

UNIVERSITY OF CALABAR

POST UTME PAST QUESTIONS FOR SCIENCE

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2005/2006 POST UTME QUESTIONS

TIME ALLOWED: 1 HOUR

BIOLOGY

- 1. All living organisms
- A. photosynthesize
- B. respire
- C. move
- D. feed

2. In which of these associations is much harm done to one of the partners?A. symbiosis

- B. epiphytism
- C. commensalism
- D. parasitism
- 3. A cotton bulb stores its food in the
- A. stem
- B. leaves
- C. roots
- D. cotyledon

4. The character producing factors in living organisms are

- A. chromosomes
- B. alleles
- C. chromatids
- D. genes
- 5. Exo skeleton is not found in the
- A. maggot
- B. mosquito larva
- C. earthworm
- D. caterpillar
- 6. Blood clothing is initiated by
- A. leucocytes
- B. platelets
- C. haemolymph
- D. haemoglobin

7. How many nuclei are found in a pollen tube during fertilization?

- A. 2
- B. 3
- C. 5
- D. 7

8. Denitrifying bacteria in the nature liberate gaseous nitrogen directly from

- A. ammonium salt
- B. soil nitrate
- C. thunderstorms
- D. plant and animal proteins
- 9. Leaching is

A. washing away of humus from the soil surface

B. reduction of soil aeration by pressure

C. soil erosion by means other than rainfall

D. washing out of chalk and limestone from upper layers of soil by heavy rains

10. The lumber vertebra when compared with thoracic vertebra has a

- A. longer neutral spine
- B. wider neutral spine
- C. thinker centrum
- D. shorter transverse process
- 11. Hydra removes unwanted food by
- A. passing it through the anus
- B. passing it through the amount
- C. meant of a contractile vacuole
- D. egesting it through the body surface

12. Which of the following characteristics is common to amoeba and paramecium

- A. oral groove B. trichocyte
- C. contractile vacuole
- D. cilia

13. The most recently evolved structure in animal is the

- A. feather
- B. cilium
- C. scale
- D. Hair

14. The legs and beak of an egret resemble those of the heron because they

- A. occupy similar niche
- B. are both birds
- C. both feed on fishes
- D. occupy the trophic level

15. Which of the following is an adaptation of forest speciesA. few stomata

B. thick bark

C. reduced leaves

D. buttress roots

16. A certain savanna grasshopper changes colour from green during raining season to black during the dry season and black after the dry season bush fires. The reason for these colour changes is that the

- A. grasshopper is getting older
- B. grasshopper is avoiding predation
- C. environmental temperature is changing
- D. grasshopper is frequently moulting

17. A tall plant crossed with a dwarf one produces offspring of which half are tall and half are dwarf, what are the genotype of the parents?

- A. TT, TT
- B. Tt, tt
- C. TT, tt
- D. Tt, Tt

18. The hydrometer is used for measuring

- A. relative humidity
- B. specific gravity
- C. rainfall
- D. salinity

19. The function of the fluid-filled

pericardium is to

A. supply the heart with oxygen and nutrients

B. reduce intensity of the pumping action of the heart

C. reduce the friction caused by the

pumping movement of the heart

D. prevent disease organisms from attacking the heart

20. When a peacock display its colourful features, it is

- A. courting a female
- B. ready to fight
- C. protecting itself from predators
- D. protecting its mate from predators.

USE OF ENGLISH:

INSTRUCTION: Shade the correct answer in the box provided on the answer sheet

SECTON A:

INSTRUCTION: Choose the option that best explains the information conveyed in the sentence.

1. The government warns that drink-driving is punishable under the law

- A. a drunkard driving can be punished
- B. driving while drunk is an offence
- C. driving while drinking is an offence
- D. drinking and driving is an offence.

2. The investigators stated clearly that they had reached a dead end in their scrutiny of suspects in the murder case

A. the investigators did not know what to do with the suspects' murder

B. the investigators had evidence to sentience the suspects to death in the endC. there was no further progress in the investigation of the murder suspectsD. the end had come for the suspects in the murder case.

3. Adamu's father is a key figure in that ministry

A. the ministry trusts adamu's father as a central figure

B. adamu's father is a figurehead in the ministry

C. adamu's father's position is essential in the ministry

D. adamu's father keeps the key to the ministry

- 4. The conference is biennial
- A. the conference is held twice two years

B. the conference is held once every other year

- C. the conference is held once four years
- D. the conference lasts for two years.
- 5. Bassey is as hard as nails
- A. Bassey is very strong
- B. Bassey is very brave
- C. Bassey is determined
- D. Bassey is unsympathetic

6. Ene Henshaw's death is monumental lose

- to the literary word
- A. Ene Henshaw is a monument

B. Ene Henshaw's death will have grave consequences to creative writing

C. Ene Henshaw's death is a loss to the world

D. Ene Henshaw's death is a literary fact.

SECTION B:

INSTRUCTION: Choose the option opposite in meeting the word(S) phrase in italics

- 7. Only those who are *gullible* fall victim to his trickery
- A. saucy
- B. devastated
- C. courteous
- D. Astute
- 8. He is well known inordinate ambition
- A. excessive
- B. passionate
- C. moderate
- D. sound
- 9. Students could be timid
- A. friendly
- B. bold
- C. covetous
- D. pugnacious

10. The witness decided to *conceal* the evidence

- A. divulge
- B. hide
- C. destroy
- D. pugnacious

11. The members of the congregation were *inspired* by the sermon

- A. bewitched
- B. enthralled
- C. disenchanted
- D. disoriented
- 12. Agbenu was ecstatic about her result
- A. disappointed
- B. sad
- C. pessimistic
- D. mad

13. The labour leader's *recalcitrant* stance was applauded

- A. stubborn
- B. flexible
- C. uncompromising
- D. well-informed

14. A cool bath in a hot weather can be truly *invigorating*A. devastatingB. unpalatable

- C. debilitating
- C. deplicating
- D. disgusting

- 15. I am *loath* to do assignment
- A. willing
- B. unwilling
- C. waiting
- D. dying

SECTION C:

INSTRUCTIONS: Fill each gap with the appropriate option from the list provided

16. _____told of his impending arrival, I worked hard to make his short stay very comfortable
A. have being
B. having been

- C. having being
- D. have been
- D. nave been

17. The weather is probably _____appealing for people who live in Jos _____for foreigners A. no less/than

- A. no less/th B. more/as
- D. more/as
- C. as much/as D. at least as/but
 - 8 To triad to all momeny of h

18. To tried to_____all memory of his dead father

- A. recall
- B. obliterate
- C. eulogize
- D. obstruct

19. Is imposing edifice_____a fortune to build A. had costed

- B. costed
- C. cost
- D. have cost

20. One quarters of the hostels____have been painted and three quarters of the students moved in

- A. has/has
- B. have/has
- C. have/have
- D. has/have.

PHYSICS

1. Which of the following represents the correct precision if the length of a piece of wire is measured with a meter rule A. 34.0mm

B. 35.0mm A. 15N C. 35.00mm B. 20N D. 35.01mm C. 35N D. 45N 2. If the refractive index of glass is 1.5, $(g = 10 \text{ms}^{-2})$ what is the critical angle at the air-glass interface? 9. One of the features of the fission process A. sin-1 $\sqrt{2}$ is that B. sin-2/3 A. its products are not radioactive C. sin-3/4 B. it leads to chain reaction C. neutrons are not released 3. An a.c circuit of e.m.f 12v has a resistor D. the sum of the masses of the reactants of resistance 8 ohms connected in series to equals the sum of the masses of the an inductor of inductive resistance 16Ω and products a capacitor of inductive 10Ω . The current flow in the circuit is 10. Total internal reflection occurs when A. 1.4A light moves from B. 1.2A A. air to water C. 12.0A B. water to glass D. 14.0A C. a dense medium to a less dense medium D. a less dense medium to a dense medium 4. An object of mass 400g and density 600kgm⁻³ is suspended with a string so that 11. The main reason for making cover of a half of its immersed in paraffin of density vacuum flask airtight is to prevent heat lose 900kgm⁻³, the tension in the string is bv A. 1.0N A. conduction B. evaporation B. 3N C. 4.0N C. radiation D. 0.N D. convection 5. The thermometric property of the 12. Which of the following quantities are thermocouple is that, it's scalar A. e.m.f changes with temperature I. Electrical potential B. resistance changes with temperature II. Torque C. volume changes with temperature III. Momentum D. pressure changes with resistance IV. Kinetic energy 6. Which of the following is the exclusive A. II and III only. property of a transverse wave? B. I and II only A. diffraction C. III and IV only B. refraction D. I and IV only C. compression D. polarization 13. Which of the following media allow the transmission of sound wave through the 7. If the maximum voltage across a 100-I. air ohms resistance is 20V, then the maximum II. Liquid power can dissipate is III. Solids A. 5.00W B. 4.00W A. I and II only C. 2.00W B. I and III only D. 0.25W C. II and III only D. I, II, and III 8. A body of mass 2kg moving vertically upwards has its velocity increased uniformly 14. The colour seen in soup bubbles are due from 10m/s in 4s. neglecting air resistance, to

A. interference B. dispersion

calculate the upward vertically force acting

on the body

C. diffraction

D. refraction

15. A transistor is used in the amplification of signals because it

- A. allows doping
- B. contains electron and hole carrier
- C. consumes a lot of powers
- D. controls the follow of current

16. The property that is propagated in a travelling wave is

- A. amplitude
- B. energy
- C. wavelength
- D. frequency

17. An empty 60ltr petrol tank has a mass 0f 10kg. its mass when full of fuel of relative density 0.72kgm

- A. 7.2kg
- B. 33.2kg
- C. 43.2kg
- D. 53.2kg

18. A patient with a sight defect has a least distance of distinct vision of 150cm for him to be able to read material placed at a distance of 25cm, what is the focal length of the glasses he should wear?

A. 15.0cm

- B. 17.6cm
- C. 21.4cm
- D. 30.0cm

19. Energy losses through eddy currents are reduced by using

- A. insulted soft iron and wire
- B. low resistance wires
- C. few turns of wire

20. The particle when $_{18}^{8}$ K decays to $_{18}^{8}$ K

- A. beta
- B. alpha
- C. gamma
- D. electron.

ANSWERS TO 2005/2006 QUESTIONS

BIOLOGY:

1. C 2. B 3. D 4. A 5. C 6. B 7. A 8. B 9. B

10. C 11. D 12. D 13. D 14. A 15. B 16. C

17. D 18. A 19. D 20. A

USE OF ENGLISH

SECTION A:

1. C 2. C 3. B 4. D 5. D 6. B

SECTION B:

7. C 8. C 9. B 10. A 11. C 12. B 13. B 14. C

15. A

SECTION C:

16. B 17. A 18. A 19. C 20. C

PHYSICS

1. D 2. B 3. – 4. B 5. A 6. C 7. B 8. – 9. D 10. C 11. A 12. D 13. D 14. B 15. B 16. D 17. – 18. C 19. A 20. C

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2006/2007 UNICAL POST UTME QUESTIONS

PHYSICS

1. A particle in circular motion performs 30 oscillations in 6 seconds, its angular velocity is _____

- A. 10n radS⁻¹
- B. 5n radS⁻¹
- C. 6 radS⁻¹
- D. 5 radS⁻¹

2. If the total force acting on a particle is zero, the linear momentum will

- A. increase then decrease
- B. be constant
- C. increase
- D. decrease

3. Water is a poor thermometric liquid because it using a cylindrical lens?

- A. astigmatism
- B. presbyopia
- C. chromatic aberration
- D. myopia

4. Thermal equilibrium between two objects exists when

A. the heat capacities of both objects are the same

B. one object losses heat continuously to the other

C. the temperature of both objects are equal D. the quantity of heat in both objects is the same

5. An electric iron is rated 1000W, 230V. what is the resistance of its element?

- A. 57.6Q
- B. 55.9Q
- C. 52.9Q
- D. 51.9Q

6. The particle that is responsible for nuclear fission in a nuclear reactor is

- A. electron
- B. photon
- C. neutron
- D. proton

7. The ray which causes gas molecules to glow is known as A. molecular ray

- B. gamma ray
- C. anode ray
- D. cathode ray

8. The resistance of a piece of wire length 20m and cross-sectional area 8 X 10^{-6} is

- A. 1.0 ohms
- B. 10.0 ohms
- C. 0.50 ohms
- D. 5.0 ohms

9. Satellite communication network makes use of

- A. infra-red ray
- B. sound wave
- C. visible light
- D. radio wave

10. If two inductors of inductances 3H and 6H are arranged in series, the total inductance is A. 18.0H

- B. 9.0H
- C. 2.0H
- D. 0.5H

11. Which of the following is a set of vectors

- A. force, mass and moment
- B. acceleration, velocity and moment
- C. mass, weight and density
- D. mass, volume and density

