- a) **Oxidation**
- b) Reduction

- c) Decomposition
- d) None of the above

27. Which of the following best defines a compound?

- a) **Combination of two or more elements**
- b) Combination of one or two element
- c) Combination of elements and mixtures
- d) None of the above

28. Fog is a solution of _____ CHEMISTRY101.000.00

- a) Liquid in gas
- b) **Gas in liquid**
- c) Solid in gas
- d) Gas in gas

ENGLISH LANGUAGE

Choose the word that is OPPOSITE in meaning to the underlined word

29. Rather than show remorse for his offence he remained _____

- a) **Unrepentant**
- b) Abrasive
- c) Apathetic
- d) Unpleasant

30. There is much apathy towards reading among student nowadays.

- a) Indecision
- b) **Enthusiasm**
- c) Indifference
- d) Disinclination

31. The chairman is recuperating.

- a) Avaricious
- b) Thrifty
- c) Treacherous
- d) **Deteriorating**

32. I prefer the exact rather than an _____ figure.

- a) Elusive
- b) **Appropriate**

- c) **Approximate**
- d) Inflated

Choose the option that BEST COMPLETES the following sentence

33. Mary's _____ of the accident is very different from yours.
- a) Summary
 - b) Account**
 - c) Statement
 - d) Outline
34. Our teacher defined _____ in his introduction.
- a) Onometopeia
 - b) Onomatopaeia
 - c) Onomatopoeia**
 - d) Onomatopeia
35. The teacher found it difficult to read Hassan's work so the teacher advised him to make it_____.
- a) Legible**
 - b) Easier
 - c) Large
 - d) Eligible
36. Neither Jack nor Jill_____there yesterday
- a) Are
 - b) Were
 - c) Is
 - d) Was**
37. The car owner does not think about the _____of his vehicle and the other payments involved in owning it
- a) Depreciation**
 - b) Appreciation
 - c) Calculation
 - d) Association
38. Be careful. This is too serious a matter to be played _____
- a) On
 - b) Up

- c) **With**
- d) At

Choose the option that is NEAREST IN MEANING to the underlined word

39. It's always better to buy durable products.

- a) Authentic
- b) Permanent
- c) **Lasting**
- d) Expensive

40. The luminous hands of the clock attracted the baby

- a) **Bright**
- b) Colorful
- c) Glaring
- d) Beautiful

41. He did all he could to fortify the building against attack

- a) Defend
- b) **Secure**
- c) Shield
- d) Support

42. The Minister announced that the government would soon make a law to prohibit the showing of obscene films.

- a) Violent
- b) Dangerous
- c) **Immoral**
- d) Frightful

Choose the option that BEST CONVEYS THE MEANING of the underlined portion in the following sentence

43. The bill has to wait as we are now insolvent

- a) Overworked
- b) Bankrupt
- c) Unsettled
- d) Insoluble

44. If Uche had ever been told the result he wouldn't have been happy. This means that

- a) **Uche did not know the result**
- b) Uche was not happy about the result
- c) Uche would have expected to be told the result
- d) Uche was happy when he heard about the result

45. All his plans fell through

- a) **Failed**
- b) Were accomplished
- c) Had to be reviewed
- d) Were rejected

46. He spoke with his heart in his mouth

- a) Courageously
- b) With such unusual cowardice
- c) With a lot of confusion in his speech
- d) **With fright and agitation**

47. . There is some obvious symmetry in the whole presentation.

- a) Confusion
- b) Hesitation
- c) Excitement
- d) **Orderliness**

48. . If my father had not arrived I would have starved. This sentence means _____

- a) **My father did arrive and I didn't starve**
- b) I had to starve because my father didn't come
- c) My father didn't arrive and I didn't starve
- d) I should have starved but I didn't

49. . I was not a little embarrassed by his action. This means that _____

- a) I was not embarrassed at all
- b) **I was highly embarrassed.**
- c) I was slightly embarrassed.
- d) I was embarrassed.