12. Two points on a velocity time graph have a co-ordinate (5s, 10m/s) and (20s, 20m/s), calculate the mean acceleration between the two points

- A. 0.67ms⁻²
- B. 083ms⁻²
- C. 1.50ms⁻²
- D. 2.00ms⁻²

13. Which of the following devices are used to measure pressureI. aneroidII. BarometerIII. HydrometerIV. ManometerA. I and II only

B. II and II only C. III and IV only D. I and V only

14. When light is incident on an object which is magenta in colour, which of the following colours would be absorbed?A. red and blueB. green only

C. red and green

D. red only

15. Which of the following is a vector

A. electric charge

B. electric field

C. electric potential difference

D. electric capacitance

16. In which of the following is surface tension important?

A. the floating of ship in water

B. the floating of a dry needle in water

C. the floating of a balloon in air

D. the diffusion of sugar solution across a membrane

17. Which of the following is the most suitable for use as an alt/meter A. mercury barometer

- B. a fortin barometer
- C. a mercury manometer
- D. an aneroid barometer

18. In which of the following is surface tension important?

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B. the floating of a dry needle in water

C. the floating of a balloon in air

D. the diffusion of sugar solution across a membrane

19. Which of the following obeys Ohm's law?

A. glass

B. diode

- C. all electrolytes
- D. all metals

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- A. glass
- B. diode
- C. all electrolytes
- D. all metals

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2008/2009 BIOLOGY POST UTME QUESTIONS

1. Amoeba moves by means of A. cilia	D. hepatic portal vein E. celiac artery
B. flagella	
C. pseudopodia	8. The maize grain is regard as a fruit and
D. swimmerets	not a seed because
E. setae	A. it is covered by a sheath of leaves
	B. the Testa and fruit wall fuss after
2. Which of these tissues serves the function	fertilization
of support and water conduction	C. it has both endosperm and cotyledon
A. parenchyma	D. it has coleorhiza and coleoptile
B. collenchyma	E. the pericarp and seed coat are separate
C. sclerenchyma D. xylem	9. Grasses – grasshoppers – lizards –
E. phloem	snakes – hawks. In the food chain, the
L. pilloem	organisms which are the least in number are
3. Which of these is the terminal portion of	A. grasses
the alimentary canal of a mammal?	B. grasshoppers
A. oesophagus	C. lizards
B. stomach	D. snakes
C. rectum	E. hawks
D. colon	
E. appendix	10. Magnesium is utilized in the formation of
4 An energiene which lives on the remains	A. ATP
4. An organism which lives on the remains	B. glucose C. amino acids
of a dead plant is A.an endoparasite B. a saprophyte	D. chlorophyll
C. a commensal	E. facts
D. a symbiont	
E. an ectoparasite	11. Which of these is not true? Grasses in
	the above food chain
5. Which of the substances listed below is a	A. trap all the sun energy
trace element for plants?	B. trap a small percent of the sun energy
A. potassium	C. are primary producers
B. sodium	D. contain chlorophyll
C. copper	12. Insects show considerable powers of
D. phosphate E. nitrate	water conservation. This is due to the act
L. Intrate	that
6. The movement of molecules from a	A. the chitin is impregnated with tanned
region of higher concentration to the one of	proteins
lower concentration is?	B. nitrogenous waste is eliminated as urea
A. diffusion	C. chitin is impermeable to water
B. transpiration	D. the Malpighian tubules are impermeable
C. osmosis	to water
D. translocation	E. the cuticle is covered with wax
E. plasmolysis	12 Deat being have their erisin from
7 The blood veccel which corrise disasted	 Root hairs have their origin from endodermis
7. The blood vessel which carries digested food from the small intestine to the liver is	B. pericycle
the	C. cortex
A. renal vein	D. epidemies
B. renal artery	E. xylem
C. hepatic artery	,
· ·	

- 14. The element nitrogen is utilized in _____
- A. formation of ATP
- B. formation of glucose
- C. formation of amino acids
- D. photosynthesis
- E. none of the above

15. In most true terms, sporangia are grouped into

- A. indusum
- B. fronts
- C. prothalli
- D. sori

16. In the reproduction of mosses, water is essential because

A. they live in moist habitats

B. they cannot reproduce without water

C. the male garments must swim to fertilize the ovum

D. they produce spores

17. In tapeworm, the two structures that run throughout the length of the body are the _____

- A. nerve cord and the excretory duct
- B. sperm duct and the nerve cord
- C. genital pore and the excretory duct
- D. sperm cord and the genital pore

18. Which of the following is NOT a characteristic of snail?

- A. bilateral symmetry
- B. chitinous exoskeleton
- C. muscular root
- D soft upsagmonted bod
- D. soft unsegmented body in mantle

19. In the life history of a butterfly, destruction of crops is caused by the A. maggot

- B. nymph
- C. caterpillar
- D. pupa

20. The correct sequence of tissues in the anatomy of a young dicotyledonous stem from the inside to the outside is A. pith, phloem, cambium, xylem, collenchyma and epidermis B. xylem, phloem, cambium, cortex, endodermis, collenchyma and epidermis C. pith, xylem, cambium, phloem, collenchyma, parenchyma and epidermis D. phloem, xylem, cambium, cortex, endodermis, collenchyma and epidermis

ANSWERS ON BIOLOGY 2008/2009

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

10. B 11. E 12. B 13. A 14. D 15. B 16. C

17. C 18. B 19. C 20. C

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2008/2009 CHEMISTRY POST UTME QUESTIONS

UNIVERSITY OF CALABAR, CALABAR 2008/2009 POST UTME SCREENING

CHEMISTRY

1. If 100 cm^3 of hydrogen diffused through a porous pot in 1.0 second, how long will it take the same volume of oxygen to diffuse through the same pot under the same condition? (H = 1.0, O = 16.0)

- A. 2.5s
- B. 4.0s
- C. 16.0s
- D. 25.0s
- 2. Which of the following acids is dibasic?
- A. hydrochloric acids
- B. trioxosulphate (IV) acid
- C. dioxo nitrate (III) acid
- D. ethanoic acid

3. Bees inject acidic substance when they sting. Which of the following chemical could be used to treat bee stings A. CH_3COOH

- C. CH₅OH
- D. H₂O₂

4. Which of the following salts can be prepared by reacting the metal with dilute H_2SO_4

- A. CuSO₄
- B. MgSO
- C. BaSO₄
- D. PbSO₄
- 5. Which of the following solutions will give a dilute tertraoxosuphate (IV) acid?I. Lead (II) trioxonitrates (VI)II. Barium chloride solutionIII. Sodium chloride solution
- A. I only
- B. II only
- C. I and II only
- D. II and III only

6. Substance Q reacts with cold water to form a solution which turns red litmus blu E. Substance Q could be

A. zinc

B. phosphorus

C. lead D. sodium

7. What term is used to describe an oxide whose aqueous solution turns blue litmus red?

- A. a strong electrolyte
- B. acid anhydride
- C. amphoteric oxide
- D. basic oxide

8. Which of the following substances could be responsible for the banana taste of a food flavour

- A. methylbenzene
- B. butanol
- C. ethanol
- D. penthlethanoate

9. The reaction of vegetable oil with a solution of wood ash is

- A. saponification
- B. neutralization
- C. hydrogenation
- D. Esterification

10. What process does the following equation represent $(C_6H_{10}O)n + nH_2O --- NC_6H_{12}O_6$

- A. polymerization of glucose
- B. hydrolysis of starch
- C. fermentation of sugar
- D. dehydration of carbohydrate

11. Which of the following equimolar solutions will have the highest pH?

- A. CH₃COOONa
- B. NaOH
- C. HCL
- D. NH₄OH

12. Which of the following ions requires the largest quantity of electricity for discharge at an electrode?

- A. 4.0moles of C
- B. 3.0 moles of Na⁺
- C. 2.5moles of Cu³⁺
- D. 2.0 moles of AI^{3+}

13. Phenolphthalein in acidic solution is

- A. red
- B. orange
- C. colourless
- D. yellow

14. When iron is exposed to moisture and it rusts, the value of dG for the reaction is A. neutral

- B. zero
- C. positive
- D. negative

15. When sulphur (IV) oxide is passed into a solution of sodium hydroxide for a long time, it eventually produces a solution of A. NaHSO₄

- B. Na₂SO₃
- C. NaHSO₃
- D. Na_2SO_4

16. The decolourization of the purple colour of tetraoxomaganate (VII) ions is a test for? A. alkenes

- A. alkenes
- B. alkanols
- C. alkanals
- D. alkanes

17. Which of the following are structural isomers?

- A. propanoic acid and propan 1,2 dio
- B. propanal and propanone
- C. ethanoic acid and propanoic acid
- D. Ethan 1,2 diol and ethanoic acid

18. In the purification of impure samples of ethyl ethanoate synthesized by esterification, concentrated sodium trioxocarbonate (iv) solution is used to remove?

A. water

- B. basic impurities
- C. acid impurities
- D. ethoxyethane

19. The dissolution of common salt in water is a physical change because

- A. the salt can be obtained by crystallization
- B. the salt can be recovered by the
- evaporation of the water
- C. heat is not generated during mixing
- D. the solution will not boil at 100° c

20. Which of the following substance is a mixture?

- A. sulphur powder
- B. bronze
- C. distilled water
- D. ethanol.

ANSWERS ON CHEMISTRY 2008/2009

1. B 2. C 3. D 4. A 5. D 6. D 7. B 8. D 9. A

10. B 11. B 12. A 13. C 14. C 15. C 16. A

17. A 18. C 19. B 20. B

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2008/2009 MATHEMATICS POST UTME QUESTIONS

A. 1.2 x 10¹³ B. 1.2 x 10⁻¹⁶ 1. If $Y^{Y} = XY - Y^{2}$, evaluate $(2x + y) X (y + y) = XY - Y^{2}$ C. 1.2 x 10⁻¹⁵ 2x) A. 4xy D. 1.2 x 10⁻⁵ B. 4x² C. 0 10. Evaluate 202² base three 11222¹ base three 2. Evaluate $x^{2} + 1/x^{2}$ when $x = 1/x^{-5}$ A. 21120 B. 211121 A. 24 B. 25 C. 210110 C. 26 D. 102122 3. If (2x - 1)(2x + 3) + (2x + 1) =11. If (1/4)(2) = 1, find y $ax^{2} + bx + c$, find a, b, c A. -2 B. -1/2 A. 0, 6, 6 C. ½ B. 8, 0,0 C. 8, 0, 6 D. 2 D. 8, 8, 6 12. In the diagrams, xyz is similar to pro, /xy/ = 5cm, /xz/ = 3.5cm and /pr/ = 8cm. 4. If a = (a, b, c), b = (a, b, d, e), C = (a, b, c, d, e, e). find AUBUC find /pq/ A. (a, b, c, d, e) A. 5.6cm B. 11.2cm B. (a, b, c, d) C. 11.4cm C. (a, b, c)d D. (a, b, d, e) D. 28.0cm 5. If p - 2g + 1 = g + 3p and p - 2 = 0, find 13. What is the value of a solid cylinder of diameter 7cm and height 7cm? g A. -2 A. 38.5cm B. -1 B. 77cm³ C. 1 C. 259.5cm D. 1078cm³ D. 2 6. Evaluate log5 [5² x (25)¹ x (125)^{2/3}] 14. In the diagram, KS is a tangent of the A. -1.2 circle 24. To the circle centre 0 at R and B. -2,0 f < ROQ = 800. Find < QRSC. 1.0 A. 900 B. 800 D. 6.0 C. 500 7. Express $4^2 \times (16)^2 \times (64)^3$ in the power of D. 400 16 A. (16)^{17/3} 19. Given the sets A = (2, 4, 6, 8) and B. (16)^{7/2} B = (2, 3, 5, 9), if a number is selected at C. (16)^{1/2} random from each of the two sets, what is D. (16)7/3 the probability that their product is odd? A. 1 B. 3/4 8. Rationalize C. 1/4 A. -3 D. 0 B. 3 + 22C. 3 – 22 20. The 1st term of an A.P is equal to thrice D. -d - 22 the common different. What is the sixth term of the A.P if the common different are 9. Simplify (0.3 x 10⁹)(0.4 x 10⁷), leaving 8? your answer in standard form A. 64

B. 48 C. 43

D. 24

21. Calculate the distance between the points (a, 3) and (-a, 2) A. 2a + 1B. $4a^2 + 1$ C. $4a^2 - 1$ D. 2a - 1

22. Find the equation of the straight line which passes through the point (-2, 3) and is parallel to 7x - y - 6 = 0A. y = 7x + 17B. y = 7x - 17C. y = 7x - 17D. y = 7x + 17

23. Find the sum of the roots of the equation $2z^2 + 3x - 90$ A. -18 B. -6 C. -9/2 D. -3/2

24. Differentiate y = $(3x + 5)^{-1/2}$ A. $1/2(3x + 5)^{1/2}$ B. $1/2(3x + 5)^{-1/2}$ C. $-3/2(3x + 5)^{3/2}$ D. $2/2(3x + 5)^{-1/2}$

25. Given two function f:R --- R and g:R ---R defined by $f(x) = x^2 + 1$ and g(x) = x + 3, find the fog A. $x^2 + 6x + 10$ B. $X^2 + 4$ C. $x^2 x + 4$ D. $x^2 x + 10$

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ANSWERS ON MATHEMATICS 2008/2009

1. C 2. D 3. D 4. A 5. B 6. D 7. C 8. B 9. C

10. D 11. D 12. A 13. D 14. C 15. C 19. D

20. A 21. A 22. A 23. D 24. C

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2009/2010 USE OFENGLISH POST UTME QUESTIONS

INSTRUCTION: Attempt all questions. Time: 1 HOUR

After each of the following sentences, a list of possible interpretation of all part of the sentence is given. Choose the interpretation that you consider most appropriate for each sentence

1. For us to succeed in this task all hands must be on deck. This means that everybody

- A. should push with his hands
- B. will have to place his hands on the deck
- C. must cooperate
- D. should take a test to qualify

2. Kate was at home with all the questions asked by the examiner. This means that Kate was_____

- A. familiar with the questions
- B. went home with the questions
- C. prepared to go home with the question
- D. conceited about the question

3. Mike flies off the handle each time there is an argument. This means

- A. mike holds the door handle
- when he argues
- B. mike allows the handle to fly
- C. mike easily loses his anger
- D. mike can cope with any argument

Complete the following sentences with the right option from the words supplied after each sentence.