Choose the option that has the SAME CONSONANT as the one represented by the letters underlined

50. Coughh

a) Though

- b) Thoroughly
- c) **Trophy**
- d) Of

51. gear
- a) **Leg**
 - b) Large
 - c) Badge
 - d) Jeer

52. refine
- a) **Phantom**
 - b) Review
 - c) Vote
 - d) Pipe

Choose the MOST APPROPRIATE STRESS PATTERN from the options below

53. Stupidity
- a) **Stu-PI-di-ty**
 - b) STU-pi-di-ty
 - c) Stu-pi-DI-ty
 - d) Stu-pi-di-ty

CURRENTA AFFAIRS

54. AU stands for _____
- a) America Union
 - b) **African Union**
 - c) African Unit
 - d) None of the above

55. AIDS stands for _____
- a) Association of Infections Disease Society
 - b) **Acquired Immune Deficiency Syndrome**
 - c) Acquired Immunity and Diet Society
 - d) Acquired Immunity Department and Station

56. ECOWAS means _____
- a) Economic Community for West Atlas Society
 - b) **Economic Community in World Administration Society**

c) Economic Community of West African States

d) Economic Committee of West African Society

57. **EFCC** means_____

- a) Economic and Finance Criminals Court
- b) Economic and Financial Circulation Commission
- c) Economic and Financial Crimes Commission**
- d) Economic and Financial Commission Cooperation

58. **ICPC** means_____

- a) Independent Corruption Prevention Commission
- b) Independent Corrupt Protection Commission
- c) Independent Corrupt Practices and Crimes
- d) Independent Corrupt Practices and Others Related Offences Commission**

59. The present Central Bank Governor is_____

- a) Sanusi Lamido Sanusi
- b) Chukuma Soludo
- c) Godwin Emefiele**
- d) Kemi Adeosun

60. **IMF** stands for_____

- a) Internal monies fund
- b) International Money Foundation
- c) International Monetary Fund**
- d) International Monetary fundings

61. The Slogan God's own State is for_____

- a) Enugu State
- b) Anambra State
- c) Abia State**
- d) Rivers State

62. Federal Capital of Nigeria was moved from Lagos to Abuja
in_____

- a) 1991
- b) 1992
- c) 1993
- d) 1994**

63. Which of these countries is an **ECOWAS** member?
- a) **Nigeria**
 - b) South Africa
 - c) Zimbabwe
 - d) Kenya
64. Who succeeded President Olusegun Obasanjo?
- a) Alh Shehu Shagari
 - b) Alh Namadi Sambo
 - c) Goodluck Jonathan
 - d) **Alh. Umaru Musa Yaradua**
65. Who is the current Liberian President?
- a) Dr. Helen Seleun
 - b) Mr. Samuel Duo
 - c) Charles Taylor
 - d) **Mr. George Weah**
66. The eagle on the Nigerian Coat of Arm represents__
- a) People
 - b) **Power**
 - c) Unity
 - d) Peace.
67. Chibok town is located in _____ State of Nigeria.
- a) Adamawa
 - b) Bauchi
 - c) **Borno**
 - d) Gombe.
68. How many African countries went to the 2018 FIFA world cup in Russia.
- a) **5**
 - b) 4
 - c) 6
 - d) 32

69. Which of the following does sperm NOT travel through?

a) **ureter**

- b) urethra
- c) vas deferens
- d) epididymus

70. The following processes are involved in water movement in the endodermis EXCEPT

- a) osmosis
- b) vacuolar pathway
- c) diffusion**
- d) active transport

71. A layer of dead skin cells is found in the _____

- a) subcutaneous tissue
- b) dermis
- c) epidermis**
- d) no dead cells are in the skin

72. In evolution analogous structures are significant because they show _____

- a) physiological diversity**
- b) functional diversity
- c) genetic diversity
- d) structural diversity

73. The branch of Biology that deals with the principles of classification of organisms is known as ____

- a) biological index
- b) nomenclature
- c) taxonomy**
- d) ecology

74. Which of the following structures is a tissue?

- a) Vessel element
- b) Blood**
- c) Sieve tube element
- d) Erythrocyte

75. Which of the following cells are not regarded as specialized?

- a) Sperm cells
- b) Root up cells

- c) Muscle cells
- d) Somatic cells**

76. Which of the following animals exhibits territoriality?

- a) Rabbit.
- b) Earthworm.
- c) Lizard**
- d) Toad

77. Cells that utilise a lot of energy are characterized by the presence of a large number of

- _____
- a) vacuoles.
 - b) mitochondria**
 - c) endoplasmic reticulum
 - d) ribosomes

78. Inhaled air is made warm and moist in the _____

- a) epiglottis.
- b) nasal cavity
- c) trachea
- d) mouth**

79. A monocot root is different from a dicot root by having _____

- a) endodermis
- b) cambium.
- c) wide pith**
- d) root hair.