4. When the fire broke out in the hostel, students in rushed out in all direction

- A. crisis
- B. panic
- C. haste
- D. hurry

5. Astronomers keep a close watch of the night sky in order not to miss the appearances of some star

- A. parallel
- B. periodic
- C. regular
- D. constant

Choose the word or phrase from option A-D which has the <u>nearest meaning</u> to the underlined word or words in each sentence.

6. My mother has refused to come to live in Lagos because she prefers the <u>tranquil</u> life in the village to the hotly burly of the city A. sweet

- B. prosperous
- C. peaceful
- D. decent

7. A lorry larger than an <u>elephant</u> was struck on the bridge

- A. as large as an elephant
- B. carrying an elephant
- C. that looked like an elephant
- D. of enormous proportions

Choose the option that best completes the sentence

- 8. The dentist found that his patient's tooth-
- A. have long decayed
- B. have long been decayed
- C. have long being decayed
- D. had long decayed

9. In order to catty out the necessary examination, the dead body was

- A. extracted
- B. exhumed
- C. extradited
- E. expelled

10. He went abroad with a view_____a business partner

- A. to fund
- B. to funding
- C. to be funding
- D. to have funded

ANSWERS ON ENGLISH LANGUAGE 2009/2010

1. C 2. A 3. D 4. C 5. B 6. A 7. D 8. D 9. B

10. B

2009/2010 MATHEMATICS POST UTME QUESTIONS

1. Evaluate $\log_3 27 + 2\log_3 9 - \log_3 54$	C. 3sinx – xcosx D. xsinx – 2sin2sinx
3. Divide 100001 ₂ by 11 ₂ A. 1101 ₂ B. 1011 ₂ C. 111 ₂ D. 1001 ₂	11. The limit of $(x) = x^3 - 1 + x/x^2 + 1$ as lx = 0, then l is? A. 0 B. 1 C. 2
 4. A man borrows ₦750 and agrees to pay simple interest at 4% per annum. After 4months he pays back ₦400. Calculate the amount he still owing A. ₦300 B. ₦370 C. ₦380 D. ₦400 	D1 12. Find the value of x for which the function $f(x) = x^3 - 2x^2 - 4x$ has a maximum value A. 1 B1 C. 2/3 D2/3
5. For what values of y is the expression $z + Y/y^2 + 5y - 24$ undefined? A3 and 1 B. 2 and 1 C1 and -3 D. 3 and -8	13. Given $ab = ab - b$ and $a = (a + b);$ b = (a - b). evaluate $(a + b)(a - b)A. b(a + b)B. 2b(a - b)C. 2(a - b)D. 2(a + b)$
6. Evaluate $x^2/x^3 + 1$ when $x - \frac{1}{x} = 5$ A. 27 B. 26 C. 25 D. 24	14. Given that cos ² x + sin ² x = 1, evaluate (sinx + cosx)/(cosecx)(secx) A. 2 B. 2 C1
 7. If x varies inversely as xz and x = 4 when y = 2, y = 9 and z = 4, then x is equal to? A. 1/9 B. 3/8 C. 9 D. 2/9 	D. 1 15. The bearing of a point from another point A is 060 ^o while the bearing of C from B is 130 ^o . If C is directly east of A and the distance AB is 10m while the distance BC is 15m. what is the distance AC?
8. If 3x + 2y = 6 and 5x + 2y = 12, find x-y A. 6 B3 C. 3 D6	A. 13.72m B. 12.62m C. 11.32m D. 12.20m
 9. X-5 and x+3 are factors of x² - kx - 15. What is the value of k? A8 B5 C. 3 D6 	 17. Two parallel sides of a trapezium are 4cm and 8cm and are separated by a distance of 5cm. find the area of the trapezium A. 30cm² B. 45cm² C. 52.1cm² D. 32cm²
 10. If y = xsinx find d²y/dx A. 2cosx - xsinx B. sinx + xcosx 	19. What is the coordinate of the midpoint of a line AB given that $A = (2, 4)$ and $B = (1, -4)$

A. ¹/₂, ¹/₂ B. -¹/₂, -4 C. -¹/₂, -¹/₂ D. ¹/₂, 4

20. The line PQ ; P = (2, 4), Q = (2, 1) is divide internally in the ratio 2:1 by a point M = (2, q). find the value of q A. -5 B. 12

- C. 3
- D. 2

22. Which of the following is among a measure of dispersion

- A. mean
- B. scores
- C. variance
- D. mode

24. A coin is based so that $p(head) = \frac{1}{4}$ and $p(tail) = \frac{3}{4}$, if the coin is tossed 5 times, find the probability of obtaining no tails

A. $\frac{1}{222}$

- B. 15 2224
- C. 27
- D. 11 254

25. If the probability of winning an electron by a candidate is p/q, what is the probability of not winning the election?

- A. $\frac{2}{3}$ B. 0
- C. $\frac{3-2}{1}$

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ANSWERS ON MATHEMATICS 2009/2010

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

10. A 11. D 12. A 13. - 14. D 15. B 17. A

19. B 24. C

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2010/2011 CHEMISTRY POST UTME QUESTIONS

INSTRUCTION: Shade the correct answer in the box provided on the answer sheet	D. 13.5g E. 10.8g [Ag = 108, F = 96500Cmol ⁻¹]	
 "Equal volumes of all gasses at the same temperature and pressure contain the same number of molecules" is an expression of A. Boyle's law B. Graham's law C. Charles law D. Avogadro's law E. Gay Lussac's law 	 7. The pH of 0.01M of NaOH solution is? A. 10 B3 C. 3 D. 2 E2 8. When dH is positive, a reaction is said to 	
2. Which of the following is the anhydride of HNOs? A. NO ₂ B. NO C. N ₂ O ₂ D. N ₂ O ₅	be A. reversible B. Ionic C. endothermic D. exothermic E. covalent	
 3. Duralumin consists of aluminium, copper, and A. zinc and gold B. lead and manganese C. Nickel and silver D. manganese and magnesium E. nickel and manganese 	 9. The reactants in a blast furnace during the extraction of iron are A. sand, silica, and coke B. stone, coke and iron ore C. coke, iron ore and limewater D. silica, coke and iron ore E. iron ore, coke and limestone 	
4. $2MnO_4^+ + 10Cl^- + 16H^+ \rightarrow 2Mn_2^+ + 5Cl_2$ + $8H_2O$. Which of the substances serves as an oxidizing agent A. $10Cl^-$ B. Mn_2^- C. $5Cl$ D. MnO_4	10. What is Y in the equation? ${}^{134}_{50}Ba \rightarrow {}^{134}_{54}X + Y$ A. 0 B. n C. a D. ${}^{4}_{2}He$ E. 3	
E. H ₂ O 5. In which of the following reactions is the position of equilibrium affected by an increase in pressure? A. $2NO_{2(g)} \Leftrightarrow N_2O_{4(g)}$ B. $3H_{(g)} + N_{2(g)} \Leftrightarrow 2NH_{3(g)}$ C. $2H_{1(g)} \Leftrightarrow N_{2(g)} + H_{2(g)}$ D. $2SO_{2(g)} \Leftrightarrow 2SO_{3(g)}$ E. none of the above	 11discovered the electron? A. Milikan B. Rutherford C. J.J Thompson D. Faraday E. none of the above 12. Which of the following salts dissolve in water to give a pH of 7? A. Na₂SO₄ 	
6. The mass silver deposited when a current of 5A is passed through a solution of silver salt for 1939sec is? A. 10g B. 1.08g C. 27g	 B. CH₂COOH C. Na₂S D. Na₂CO₃ E. NaCl 13. Greenhouse effect can be reduced by controlling? A. water evaporation 	

- B. the use of artificial fertilizers
- C. the use of aerosols
- D. burning of wood and fossil fuel
- E. all of the above

15. 30cm³ of hydrogen was exposed with 10cm³ of oxygen at 100^oC. what is the total volume of the gaseous mixture?

- A. 40cm³
- B. 30cm³
- C. 10cm³
- D. 20cm³
- E. 50cm³

17. Alkanes generally undergo ______ reaction?

- A. substitution
- B. addition
- C. haemolysis
- D. isomerism
- E. homologous

18. The catalyst used in the Haber process for the manufacture of ammonia is_____ A. MaO²

- B. finely divided copper
- C. finely divided nickel
- D. platinum (II)
- E. finely divided iron

19. What volume of hydrogen is produced at stp when 3.25g of zinc reacts with excess HCl according to the equation; $Zn_{(s)} +$ $2HCl_{(aq)} \rightarrow ZnCl_{2(aq)} + H_{2(g)}$ [Zn = 65, GMV =22.4dm³ at s.t.p] A. 22.4dm³ B. 22.4cm³ C. 2.24dm³ D. 2.24cm³

E. 1.12dm³

20. An element Y forms a volatile hydride CYH³ with a vapour density of 17.0. the relative atomic mass of Y is? A. 17

- B. 34
- C. 31
- D. 14
- E. 20

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ANSWERS TO CHEMISRY 2010/2011 QUESTIONS

1. D 2. A 3. D 4. D 5. C 6. E 7. D 8. C 9. E

10. D 11. C 12. C 13. D 14. D 15. A 16. C

17. A 18. E 19. E 20. D

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2011/2012 USE OF ENGLISH POST UTME QUESTIONS

Choose the expression or word which **BEST COMPLETES** each sentence

- 1. I am intent_____continuing my course
- A. on
- B. with
- C. as
- D. to
- E. at

2. _____equations use letters to stand for numbers

- A. Silmultenous
- B. Simultanous
- C. Simultanous
- D. Simultaneous

From the options A to D, choose the expression that is <u>opposite in meaning</u> to the underlined word(s).

3. Elemi's $\underline{sagacity}$ contrasted sharply with his friend's

- A. Timidity
- B. Wisdom
- C. Fluency
- D. Foolishness

4. Some people keep <u>ferocious</u> animals as pets.

- A. Gentle
- B. Wild
- C. Fierce
- D. Domestic

From the options listed A – D select the word that best CAPTURES THE MEANING of the italicized part of the sentences

5. Every visitor to Calabar must visit where photographs and *artefacts* of early European colonial presence in Nigeria are kept.

- A. Archives
- B. Ranch
- C. Market
- D. museum

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

6. Ebire's generosity turned out to be her <u>Achilles' heel</u>

- A. Strong point
- B. Favourite habit
- C. Weak point
- D. Less popular virtue

Choose the expression or word which BEST COMPLETES each sentence

7. The giant hydro-electric project is among

the_____of colonial rule in Southern

- Africa
- A. Inheritance
- B. Remnants
- C. Legacies
- D. Evidence
- 8. Ukpabio is proficient_____tailoring
- A. With
- B. In

C. Of

D. At

Choose the word or phrase that is OPPOSITE IN MEANING to the underlined

9. The demonstration was organized by <u>hoodlums</u>

- A. Criminals
- B. Activists
- C. Thugs
- D. Soldiers

10. The plaintiff convinced the court that the murder was <u>inadvertent</u>

- A. Brutal
- B. Wicked
- C. Careless
- D. Premeditated

11. The bush burning festival will further <u>renew</u> our forest resource

- A. Increase
- B. Reduce
- C. Deplete
- D. Remove

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL Planetarium
 PLAN-e-tar-i-um
 plan-E-tar-i-um
 plan-e-TAR-i-um
 plan-e-tar-I-um

Choose from the options the word which has THE SAME SOUND as the underlined

13. COURTESY

- A. our
- B. Court
- C. Shirt
- D. Tour

From the options listed A – D select the word that best CAPTURES THE MEANING of the italicized part of the sentences.

14. Lecturers assisted Prof. Atahiru Jega when Nigerians *chose* their political leaders

- A. election
- B. nomination
- C. appointment
- D. selection
- 15. Mother always pays attention to details
- A. frivolous
- B. interesting
- C. rigid
- D. meticulous

Choose the option that BEST EXPLAINS the information conveyed in the sentences below

16. The rampage in England shows that youths react the same way under provocation

- A. youths in England are very good
- B. youths in England are miscreants
- C. youths act the same way when provoked
- D. youths provoke people in England

From the options choose the appropriate STRESS pattern. The stressed syllables are written in CAPITAL letters.

17. Intimacy A. INtimacy B. inTImacy C. intiMAcy D. INTImacy

- consideration
 CONsideration
 consideration
 consiDERation
- D. considerAtion

From the words lettered A – D choose the word that rhymes with the given word

- 19. purity A. plentiful B. security
- C. purify
- D. nonentity

From the words lettered A – D choose the word that rhymes with the given word

- 20. beautiful
- A. beautify
- B. beautification
- C. dutiful
- D. dignify

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

- 21. constitutional
- A. con-sti-tu-tion-AL
- B. con-sti-TU-tion-al
- C. CON-sti-tu-tion-al
- D. con-STI-tu-tion-al
- 22. abnormality
- A. AB-nor-ma-li-ty
- B. ab-nor-ma-li-TY
- C. ab-nor-ma-LI-ty
- D. ab-nor-MA-li-ty

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

23. The use of Latin expressions in English is now <u>dated</u>
A. well-established
B. historical
C. old-fashioned
D. popular
24. His uncle showed <u>affected</u> interest in his welfare

B. loving

A. pretended

C. genuine D. deep

From the options choose the expression that BEST COMPLETES each sentence

25. I am qualified for the job; _____?

- A. haven't I
- B. Isn't it
- C. aren't I
- D. ain't I

26. My sister along with her colleagues ______the museum today.

- A. are visiting
- B. have visited
- C. were visiting
- D. is visiting

Choose the word that has the SAME SOUND as the one represented by the underlined letter

27. man<u>sio</u>n

- A. cheap
- B. leisure
- C. peace
- D. action

28. t<u>i</u>me

- A. print
- B. might
- C. flip
- D. illegal

From the options choose the expression that BEST COMPLETES each sentence

29. Every student_____before the principal entered the hall A. has arrived B. have arrived

- C. had arrived
- D. arrived

30. The workers presented ______to the National Assembly
A. five pages document
B. five-paged document

- C. a five-paged document
- D. a five-page document

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word(s).

- 31. A <u>dogged</u> student is likely to succeed
- A. Studious
- B. Clever
- C. Curious
- D. Determined

Choose the option that best explains the information conveyed in the sentence below

32. When I visited Okon I only gave him a congratulatory cardA. the only person I visited was Okon and nobody elseB. it was only Okon that I gave a congratulatory cardC. Okon only wanted a congratulatory cardD. All that I gave Okon when I visited him was a congratulatory card

From the options choose the expression that BEST COMPLETES each sentence

33. The police_____up a list of suspects in the recent bombings.

- A. Has drawned
- B. Has drawn
- C. have drawned
- D. Have drawn

Choose the word that has the same sound as the one represented by the underlined letter

- 34. book
- A. lamb
- B. flock
- C. slump
- D. club
- 35. key
- A. kite
- B. guay
- C. kindred
- D. quarter

Choose the expression or word which best completes each sentence

36. Since Atim hasn't come till now I am in doubt ______ what to doA. toB. withC. about ______

D. of

37. The method	does not give the
expected results	
A. you recommended	
B. you visited	
C. you told me	
D. you sent me	

From the options listed A – E select the word that best captures the meaning of the italicized part of the sentences

38. Wolves are meat eaters

- A. herbivores
- B. carnivores
- C. animals
- D. omnivores

39. Miss Suzuki has published the *life stories of three movies stars*

- A. historian
- B. auto biographer
- C. writer
- D. biographer

40. Most of the birds my grandfather described are *no longer available* in our village forest

- A. travelled
- B. migrated
- C. hibernated
- D. extinct

Select the word that best captures the meaning of the italicised part of the sentence

41. The principles of American government are *the direct opposite* of communist doctrine

- A. apex
- B. antithesis
- C. anathema
- D. ambivalence

42. Superstition has it that certain foods and drinks are able to *increase sexual desire or potency*

- A. Apocryphal
- B. Amorous
- C. Amorphous
- D. Aphrodisiac

43. Collins had little understanding of the game, and most of his moves were random, *based on caprice* rather than reasoning A. Assiduous

B. Astute

C. Arbitrary D. Acute

44. Eddy vowed to live a long and happy life, *shun* temptation and avoid extremes A. Denv

- B. Devolve
- C. Eschew
- D. Emulate

Choose the expression or word which best completes each sentence

45. By the end of this year_____in this town for eleven yearsA. I'm livingB. I'd be livingC. I have lived

D. I'll have lived

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

- 46. He was reported _____ the policeman
- A. to be assaulting
- B. to assault
- C. assaulting
- D. to have assaulted

47. He devoted himself_____homeless

- children
- A. to helping
- B. to help
- C. with helping
- D. helping

48. My younger brother looked ill last night and evidently_____this morning.

- A. Worse
- B. Worst
- C. More ill
- D. leaner

After each of the following sentences, a list of possible interpretation of all or part of the sentence is given. Choose the interpretation that you consider most appropriate for each sentence:

49. For us to succeed in this task all hands must be on deck. This means that everybody

- A. should push with his hands
- B. will have to place his hands on the deck
- C. must cooperate
- D. should take a test to qualify

50. Kate was at home with all the questions asked by the examiner. This means that Kate was:

- A. Familiar with the questions
- B. Went home with the questions
- C. Prepared to go home with the questions
- D. Conceited about the questions

51. Mike flies off the handle each time there is an argument. This means:

A. Mike holds the door handle when he argues

- B. Mike allows the handle to fly
- C. Mike easily loses his temper
- D. Mike can cope with any argument

Complete the following sentences with the right option from the words supplied after each sentence

52. When the fire broke out in the hostel, students in ______rushed out in all

directions.

- A. Crisis
- B. Panic
- C. Haste
- D. Hurry

53. Astronomers keep a close watch of the night sky in order not to miss the appearance of some stars

- A. Parallel
- B. Periodic
- D. Periouic
- C. Regular
- D. Constant

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

54. My mother has refused to come to live in Lagos because she prefers the <u>tranquil</u> life in the village to the hurly burly of the city.

- A. Sweet
- **B.** Prosperous
- C. Peaceful
- D. Decent

55. A lorry larger than an <u>elephant</u> was struck on the bridge

- A. As large as an elephant
- B. Carrying an elephant.
- C. That looked like an elephant
- D. Of enormous proportions.

Choose the option that best completes the sentence

56. The dentist found that his patient's teeth_____

- A. Have long decayed
- B. Have long been decayed
- C. Have long being decayed
- D. Had long decayed

57. In order to catty out the necessary examination, the dead body was_____

- A. Extracted
- B. Exhumed
- C. Extradited
- D. Expelled

58. He went abroad with a view_____a business partner

- A. To fund
- B. To funding
- C. To be funding
- D. To have funded

In question 59, which of the options express the same idea as the one in quote?

- 59. 'To put something aside' is to
- A. Put it one's side
- B. Put it in a side pocket for future use
- C. Keep something for some special purpose
- D. Keep in safety.

Select the option that best explains the sentence:

60. The painting was beautifully faked

A. The painting was a good deceptive replicaB. The painting was well framed and displayed

C. The painting was deceptively decorated D. The painting was carefully hung

From the alternatives provided select the one which best completes the sentence

61. If only I_____insured? But I wasn't. But I have to pay a lot of money A. am B. have been C. had been

D. was to be

62. Since the petition writer did not include his name, the vice chancellor refused to act on such______letter

- A. a spontaneous
- B. an anonymous
- C. a scandalous
- D. a cowardly

63. The first graduation ceremony of the university was attended by men from all of life

- A. works
- B. areas
- C. walks
- D. walk

Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

64. He should be able to do it alone

- A. he would be able to do it alone
- B. he ought to be able to do it alone
- C. he has to be able to do it alone
- D. he will do it alone

65. The old man was said to have died intestate

- A. without an estate
- B. in his estate
- C. without a will
- D. in good state

From the alternatives provided select the one which best completes the sentence

66. If only I_____insured? But I wasn't. But I have to pay a lot of money A. am

- B. have been
- C. had been
- D. was to be

- A. a spontaneous
- B. an anonymous
- C. a scandalous
- D. a cowardly

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Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

69. <u>He should be able to do it alone</u>

- A. he would be able to do it alone
- B. he ought to be able to do it alone
- C. he has to be able to do it alone
- D. he will do it alone

70. The old man was said to have died intestate

- A. without an estate
- B. in his estate
- C. without a will
- D. in good state

In each of the following questions, the word in capital letter has the emphatic stress. Choose the option that best fits the expression in the sentence

71. The man BOUGHT the newspaper A. Is this the newspaper which the man bought?

- B. Did the man read the newspaper?
- C. Who bought the newspaper?
- D. What did the man buy?

72. The chief RAN to the place

- A. Where did the chief run to?
- B. Did the chief walk to the place?
- C. Did the princess run to the place
- D. Who ran to the place?

From the options lettered A – D choose the word opposite in meaning to the underlined words in the following sentences

73. Ebere's contrasts with his brother's indolence

- A. indulgence
- B. laziness
- C. labour
- D. diligence

74. The discussion ended on an amicable note even though there was grave _____at the beginning

- A. hostility
- B. incompatibility

C. irresponsibility

D. camaraderie

Select the word that best captures the meaning of the italicized part of the sentence

75. Some politicians in the area were said to be engaged in *double dealing*

- A. eschewing
- B. effeteness
- C. duplicity
- D. dubiousness

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ANSWERS TO ENGLISH LANGUAGE 2011/2012 QUESTIONS

A 2. D 3. D 4. A 5. D 6. C 7. C 8. D 9. B
 D 11. C 12. C 13. C 14. A 15. D 16. C
 A 18. D 19. B 20. C 21. B 22. D 23. C
 A 25. C 26. D 27. D 28. B 29. C 30. D
 D 32. D 33. D 34. D 35. B 36. C 37. A
 B 39. D 40. D 41. B 42. D 43. C 44. C
 D 46. D 47. A 48. A 49. C 50. A 51. C
 D 53. B 54. C 55. D 56. D 57. B 58. B
 C 60. A 61. C 62. B 63. C 64. A 65. D
 C 67. B 68. C 69. A 70. D 71. B 72. B
 D 74. B 75. C

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2011/2012 COMPUTER SCIENCE QUESTIONS

8. What type of devices are CDs or DVDs? 1. The following are output devices except: A. Mouse A. Input B. Plotter B. Output C. Printer C. Software **D.** Speakers D. Storage E. Monitor E. Processing 2. What type of device is a computer 9. What type of device is a digital camera? monitor? A. Input A. Input B. Output B. Output C. Software C. Software D. Storage D. Storage E. Processing E. Processing 10. A program that can copy itself and infect a computer without the permission or 3. What type of device is a computer knowledge of the owner is called what? keyboard A. Input A. Floppy B. Output B. Virus C. Software C. Java D. Storage D. Monitor E. Flash E. Processing 4. What type of devices are computer 11. Which of these is a correct format of IP speakers or headphones? address? A. Input A. 192.168.1.1 B. Output B. 192.168.111.1111 C. Software C. 192.168.900.1 D. 192.900.168.1 D. Storage E. 192.16.168.111 E. Processing 12. Which was the first web browser? 5. What type of device is a computer printer? A. World Wide Web A. Input B. Netscape Navigator C. Internet Explorer B. Output C. Software D. Safari E. Chrome D. Storage E. Processing 13. It is a small piece of text stored on a 6. What type of device is a 3¹/₂ inch floppy user's computer by a web browser for drive? maintaining the state. What are we talking A. Input about? B. Output A. Application C. Software B. Session D. Storage C. Cookie E. Processing D. Query String E. Applets 7. What type of device is a computer 14. Which of these is a correct format of mouse? A. Input Email address? B. Output A. contact.website.info C. Software B. contactwebsite.info D. Storage E. Processing