80. Siphons and gills are structures in aquatic organisms used for _____

- a) gaseous exchange**
- b) buoyancy
- c) excretion
- d) movement

81. The contrasting pair of genes affecting a trait and located at the same position on homologous chromosomes is referred to as _____

- a) chromatids
- b) mutants
- c) alleles**

d) chromatin

82. The organelle involved in the transport of substances within a cell is _____

- a) **Golgi body**
- b) endoplasmic reticulum
- c) ribosome
- d) mitochondrion

83. The malpighian body of the mammalian kidney is made up of _____

- a) cortex and medulla
- b) Bowman's capsule and loop of Henle
- c) **glomerulus and bowman's capsule**
- d) pelvis and pyramid

84. The smallest branches on the cell body of a neurone are called _____

- a) **dendrites**
- b) dendrons
- c) ganglia
- d) Schwann cells

85. Which of the following vertebrae provide articulating surfaces for the ribs?

- a) **Thoracic**
- b) Lumbar
- c) Cervical
- d) Sacral

86. Which of the following inherited conditions usually shows incomplete dominance?

- a) Sickle cell anaemia
- b) Haemophilia
- c) Tongue rolling ability
- d) **Baldness**

87. The exchange of gases between the environment and the respiratory organ of vertebrates is referred to as ____

- a) inhalation
- b) respiration
- c) expiration
- d) **breathing**

88. The function of the villi in the alimentary canal is to _____

- a) secrete gastric juice
- b) Curdle milk
- c) emulsify fat
- d) increase the surface area for absorption**

89. Myelin sheaths are found _____

- a) surrounding tendons
- b) covering the brain
- c) covering muscles
- d) around axons of neurons**

90. In which cerebral lobes is the speech center located?

- a) frontal**
- b) parietal
- c) temporal
- d) occipital

91. Light initiates different types of cellular reactions. Which of the following responses to light converts the energy from light into a gain of potential energy?

- a) Phototaxis
- b) Photoperiodism
- c) Photosynthesis
- d) All of the above**

92. Sickle cell anemia and Huntington's chorea are both _____

- a) virus-related diseases
- b) bacteria-related diseases
- c) congenital disorders**
- d) none of the above

93. Which of the following statements is **TRUE** of insulin? It is _____

- a) secreted by the pancreas
- b) a protein
- c) involved in the metabolism of glucose
- d) all of the above**

94. Fertilization of the ovum by the sperm usually occurs in the _____

- a) oviduct**

- b) vagina
- c) uterus
- d) ovary

95. Melatonin is produced by the _____

- a) skin
- b) pineal gland**
- c) liver
- d) pituitary gland

96. Digestion of PROTEINS begins in which of the following human organs?

- a) small intestines
- b) colon
- c) mouth
- d) stomach**

97. All of the following are similarities between unicellular organisms and multicellular organisms EXCEPT

- a) internal complexity**
- b) division of labour
- c) size
- d) ecological relationships

98. Air pollution can be reduced by the following methods except EXCEPT _____

- a) building tall factory chimneys
- b) passing waste gases through filters and absorbers
- c) using lead-free petrol in car
- d) recycling tins cans and bottles**

BIOLOGY

Water fleas, wood lice and barnacles belong to the group

- a. insecta
- b. chilopoda
- c. crustacea**
- d. arachnida

Which of the following organisms does not exist as a single free living cell?

- a. volvox**
- b. amoeba
- c. chlamydomonas
- d. paramecium

An association between the root nodule of a leguminous plant and *Rhizobium* sp. is known as

- a. parasitism
- b. symbiosis**
- c. commensalism
- d. mycorrhiza

Which of the following groups is the most advanced?