C. contact@website.info D. Microsoft Excel D. contact@website@info F. File7illa E. Contact.website@info 22. What are the two broad categories of 15. What does HTTP stands for? software? A. Hypertext Transfer Protocol A. MS Word and Spreadsheet B. Hypertext Transfer Plotter B. Transaction and Application C. Head Tail Transfer Plot C. Microsoft and Mac OS D. Head Tail Transfer Protocol D. System and Application E. Hypertext Transmission Process E. Transaction and System 16. In computers, what is the smallest and 23. One kilobyte contains how many bytes? basic unit of information storage? A. 1000 A. Bit B. 1001 C. 100 B. Byte C. Newton D. 1024 D. Megabyte E. 10 E. Kilo byte 24. Who Owns the Internet? 17. What is Windows XP? A. Internet Engineering Task Force **B. ICANN** A. Operating System C. Internet Architecture Board B. Storage Device C. Processor D. No one owns it D. Output Device E. InterNIC E. Input Device 25. What is the shortcut key of printing a document for computer having windows? 18. Which of the following is responsible for the management and coordination of A. Ctrl + PB. Shift + Pactivities and the sharing of the resources of the computer? C. Alt + PA. Application Software D. Shift + PP B. Motherboard E. Fn + P C. Operating System D. RAM 26. In computers, '.TMP' extension refers E. System Software usually to what kind of file? A. Temporary file 19. MP3 file format is associated with what B. Image file C. Video file type of files? A. Video D. Text file B. Audio E. Database file C. Image D. Word Document 27. The way of manipulating data into information is called E. Flash file A. Storing 20. MS-Word is an example of B. Processing A. Application Software C. Deletion B. System Software D. Organizing C. Operating System E. Transmission D. Scanner E. ALU 28. What Does BIOS Stand For? A. Better Integrated Operating System 21. Which software application is used for B. Basic Input Output System accessing sites or information on a network C. Battery Integrated Operating Setup (as the World Wide Web)? D. Backup Input Output System A. Operating System E. Battery Input Operating System B. Web Browser C. Microsoft Word

- 29. Memory management is a feature of A. Processor
- B. Operating System
- C. MS Word
- D. Animation
- E. UPS

30. Which of the following is not a storage device?A. DVDB. Hard DiskC. Floppy Disk

- D. Mouse
- E. Flash Drive

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ANSWERS TO COMPUTER SCIENCE 2011/2012 QUESTIONS

1. A 2. B 3. A 4. B 5. B 6. D 7. A 8. D 9. A

10. B 11. A 12. A 13. C 14. C 15. A 16. A

17. A 18. C 19. B 20. A 21. B 22. D 23. D

24. D 25. A 26. A 27. B 28. B 29. B 30. D

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2012-2013 PHYSICS POST UTME QUESTIONS

1. The weakest form of bonding in materials	B. as a looking glass C. in a periscope D. in a kaleidoscope
 A. Ionic B. Metallic C. Covalent D. Van der Waals 2. The period of a simple pendulum oscillating in a vacuum depends on A. The mass of the pendulum 	9. If V is the velocity of a wave, is its wavelength and T its period. The V, and T are related by the expression A. =V/T ² B. V = T C. = VT
B. The length of the pendulumC. The acceleration due to gravityD. The volume of the pendulum	10. Three 3.0 ohms resistors are connected in parallel. What is the equivalent resistance?
3. Which one of the following phenomena cannot be explained by the wave theory of light?A. RefractionB. Interference	A. 9.0 ohms B. 1.0 ohm C. 6.0 ohms D. 3.0 ohms
C. Diffraction D. Photoelectric effect	11. The distance between two successive crest or trough is A. amplitude
 4. Which of these bests describes the power of a lens A. P = /f B. P = /f² 	B. wavelength C. frequency D. wave distance
D. $P = f^2$ D. $P = f$	12. An object is placed 15cm in front of a convex mirror and an image is produced 5cm behind the mirror, calculate the focal
 5. Which of the following attributes of a machine does not depend on friction? (1) Mechanical advantage (2) Velocity ratio (3) Efficiency A. 1 only 	length of the mirror A7.5cm B. 10cm C. 7.5cm D. 20cm
B. 2 only C. 3 only D. 1 and 2 only	13. A ball is projected horizontally at 15m/s from a point 20m above a horizontal surface. The magnitude of its velocity in m/s
6. A cell is a device which convertsA. Kinetic energy to potential energyB. Sound energy to electrical energyC. Chemical energy to heat energyD. Chemical energy to electrical energy	when it hits the surface is (g=10m/s ²). A. 10 B. 15 C. 20 D. 25
 7. In which of the following media would sound waves travel fastest A. kerosene B. alcohol C. water D. iron 	14. A malaria patient has a body temperature of 39.5°C. Convert this temperature to of A. 83.2°F B. 103.1°F C. 77.4°F D. 147 °F
8. Which of the following is not a use of plain mirrors A. as wing mirrors on cars	15. Positive charges usually move from A. Higher to lower potential areas

- B. Lower to higher potential areas
- C. North to south

D. Higher resistance to lower resistance areas

16. A truck traveling with a velocity of 40m/s applies the brakes and comes to a halt after 20 seconds. What is distance travelled by the truck before coming to a halt

- A. 40m
- B. 800m
- C. 400m
- D. 10m

17. In a harmonic oscillation of a simple pendulum, one of the following statements is correct?

A. The potential energy and the kinetic energy of the bob are equal at all times B. The potential energy is equal to the kinetic energy at the central position of the oscillation

C. The potential and the kinetic energies of the bob are maximum at the maximum height of the oscillation D. None of the above

18. If the linear expansivity of a metal rod is 4×10^{-5} per °C, what will be the new length of the rod if it is heated from 15°C to 95°C from its original length of 20cm

- A. 0.064 cm
- B. 0.64 cm
- C. 20.64 cm
- D. 20.064 cm

19. The heat required to melt ice at 0°C to water at the same temperature is called A. Apparent heat of fusion

- B. Apparent heat of vaporization
- C. Latent heat of vaporization
- D. Latent heat of fusion

20. Which of the following is used in a nuclear reactor to slow down fast-moving electrons?

- A. Carbon dioxide gas
- B. Liquid sodium metal
- C. Concrete shield
- D. Graphite rods.

21. Calculate the power-rating of a heating element which melted in 20g of ice at 0° C and raised the temperature of the resulting water to 60° C in 2 minutes Specific latent heat of fusion of ice = 340 J/g [Specific heat capacity of water = 4.2 J/g/°C] A. 5.92kw B. 98.6w C. 107w D. 42w

22. If a man cannot see objects very close to him the following can be used to correct the problem.

- A. Convex lens
- B. Convex mirror
- C. Concave lens
- D. Concave mirror

23. when the bob of a simple pendulum is at its highest displacement, one of the following happens:

- A. kinetic energy is maximum
- B. potential energy is maximum
- C. total energy is zero
- D. momentum is maximum

24. When the atmospheric pressure is very low in a given location, boiling point of water:

- A. increases
- B. decreases
- C. remains
- D. cannot boil

25. Which of these statements is correct about cathode rays? They are fast moving

- A. atoms
- B. neutrons
- C. electrons
- D. ions

26. Which of the following has the highest surface tension?

- A. soapy water
- B. cold water
- C. warm water
- D. Salt water

27. A truck traveling with a velocity of 40m/s applies the brakes and comes to a halt after 20 seconds. What is the distance travelled by the truck before coming to a halt?

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- D. 10m

28. If the linear expansivity of a metal rod is $4 \times 10-5$ per °C, what will be the new length of the rod if it is heated from 15° C to 95° C

from its original length of 20cm A. 0.064 cm B. 0.64 cm C. 20.64 cm D. 20.064 cm

29. 44KJ of heat was used in raising the temperature of 2kg of paraffin oil from 36°K to 37°K. Calculate the specific heat capacity of paraffin oil A. 2.2 J/kg/K

- B. 2.2 x 10³ J/kg/K
- C. 2.2 x 10⁵ J/kg/K
- D. 220 J/kg/K

30. A simple machine overcomes a load of 4000N when a force of 200N is applied. If the velocity ration of the machine is 25, calculate the efficiency of the machine? A. 1.25%

- B. 80%
- C. 125%
- D. 0.8%

31. A long-sighted person is to read a bookheld at a distance of 20cm from the eyes. Which of the following will the person require to read the book with ease? A. Nothing

- B. Concave lens
- C. Convex lens
- D. Concave mirror

32. An object at the bottom of a pool of liquid 10m depth is seen by an observer as if it is at 8m depth. What is the refractive index of the liquid

A. 0.25

- B. 0.20
- C. 1.25
- D. 0.8

33. Which of the following has the highest surface tension?A. soapy water

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- D. Salt water

34. The emf developed in a circuit is directly proportional to the rate of change of magnetic flux. The above was a finding from A. Maxwell

- B. Faradav
- C. Ampere
- D. Lenz

35. Which of the following is stored by a dry LeClanche cell?

- A. Chemical energy
- B. Solar energy
- C. Electrical energy
- D. Heat energy

36. A ball is projected horizontally from the top of a hill with a velocity of 20m/s. if it reaches the ground 4 seconds later. What is the height of the hill? $(g=10m/s^2)$.

- A. 200m
- B. 20m
- C. 160m
- D. 40m

37. The expansion of solids can be considered a disadvantage in

- A. fire-alarm system
- B. thermostat
- C. reverting of steel plates
- D. balance wheel of a watch

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- B. 0.64 cm C. 20.64 cm
- D. 20.04 cm

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- C. 125% D 0.904
- D. 0.8%

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- B. thermostat
- C. reverting of steel plates
- D. balance wheel of a watch

60. A total internal reflection occurs in the glass-air boundary when the angle of incidence is

- A. greater than the right angle
- B. greater than critical angle
- C. greater than angle of prism
- D. greater than angle of deviation

61. At what temperature will the Celsius scale coincide with the Fahrenheit scale? A. 40°

- B. -70°
- C. 70°
- D. -40°

62. Which of these statements is correct about cathode rays? They are fast movingA. atomsB. neutronsC. electrons

D. ions

63. The upthrust experienced by an object immersed in a fluid makes the object feel A. Heavier

- B. Lighter
- C. sink lower
- D. none of the above

64. Which of the following has the highest surface tension?

- A. soapy water
- B. cold water
- C. warm water
- D. Salt water

65. Which of these is NOT a consequence of hydrogen bubbles covering the upper plate of a primary cell?

- A. Polarization
- B. Local action
- C. Generation of less current by the cell
- D. Increase in the resistance of the cell.

66. What is the current in a circuit if the charge of 240 coulombs pass each point in 2 minutes

- A. 120 A
- B. 480 A
- C. 4 A
- D. 2 A

67. An electric in Nigeria has a number of 60w coloured bulb. How many can be connected to a 240V supply through a 5A fuse

- A. 20
- B. 48
- C. 5
- D. 4

68. A radio station broadcasts on a frequency of 100MHz. If the sped of the radio wave is 3×108 m/s, what is the wavelength of the radio wave from this station

- A. 3 x 106m
- B. 3 x 103m
- C. 300m
- D. 3m

69. If you need to clearly see an object that is at a very far distance, then you need to use

- A. periscope
- B. microscope
- C. telescope
- D. prism scope

70. Michael Faraday found that the EMF developed across a conductor is directly proportional to the

- A. current applied
- B. voltage applied
- C. rate of change of magnetic flux
- D. rate of change of electric flux

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ANSWERS TO PHYSICS 2011/2012 QUESTIONS

D 2. C 3. D 4. A 5. B 6. D 7. D 8. A 9. C
 B 11. B 12. A 13. D 14. B 15. A 16. A
 D 18. D 19. D 20. C 21. B 22. A 23. B
 B 25. C 26. B 27. A 28. D 29. B 30. B
 C 32. C 33. B 34. B 35. A 36. C 37. D
 A 39. B 40. C 41. C 42. C 43. C 44. C
 D 46. B 47. C 48. D 49. D 50. A 51. C
 D 46. B 61. D 55. C 56. B 57. B 58. A
 D 60. B 61. D 62. C 63. B 64. B 65. B

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2011/2012 CHEMISTRY POST UTME QUESTIONS

1.		
	1.	

are allotropes of

- carbon A. graphite and sulphur
- B. amorphous charcoal and coke
- C. diamond and graphite
- D. carbon monoxide and coke
- 2. A substance is said to be hygroscopic if it
- A. does not absorb moisture
- B. is suspended in water
- C. dissolves when it absorbs moistures
- D. hydrolysis in water

3. $CH_3CO_2H + CH_3CH_2OH$? The functional group under and in the equation is a/an

- ____group
- A. Alkanol
- B. Carbonyl
- C. Keto
- D. Carboxylic acid

4. The gas equation PV= nRT is made up of Charles' Law and_____law

- A. Le Chateliers'
- B. Gay-Lussac's
- C. Boyle's
- D. Newton's

5. The acid in butter is called _____acid

- A. Butanonoic
- B. Butyric
- C. Benzoic
- D. Butandioic

6. The oxidation state of calcium is $CaCl_2$ is

- A. +1
- B.+2
- C.+3
- D.+4

7. The mass number of an atom of an element is the sum of its

- A. Electrons, neutrons and protons
- B. Electrons and protons
- C. Protons and neutrons
- D. Valence electrons

8. The existence of two or more forms of the same element in the same physical state is known as_____

- A. Allotropy
- B. Resonance
- C. Hybridization
- D. Isotopy
- 9. In which of the following are radioactive isotopes used?
- A. Scientific research
- B. Dating techniques
- C. Treatment of cancer
- D. All of the above

10. The phenomenon observed when dust particles collide randomly in a beam of sunlight is known as

- A. Tyndale effect
- B. Diffusion
- C. Osmosis
- D. Brownian movement

11. The main characteristic features of transition metals are that they

- A. Have the same atomic size
- B. Are reducing agents
- C. Forms ions easily
- D. Have variable oxidation states

12. In 1898, which scientist proposed that the atom is a sphere of positively charged matter in which negatively charged electrons are embedded

- A. Earnest Rutherford
- B. Max Planck
- C. J.J Thomson
- D. Robert Millikan

13. Oxygen gas is collected in the laboratory by $_$

- A. upward displacement of air
- B. upward displacement of water
- C. downward displacement of water
- D. using a gas layer

14. $CuO + H_2 Cu + H_2O$.

- In the reaction above CuO is _____
- A. oxidized to copper
- B. reduced to copper
- C. chemically converted to copper
- D. reversed to copper

15. Isotopes are atoms if the same element with _____

A. different protons
B. mass above 50 C. inter convertible masses D. different masses	D. I, II & III E. I, II, III & IV
 16. A reaction is in equilibrium when A. the rate of the forward reaction is equal to the rate of the reverse reaction B. the reaction rates of the forward and backward reaction are zero C. its rate is reversible D. it does not produce ant product again 	 22. The properties of electrovalent compounds include the following except A. High melting point and boiling point B. Conduction of electricity in the molten state C. High volatility at room temperature D. Ionization in aqueous solution
 17. The boiling point of a liquid such as methanol is the temperature at which its A. vapour pressure is equal to 1 atmosphere B. vapour pressure is equal to the atmospheric pressure C. reactants and products are at standard states 	23. Which of the following statements is not corrected about electrolysis?A. Reduction occurs at the anodeB. Anions migrate to the anodeC. Positive ions migrate to the cathodeD. Concentration affects the discharge of ions
D. vapour pressure doubles atmospheric pressure	24. Separation of mixtures of solids by physical methods can be based on differences in the following except
 Alkenes andare compounds that contain a multiple bond each Alkanes Benzene 	A. Melting point B. Solubility C. Particle size D. Molar mass
C. Alkynes D. Benzaldehyde	25. The following are major gaseous pollutants except.
19. A palm fruit dropped to the ground from the top of a tree 45m tall, how long does it take to reach the ground? (take $g=10ms^{-2}$) A. 1s B. 2s	A. CO B. CO ₂ C. SO ₂ D. CFC
C. 3s D. 5s	26. Brass is an alloy containing copper and A. zinc B. tin
20is due to the formation of hydrogen gas bubbles around the copper plate of a simple cell	C. silver D. lead
A. polarization B. depolarization C. local action D. amalgamation	27. Which of the following reduces the activation energy of a chemical reaction? A. freezing mixture B. reducing agent C. water
21. Which of the following can be explained by the kinetic theory?	D. catalyst
I. The physical state of matterII. Diffusion of gasesIII. Melting of solidIV. Evaporation of liquids	 28. In the electrolysis of brime, the anode is A. carbon B. platinum C. zinc D. copper
A. IV B. I & II	29. What current in ampere will deposit
C. III & IV	0.27g of aluminium in 2 hours?

[AI=27, F=9650 ^o C]. A. 3.2 B. 8	B. CO ₂ C. SO ₂ D. CFC
C. 0.4	
 D. 16 30. What is the likely formula of a compound formed between element M in group 2 and between element X in group 7? A. M7X2 B. MX2 C. M2X7 D. M2X 	 36. The ration of reactants to products is 1: 3: 2 in the reaction represented by the equation below: N_{2(g)} + 3H_{2(g)} ≒ 2NH_{3(g)} A. Boyle's law B. Law of multiple proportion C. Gay-Lussac's law D. Law of constant composition
0. 1127	37. PH of a 0.0001M acid is
31. Which of the following can be explained	A. 1
by the kinetic theory?	B. 2
I. The physical state of matter	C. 3
II. Diffusion of gases	D. 4
III. Melting of solid	
IV. Evaporation of liquids	39. Alkanoates are produced from alkanols
A. IV	by A Estorification
B. I & II	A. Esterification B. Fermentation
C. III & IV	C. Saponification
D. I, II & III	D. Oxidation
E. I, II, III & IV	
	40. Esters are employed in the following
32. The properties of electrovalent	except
compounds include the following except A. High melting point and boiling point	A. Making perfumes B. Nail vanisher
B. Conduction of electricity in the molten	C. Making solvent for cellulose
state	trioxonitrate(V)
C. High volatility at room temperature	D. Making cement
D. Ionization in aqueous solution	
E. Decomposition of their solutions by electric current	41. What mass of anhydrous sodium
	trioxocarbonate(IV) is present in 500cm ³ of 0.1mol dm ⁻³ of the solution [Na=23, C=12,
33. Which of the following statements is not	0=16]
correct about electrolysis?	A. 10.6g
A. Reduction occurs at the anode	B. 106g
B. Anions migrate to the anode	C. 5.3g
C. Positive ions migrate to the cathode D. Concentration affects the discharge of	D. 53g
ions	42. The oxidation state of oxygen in
E. Electrolysis conduct electric current	tetraoxosulphate(IV) acid is
	A4
34. Separation of mixtures of solids by	B. +4
physical methods can be based on	C2
differences in the following except A. Melting point	D. +2
B. Solubility	43. Metals of the first transition series have
C. Particle size	special properties which are different from
D. Molar mass	those of groups I and II elements because
	they have partially filled
35. The following are major gaseous	A. S orbital
pollutants except	B. P orbital
A. CO	

C. D orbital [Cu = 40; S = 32; O = 16]D. F orbital A. 0.25a B. 0.50q C. 10q 44. Separation of different carotenes from D. 2.5q carrot root uses a method A. centrifugation B. Distillation 51. ${}^{114}Cs \rightarrow {}^{A}E \rightarrow {}^{4}a$. 55 Z 2 C. chromatography Find the value of A and Z in the equation D. keratinization above A. 119, 53 45. B. 110, 57 Solution W Х Ζ Υ C. 110, 53 2 PH 8 12 4 D. 110, 58 From the table, which of the solutions W, C, 52. How many moles of H₂ molecules are Y and Z will liberate carbon (IV) oxide from needed to convert 5 mol of O₂ molecules to a trioxocarbonate (IV) salt? water? A. 5 mol of H₂ A. Z **B.** Y B. 10 mol of H₂ C. W C. 15 mol of H_2 D. X D. 20 mol of H_2 46. 50 cm³ of saturated solution of KNO₃ at 53. ${}^{22}_{88}Ra \rightarrow {}^{x}_{8}Rn + a$. 40°C contained 5.05g of salt. What is the What is the value of X in the nuclear solubility of KNO₃ at 40° C? reaction above? [K = 39, N = 14, O = 16]A. 220 A. 1.0moldm⁻³ B. 222 B. 1.5moldm⁻³ C. 226 C. 2.0moldm⁻³ D. 227. D. 5.0moldm⁻³ 54. When naphthalene on heating changes 47. A brand of ink containing cobalt (III), from solid state directly to the gaseous copper (II) and iron(II) ions can best be state, it undergoes separated into its various components by A. sublimation A. fractional crystallization B. evaporation B. fractional distillation C. combustion C. sublimation D. decomposition D. chromatography 55. Which of the following is an electrolyte? 48. If the rate law obtained for a given A. alcohol reaction is given as rate = K[X]n[Y]m, what B. sodium ethanoate is the overall order of the reaction. C. solid potassium hydroxide A. nm D. mercury B. n/m C. n + m 56. The equation $^{14}N + ^{4}He \rightarrow ^{15}O + ^{1}P$ D. n-m represents? A. nuclear fusion 49. A molecular formula shows in a B. nuclear fission molecule C. artificial radioactivity A. the elements present D. nuclear fission using positron B. the number of atoms of each element C. cations and anions 57. Which of the following is a general D. chemical symbols and number of atoms method of preparing acids? A. Direct combination of constituent 50. Give the total mass of copper in 1gm of elements B. Double decomposition involving a salt copper (II) sulphate

39

solution

- C. Reaction between an anhydride and water
- D. Reaction between a base and an
- amphoteric oxide
- E. Dissolution of hydroxides followed by neutralization
- 58. Monosaccharides are
- A. hydrolysable
- B. non-hydrolysable
- C. not soluble in water
- D. sweet but sometimes non-sugary

59. The major air pollutants that can result from smoky vehicles include

- A. Acid fumes
- B. Hydrogen sulphide
- C. Carbon (II) oxide
- D. Carbon particles

60. If an element has the electronic configuration $1s^22s^22p^63s^23p^4$, it is _____ A. metal

- B. An alkaline earth metal
- C. An S-block element
- D. A P-block element

61. Compounds that have the same molecular formula but different structures are said to be _____

- A. Allotropic
- B. Isotopic
- C. Polymeric
- D. Isomeric

62. Which of the following statements is not correct?

- A. Carbon exhibits allotropy
- B. Sulphur exhibits allotropy
- C. Chlorine exhibits allotropy
- D. Hydrogen is a gas

63. 300cm³ of a gas has a pressure 400mmHg. If the pressure is reduced to 150mmHg. Find its volume.

- A. 700 cm³
- B. 800 cm³
- C. 350 cm³
- D. 112.5 cm³

65. Ethyne, Ethene, Cyclohexane and Propene can be classified as _____ A. alkenes

- B. aromatic compounds
- C. saturated compounds
- D. multiple bond hydrocarbons

66. If the PH of a compound is 3.2 that compound is _____ A. Amphoteric B. A Salt C. An Acid

D. A Base

67. Which is the most ionic in the group below

- A. Cl₂
- B. NaCl
- C. AICI₃
- D. CaCl₂

68. Hydrogenation of palm oil results in a solid compound called

- A. candle
- B. solid palm oil
- C. palm oil
- D. ester

69. An Amphoteric compound _____

- A. Reacts with alcohols
- B. Reacts both as an acid and as a base
- C. It is solid at room temperature
- D. has a PH of 7

70. In structural isomerism same atoms are linked to _____

- A. carbon atoms
- B. similar atoms
- C. different neighbouring atoms
- D. different functional groups

ANSWERS TO CHEMISTRY 2011/2012 QUESTIONS

C 2. C 3. D 4. C 5. B 6. B 7. C 8. A 9. D
 A 11. D 12. C 13. C 14. B 15. D 16. A
 B 18. C 19. C 20. A 21. E 22. C 23. A
 D 25. B 26. A 27. D 28. A 29. C 30. B
 E 32. C 33. A 34. D 35. B 36. C 37. D
 39. A 40. D 41. C 42. C 43. C 44. C
 B 46. A 47. D 48. C 49. D 50. A 51. C
 E 53. C 54. A 55. B 56. C 57. A 58. B
 C 60. D 61. D 62. C 63. B 64. D 65. D
 C 67. B 68. C 69. B 70. C