- a. Thallophytes
- b. Pteridophytes
- c. Gymnosperms**
- d. Bryophytes

The mode of feeding in *Amoeba* and *Hydra* is

- a. autotrophic
- b. heterotrophic**
- c. symbiotic
- d. holophytic

Viviparity occurs mainly in the C

- a. aves
- b. amphibians
- c. mammals**
- d. reptiles

Most monocots are easily recognized by their

- a. long and sword-like leaves**
- b. long and palm-like leaves
- c. short leaves with petioles
- d. short leaves with petioles

Amphibians are normally found

- a. in water
- b. on moist land
- c. in water and moist land**
- d. on dry land and in water

The jointed structure in insects that bears organs which are sensitive to touch, smell and vibration is the

- a. antenna**
- b. abdomen
- c. maxilla
- d. labium

The veins of the leaf are formed by the

- a. spongy mesophyll

- b. palisade tissue
- c. cambium cells
- d. vascular bundles**

When specimen X is mixed with few drops of iodine solution, the appearance of a blue-black colour confirms X is

- a. sucrose
- b. glucose
- c. starch**
- d. galactose

The enzyme invertase will hydrolyze sucrose to give

- a. mannose and galactose
- b. glucose and fructose**
- c. maltose and glucose
- d. glycerol and fatty acid

Salts and water are absorbed in the roots and transported to the leaves by

- a. osmosis through the phloem tissues
- b. diffusion through the phloem tissues
- c. osmosis through the xylem tissues**
- d. diffusion through the xylem tissues

The transportation of oxygen and carbon (IV) oxide in mammals is carried out by

- a. phagocytes
- b. leucocytes
- c. erythrocytes**
- d. thrombocytes

The gas produced during tissues respiration can be identified by using

- a. sodium hydroxide
- b. calcium carbonate
- c. copper sulphate
- d. calcium hydroxide**

When yeast respire anaerobically it converts simple sugars to carbon (IV) oxide and

- a. acid
- b. water
- c. oxygen
- d. alcohol.**

Urea formation occurs in the

- a. liver**
- b. kidney
- c. heart
- d. lung

A seedling grown in the dark is likely to be

- a. sturdy
- b. stunted
- c. dormant
- d. **etiolated**

The center for learning and memory in the human brain is the

- a. olfactory lobe
- b. **cerebrum**
- c. medulla oblongata
- d. cerebellum

The physical space occupied by an organism together with its functional role in the community can be described as

- a. **niche**
- b. environment
- c. habitat
- d. biom

The hygrometer is used for measuring

- a. rainfall
- b. **relative humidity**
- c. salinity
- d. specific gravity

The highest percentage of energy in an ecosystem occurs at level of the

- a. **producers**
- b. primary consumers
- c. secondary consumers
- d. decomposer

Carbon (IV) oxide content of the atmosphere is least affected by

- a. burning of fossil fuel
- b. cutting down and clearing of forests
- c. **plant and animal respiration**
- d. forest fires

A freshwater pond may contain

- a. pond skater, water lily, shark and mosquito larva
- b. water lily, fish water scorpion and dragonfly larva
- c. tad pole, water boatman, leeches and crab
- d. water beetle, shrimps, water snail and water bug

The epiphytic habitat can best be described as

- a. aquatic

- b. terrestrial
- c. **arboreal**
- d. estuarine

The distribution of plants in a rain forest is governed mainly by

- a. rainfall pattern
- b. vegetation
- c. soil types
- d. **amount of sunlight**

The greatest influence on a stable ecosystem in nature is exerted by

- a. rainfall
- b. animals
- c. **man**
- d. pollution

The factor the least affects food shortage in sub-saharan Africa is

- a. drought
- b. flooding
- c. pests
- d. **mixed – cropping**

In man, the ability to roll the tongue is a variation classified as

- a. structural
- b. morphological
- c. anatomical
- d. **physiological.**

Which of the following statements is true of blood groups and blood transfusion?

- a. Group A can donate to group A only
- b. Group B can donate to group B only
- c. Group O is the universal recipient
- d. **Group AB is the universal recipient**