2011/2012 BIOLOGY POST UTME QUESTIONS

 The wavelike motion of the muscles of the oesophagus to push each bolus of food downwards is known as Anti-peristalsis Digestion Peristalsis Oesophageal motion Which of these diseases cannot be controlled by killing the vectors? River blindness Malaria Polio Cholera If a tall man (TT) marries a dwarf woman (tt) and they have four children, what will be the ratio of tall to dwarf children? 0 tall:4 dwarf 3 tall:1 dwarf 2 dwarf:2 tall 4 tall:0 dwarf 	 B. Ribosome C. Mitochondria D. Nucleus 9. Mutations involving alterations in the genes are called A. Gene mutations B. Gene changes C. Chromosomal mutations D. Chromosomal changes 10. Which vertebra has a projection on the centrum called odontoid process? A. Atlas B. Axis C. Thoracic D. Lumber 11. Deamination occurs in
C. The Vesicle D. The Cytosol	C. Adaptation D. Competition
 5. Photosynthetic organisms are classified as A. Autotrophs B. Heterotrophs C. Herbivorous D. Omnivorous 6. Which of the organisms listed below is not a micro-organism? A. Virus B. Tapeworm C. Coccus D. Vibrio cholera 	 13. The following are connected with the movement of a reflex action Which of the following sequences indicates a correct path? (1) Central nervous system (2) Muscle (3) Skin (4) Sensory nerve (5) Motor nerve A. 1-2-3-4-5 B. 2-1-4-5-3 C. 3-4-1-2-5 D. 3-4-1-5-2 14. Which of the following statements is
 7. The nervous system is made up of A. Kidney, bladder and liver B. Testes and ovaries C. Brain and spinal cord D. Muscles and skeleton 	14. Which of the following statements is NOT true of symbiosis?A. Symbionts must be livingB. It is an association of `give and take'C. The association may involve two plantsD. Association between two similar species
8. The synthesis of protein takes place in_ A. Golgi body	15. The deficiency of Vitamin D leads to: A. Scurvy B. Pellagra
Δ	1

C. Rickets

- D. Beriberi
- 16. Hepatic portal vein is unique because it
- A. Carries deoxygenated blood
- B. Begins and ends with capillaries
- C. Is the largest vein in mammals
- D. Carried digested food

17. The thoracic vertebrae of a mammal is characterized by the

- A. Vertebroarterial canal
- B. Prominent neural arch
- C. Prominent neural process
- D. Prominent neural spine

18. A grasshopper respires by means of its

- A. Lung-books
- B. Gills
- C. Lungs
- D. Tracheal tubes

19. The inactive state exhibited by an animal during hot dry seasons is termed

- A. Aestivation
- B. Dormancy
- C. Resting
- D. Hibernation

20. Auxins are produced in the

- A. petiole of leaves
- B. parenchyma of roots and shoots
- C. epidermis of roots and shoots
- D. apical regions of roots and shoots

21. Which of the following methods of reproduction is common in Paramecium and Amoeba?

- A. Conjugation
- B. Sexual reproduction
- C. Binary Fission
- D. Budding

22. An example of cryptic coloration is the:A. Mottled colours on moths that rest on lichens

B. Bright colour of an insect pollinated flower

C. Green colour of a plant

D. Bright marks on a poisonous tropical frog on variegated leaves

23. Which of the following organs is responsible for controlling the body temperature regulation and water balance in mammals?

A. Kidney

B. Hypothalamus

C. Parathyroid D. Adrenal

24. A man and his wife are both heterozygous for the sickle cell trait. The likely percentage of their offspring that will either be carriers or 'Sickler' is

- A. 75%
- B. 50%
- C. 25%
- D. 100%

25. The brain and the spinal cord make up the

- A. Peripheral nervous system.
- B. Autonomic nervous system
- C. Central nervous system.
- D. Somatic nervous

26. The hormone which regulates the amount of sugar in the blood is

- A. Thyroxine
- B. Auxin C. Insulin
- C. Insulin
- D. Adrenalin

27. Which of the following is the effect of using artificial pollination in plant breeding?

- A. production of healthy crops
- B. improvement of the variety of crops
- C. lengthening the maturity time
- D. making crops susceptible to diseases

28. Which of the following processes will not introduce carbon dioxide into the atmosphere?

- A. breathing
- B. photosynthesis
- C. Respiration
- D. Putrefaction

29. Which of the following does not contribute to the biomass in an ecosystem? A. producer's

- B. food chain
- C. consumer's
- D. micro-organisms

30. Which of these diseases cannot be prevented by immunization?

- A. Onchocerciasis
- B. Poliomyelitis
- C. Cholera
- D. Tuberculosis

31. Which of the following specialized structures are stimulated by touch, pressure, pain, heat and cold?

- A. receptors
- B. synapse
- C. cell bodies
- D. myelin

32. The process by which plants and animals are modified in structure, physiology and behaviour in order to survive is known as

- A. evolution
- B. adaptation
- C. succession
- D. hibernation

33. Thunderstorm can be beneficial to plants because it

- A. kills pests that attack crops
- B. adds lime to the soil
- C. adds nitrates to the soil
- D. makes rain water available to plants

34. When large numbers of organisms share limited space and resources, the result is

- A. immigration
- B. symbiosis
- C. extinction
- D. competition

35. Even though some flowering plants contain accessory pigments which give them colours, they still contain the pigment

- A. melanin
- B. chlorophyll
- C. carotene
- D. xanthophyll

36. Which structure in the maize grain stores food?

- A. radicle.
- B. embryo
- C. cytoplasm
- D. endosperm

37. Which of the following statements is not associated with the theory of natural selection?

- A. There is a struggle for existence
- B. There is competition among the offspring
- C. The weaker offsprings are eliminated
- D. Food and other needs are abundant

38. Nitrogen fixing micro-organisms in leguminous plants live symbiotically in the A. branch roots

B. tap roots

C. root nodules

D. root hairs

39. The epidermis of the mammalian skin is an example of a tissue because the cells

- A. prevent light from passing through them
- B. Have a similar structure and function
- C. prevent excessive loss of water
- D. are impregnated with keratin

40. The phenomenon whereby some organisms with certain features get established in an environment is known as A. Partial selection

- A. Partial selection
- B. Artificial selection
- C. Natural selection
- D. Mutation

41. Who formulated the theory of natural selection in evolution?

- A. Gregor Mendel.
- B. Jean Lamarck
- C. Mathias Scheiden
- D. Charles Darwin

42. Which of the following statements is not correct of respiration?

- A. Gaseous exchange occurs by diffusion
- B. Oxygen combines with haemoglobin in the respiratory surface

C. Carbon dioxide produced in the tissues is removed by the process of osmosis D. there are no special organs of respiration in plants

43. Which of the following constitutes the main internal tissues of a leaf?

- A. Cuticle
- B. Mesophyll
- C. Vascular tissue
- D. Lower epidermis

44. Which of the following is an autotrophic mode of nutrition?

- A. Chemosynthesis
- B. Saprophytism
- C. Parasitism
- D. Symbiosis

45. Which of the following structures differentiates an animal cell from a plant cell?

- A. Ribosomes
- B. Cell membrane
- C. Chloroplast
- D. Mitochondrion

46. The change in colour of the chameleon	B. The two solutions must be of different
serves as a means of	concentrations initially
	•
A. attraction to the opposite sex	C. It involves only the movement of water
B. repulsion of the enemy	molecules
C. a camouflage from a predator	D. The two solutions are of equal
D. regulation of body temperature	concentration at the beginning of the
	experiment.
47. At which of the following stages of	
mitosis do the two daughter chromosomes	54. The pulmonary artery carries
separate completely?	A. de-oxygenated blood from the right
A. early prophase	ventricle to the lungs
B. telophase	B. oxygenated blood from the right ventricle
C. Anaphase	to the lungs
D. late prophase	C. oxygenated blood from the left ventricle
- · · · · · · · · · · · · · · · · · · ·	to the right auricle
48. The role of dead organic matter in the	D. de-oxygenated blood from the left
soil is to	ventricle to the right auricle
A. Make the soil black.	Ventricle to the right adhere
B. Increase the mineral salt content.	EE Which of the following parts of the
	55. Which of the following parts of the
C. Provide food for all living organisms	mammalian brain is involved in taking the
D. Increase the acidity of the soil.	decision to run rather than walk?
	A. Cerebellum
49. If the petals of a flowering plant are	B. Medulla oblongata
removed, which of the following processes is	C. Cranial nerves
likely to be affected?	D. Cerebrum
A. Transpiration	
B. Pollination	56. Water rises most rapidly in
C. Germination	A. Sandy soil.
D. Photosynthesis	B. Clayey soil
	C. Sandy-loam soil
50. Which of these substances is likely to be	D. Loamy soil
deficient in the diet of a person having	
goitre?	57. Euglena moves by:
A. Potassium	A. Whipping of its flagellum
B. Calcium	B. Beating of its cilia
C. Iodine	C. Rotating action of the flagella
D. Sodium	D. pushing out a jet of water from an
D. Soulum	organelle
E1 Banana plantain and pinaapple can be	organelle
51. Banana, plantain and pineapple can be	EQ. The following life pressure are common
grouped together because they	58. The following life processes are common
A. produce small seeds	to both plants and animal except
B. are multiple fruits	A. respiration
C. produce suckers	B. growth
D. have runners	C. reproduction
	D. photosynthesis
52. The structure in the cell that controls the	
movement of substances in and out of the	59. Which of the following statements is
cell is the	correct of hormones? Hormones are
A. Cytoplasmic membrane	A. secreted into the blood through ducts
B. Nuclear membrane	B. secreted directly into the blood stream
C. Cytoplasm	C. inactive chemical substances in the blood
D. Protoplasm	stream
•	
	D. non-specific in their mode of action
53. Which of the following statements is not	D. non-specific in their mode of action
53. Which of the following statements is not true of osmotic process?	
true of osmotic process?	60. Which of the following statements is not

- A. there is a struggle for existence
- B. there is a competition among offspring
- C. the weaker offspring are eliminated
- D. Food and other needs are abundant

61. Water is necessary for a germinating seed because it

- A. promotes aerobic respiration
- B. activates the enzymes
- C. wets the soil for proper germination
- D. protects the seed from desiccation.

62. The farming practice by which an exhausted land is left for a number of years before cultivation is known as

- A. crop rotation
- B. continuous cropping
- C. mono cropping
- D. bush fallowing

63. Which of the following instruments is used for determining the turbidity of the water?

- A. thermometer
- B. Secchi Disc.
- C. Rain Gauge.
- D. Hygrometer

64. The surest way to combine the best qualities of both parents in the offspring is by

- A. cross-breeding
- B. in breeding
- C. selective breeding
- D. all of the above

65. Which of the following is not true about gene mutation?

- A. it introduces new traits into a population
- B. causes changes in the DNA
- C. is a source of new genes
- D. always affects the chromosome number

66. In unicellular organisms, essential nutrients can be transported directly to all parts of the body by the process of diffusion only because unicellular organisms have:

- A. A large surface area to volume ratio
- B. A large volume to surface area ration
- C. Permeable cell membrane

D. Their body is always immersed in the nutrient material

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

- A. Chromosomes
- B. Nucleolus

- C. Mitochondrion
- D. Genes

68. The structure in the cell that controls the movement of substance in and out of the cell is the

- A. Cytoplasmic membrane
- B. Nuclear membrane
- C. Cytoplasm
- D. Protoplasm

69. Which of these is not an excretory product of plant?

- A. Tannin
- B. Gum
- C. Alkaloid
- D. Sweat

70. Which of the following processes will not introduce carbon dioxide into the atmosphere?

- A. Breathing
- B. Photosynthesis
- C. Respiration
- D. Putrefaction

ANSWERS TO BIOLOGY 2011/2012 QUESTIONS

1. C 2. D 3. D 4. A 5. A 6. B 7. C 8. B 9. A 10. B 11. D 12. C 13. D 14. D 15. C 16. D

17. D 18. D 19. A 20. D 21. C 22. D 23. B

24. A 25. C 26. C 27. B 28. B 29. B 30. A

31. A 32. B 33. C 34. D 35. B 36. D 37. D

- 38. C 39. B 40. C 41. D 42. C 43. B 44. A
- 45. C 46. C 47. C 48. B 49. B 50. C 51. C
- 52. A 53. D 54. A 55. D 56. A 57. A 58. D
- 59. B 60. D 61. B 62. D 63. B 64. A 65. D

66. A 67. C 68. A 69. D 70. B

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2011/2012 MATHEMATICS POST UTME QUESTIONS

A. 5 B. 5√3 1. Find the average of the first four prime numbers areater than 10 C. 5√5 A. 20 D. 75 B. 11 C. 17 10. If 8y = 3x - 11, then x = ?D. 15 A. (88/3) y B. (8/3) y + 11 C. (8/3) y - 11 2. Given that P/r and p = 3 when r = 16, find the value of r when p = /rD. (8y + 11)/3A. 94 B. 45 11. Which of the statements describes the C. 72 solution set for -2(x + 8) = -2x + 20? D. 324 A. x = -2 only B. x = 0 only 3. 4 x 10-5 = ? C. x = 20 only A. - 40,000 D. There are no solutions for this equation. B. - 200 C. 0.0004 12. When graphed in the (x,y) coordinate D. 0.00004 plane, at what point do the lines 2x + 3y =5 and x = -2 intersect? 5. The quadratic equation whose roots are A. (-2,0) B. (-2,5) at x = 3 and x = 5 is given by A. (x - 3)(x - 5) = 1C. (0,5/3) B. (x + 3)(x +D. (-2,3) 5) - 9 = (x + 3)(x + 5) - 25C. (x + 3)(x + 5) = 013. Which of the following is equal to $\sqrt{45}$ D. $x^2 - 8x = -15$ A. 15 B. 5√3 6. There are 15 balls in a box: 8 balls are C. 9√5 green, 4 are blue and 3 are white. Then 1 D. 3√5 green and 1 blue balls are taken from the box and put away. What is the probability 14. If a = 3, then 2 / (1/7 + 1/a) = ?that a blue ball is selected at random from A. 5 B. 21/10 the box? A. 3/13 C. 20 B. 4/15 D. 21/5 C. 3/15 D. 4/13 15. If the expression $x^3 + 2hx - 2$ is equal to 6 when x = -2, what is the value of h? 7. If -3/(a - 3) = 3/(a + 2), then a = ?A. 0 A. -3 B. -2 C. -4 B. -2 C. 1/2 D. 4 D. 2 17. If the domain of function f given by f(x)8. What is the average of 7/8 and 3/4? $= -x^{2} + 6x$ is given by the interval [0, 6], then the range of f is given by the interval A. 13/8 B. 5/6 A. [0, 9] C. 5/3 B. [0,6] D. 13/16 C. [0, 3] D. [3,6] 9. If the hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches 18. The x intercepts of the graph of long, how long is the other leg? $y = -x^2 + 3x + 18$ are given by

A. (6, -3) D. -8 B. (-3, 6) F. -4 C. (-3, 0) and (6, 0) D. (3, 0) and (-6, 0) 26. The sum of integers from 4 to 8 plus the sum from 12 to 16 is 19. The sum of the first n terms of a linear A. 80 sequence Sn = n2 + 2n. Determine the B. 120 general term of the sequence C. 100 A. n+1 D. 110 B. 2n+1 E. 90 C. 3n+1 D. 4n+1 27. If the diagonals of a guadruplet are equal then the quadruplet is a 20. The length of a rectangle is 3 times its A. square width. If the width of the rectangle is 5 B. parallelogram inches, what is the rectangle's area, in C. rhomboid square inches? D. trapezoid A. 15 E. rectangle B. 20 C. 30 28. The sum of four powers of g starting D. 75 from power 0 is 85. Then q = ?A. 2 B. 3 21. What is the slope of the line 4x = -3y +C. 4 8 A. 4 D. 5 B. -3/4 E. 6 C. -4/3 D. 8 Amount 3 6 9 12 15 18 (₩) No. of 22. The length of a rectangle is 3 times its 3 9 6 15 3 12 width. If the width of the rectangle is 5 students inches, what is the rectangle's area, in square inches? A. 15 29. What is the mode in the above table B. 20 A. ₩3 C. 30 B. ₩6 D. 75 C. ₦9 D. ₩12 23. If 1.56x = 2, then x = E. ₩15 A. ln 1.56 / ln 2 B. ln 2 / ln 1.56 30. Find the median of the distribution C. 2 / In 1.56 A. ₩3.00 D. ln 2 / 1.56 B. ₩9.00 C. ₩12.00 24. A machine valued at ₦20, 000 D. ₩15.00 depreciates by 10% every year. What will be E. ₩18.00 the value of the machine at the end of two 31. Factorize: 3a² – 11a + 6 vears? A. ₦16, 200 A. (3a–2) (a–3) B. ₩14, 000 B. (2a-2) (a-3) C. ₩12, 000 C. (3a-2) (a+3) D. ₦16, 000 D. (3a+2) (a-3) E. (2a-3) (a+2) 25. $x^3 - 2x^2 + 4x - 8 = 0$ if x = ?A. 4 32. The number of telephone call N between B. 8 two cities A and B varies directly as the C. 2 population PA, PB in A and B respectively

and inversely as the square of the distance D between A and B. which of the following 41. There are four visitors in a party. There equations represents this relation? are two tables with two seats each. In how A. N = $kp_a/d^2 + cp_n/d^2$ many different ways can these quests sit B. N = KP_AP_n / D² down? C. N = kDP_AP_B A. 16 D. N = $kDP_A + CDP_B$ B. 24 E. N = kD^2P_ABB C. 20 D. 12 33. In a soccer competition in one season, a E. 18 club had scored the following goals: 2, 0, 3, 3, 2, 1, 4, 0, 0, 5, 1, 0, 2, 2, 1, 3, 1, 4, 1 42. What is the modal goal scored and 1. The mean, median and mode are A. 0 respectively B. 1 C. 2 A. 1, 1.8 and 1.5 B. 1.8, 1.5 and 1 D. 5 C. 1.8, 1 and 1.5 44. The value of $3/2 \times 10/21 \times 4/22 \times 77/5 =$? D. 1.5, 1 and 1.8 A. 5 35. $x^5 - 3x^4 + 4x - 12 = 0$ if x = ?B. 1/5 A. 4 C. 2 B. 3 D. 7 C. 2 D. -8 45. tan $x + \cot x = ?$ A. sin 2x 37. If opposite sides of a quadruple are B. 2/sin 2x C. 1/cos 2x equal then it is a A. square D. cos 2x B. trapezoid 47. $(6\sqrt{3})^{12})^{1/2} = ?$ C. parallelogram D. rhomboid A. 9 E. no such quadruple B. 3^{1/2} C. 3 38. The sum of even numbers from 12 to 18 D. 27 is A. 80 48. Express 0.00562 in standard form B. 40 A. 5.62 x 10⁻³ C. 70 B. 5.62 x 10⁻² D. 60 C. 5.62 x 10^2 E. 90 D. 5.62 x 10³ 39. The sum of powers of 3 starting from 49. If 32x = 27, Find x power 2 is 117. Then the number of added A. 1 powers is B. 1.5 A. 4 C. 4.5 B. 2 D. 18 C. 3 D. 5 50. The population of a village is 5,846. E. 1 Express this number to three significant figures 40. What is the relationship between 2ab A. 5850 and a+b where a, b are numbers? B. 5846 A. 2ab \geq a+b C. 584 B. 2ab < a+bD. 585 C. 2ab \neq a+b D. 2ab = a+b53. Simplify $\log 4_{10} + \log 25_{10}$ E. 2ab > a+bA. 3

B. 1

C. 2

D. 4

No. of goals	0	1	2	3	4	5
No of matches	3	5	7	4	1	0

54. What is the mean goal scored in the table above?

A. 0.75

B. 1.75

C. 1.9

D. 2

55. $\frac{(1/4 - 1/5)/(1/3 - \frac{1}{4}) \times (1/2 - 1/3)}{(1 - 1/5) \times S} = ?$ A. 2 B. 1/6 C. 1 D. 4 E. 3

56. \$1, 000,000.00 is put for 4% yearly interest for three years with the interest added at the end of each year to the base. At the end of the three years the money will be A. \$1, 122,416.00

B. ₩1, 124,864.00 C. ₩1, 241,232.00 D. ₩1, 422,232.00 E. ₩1, 441,122.00

57. Joe gets ₦40.00 to buy erasers for ₦5.00 each, pencils for ₦7.00 each and rulers for ₦8.00 each so that minimum number of items are bought and all the money is spent, then the number of pencils bought is

A. 6

- B. 3
- C. 2
- D. 1 E. 4
- L.4

58. $\log ax^2 - c \log ax = 0$ then c A. 4 B. 3 C. 5 D. 2 E. -3 59. $x^3 - 3x^2 + 4x - 12 = 0$ if x = ?

59. $x^3 - 3x^2 + 4x - 12 = 0$ if x = ?A. 4 B. 8

C. 2

E. -4 61. Given that y = px + q and y = 5 when X = 3, while y = 4 when x = 2 find the values of p and q A. p= 1, q=3 B. p = 1, q = 2 C. p = -2, q = 3 D. p = 3, q = -2 62. If $y - \frac{3}{2} < 2y - \frac{1}{3}$, which of the following is true?

A. y > 7 B. y < -7 C. y > -7 D. y < 7

D. 3

63. A boy estimated his transport fare for a journey as ₦190 instead of ₦200. Find the percentage error in his estimate.

- A. 95%
- B. 47.5%
- C. 5.26%
- D. 5%

64. The value of $3/2 \times 10/21 \times 7/5 = ?$ A. 5

- B. $\frac{1}{5}$
- C. 1
- D. 7

65. There are three boys and three girls in a party. In how many different ways can they dance?

- A. 12
- B. 6
- C. 9 D. 8
- D. 8

66. If a sweet cost ₦2.00, a chocolate costs ₦3.00 and a cake costs ₦5,00 then buy from each item at least one and as many items as possible from N20.00. The number of sweets you by then is

- A. 10
- B. 6
- C. 8
- D. 6

68. log xlog x = 1 where log x = log10 x. Then x = ? A. 10 or ¹/₁₀ B. 0 C. 2 D. 3 69. If the elements of a series are 1, 2, 3, 5,
8, 13 ... then the next element is
A. 22
B. 19
C. 16
D. 21

70. log 27 x = ? A. 2log9 x B. 3log3 x C. 2log6 x D. 2log3 x

ANSWERS TO MATHEMATICS 2011/2012 QUESTIONS

D 2. B 3. D 4. B 5. D 6. A 7. C 8. D 9. B
 D 11. D 12. D 13. D 14. D 15. C 16. C
 A 18. C 19. B 20. D 21. D 22. D 23. B
 A 25. C 26. C 27. E 28. C 29. D 30. C
 A 32. B 33. B 34. D 35. B 36. A 37. C
 B 46. D 47. C 48. A 49. B 50. D 51. A
 B 53. C 54. B 55. C 56. B 57. C 58. D
 D 60. B 61. B 62. C 63. D 64. C 65. B
 C 67. C 68. A 69. D 70. B

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2014/2015 UNICAL POST UTME QUESTIONS

ENGLISH LANGUAGE

Choose the correct preposition to fill the blank spaces

- 1. She wore a hat____blue shirt
- A. on
- B. with
- C. in
- D. within
- 2. The accident_____the bridge was not serious
- A. on
- B. in
- C. up
- D. at
- 3. The child seemed afraid_____the noise
- A. by
- B. at
- C. of
- D. with

Choose that is correctly spelled from the following

- 4. A. enbarass
- B. embarras
- C. embarrass
- D. enbarras
- 5. A. mispeled
- B. mispeled
- C. mispelled
- D. misspelled
- 6. A. ressind
- B. rescend
- C. reccind
- D. rescind
- 7. A. yeild
- B. yield
- C. yeld
- D. yild

Choose the correct plural form of the following underlined words

- 8. <u>Mouse</u>:
- A. mouses
- B. muses

- C. mice
- D. mices
- 9. Passer-by:
- A. passer-bys
- B. passers-bys
- C. passers-by
- D. passer-by
- 10. <u>Corps</u>:
- A. corpes
- B. corps
- C. corpses
- D. corpsses
- 11. <u>Hero</u>:
- A. heros
- B. heroses
- C. heroin
- D. heroes

Choose the correct degree of comparison that best fills the blank space

- 12. Amaka is the _____ girl in the house
- A. clumsiest
- B. clumsier
- C. clumsy
- D. clumser
- 13. We arrived at the airport_____
- A. earlier
- B. earliest
- C. early
- D. earlest
- 14. My potato chips are_____than yours
- A. crisp
- B. crisper
- C. crispest
- D. crispiest

Choose the option opposite in meaning to the underlined word

15. His bad choices in life made failure inevitableA. preventableB. sureC. effectiveD. possible

16 The principal is a quintesceptial example	3. If $\cos \theta = a^2 - b^2/2ab$, find $\csc \theta$
16. The principal is a <u>quintessential</u> example	
of a responsible leader	A. $a^2 - b^2/ab$
A. enviable	B. $(a^2 + b^2)^2/2ab$
B. sole	C. a ² + b/ab
C. best	D. $2ab/a^2 + b^2$
D. worst	
17. Politician should not say things that are	PHYSICS
inimical to the stability of the nation	
A. helpful	1. Which of the following is not a
B. hopeful	
•	measurable parameter of sound?
C. harmful	A. intensity
D. disagreeable	B. pressure
	C. reflection
Choose the word that best completes	D. loudness
each of the following sentence	
J	2. A target of 100m from a gun and the
18. This is not antime to travel	nozzle speed is 400m/s. what angle of
	projection will ensure a hit?
because lectures are going on	
A. audacious	A. 5°
B. intended	B. 1°
C. auspicious	C. 7°
D. authentic	D. 6°
19. Roger was afraid to stay in his small	3. In walking across a carpet, you'll acquire
prison cell because of his	a net negative charge of 100u
A. homophobia	C. How many excess electrons does y have?
B. claustrophobia	A. 5.2×10^{14}
C. gynophobia	B. 6.2×10^{14}
D. pedophobia	C. 6.2×10^{20}
20. The site of each little deal	D. 5.2 x 10 ²⁰
20. The site of crash littered with dead	×
bodies presented asight	4. An ammeter has an internal resistance of
A. deadly	10hms and a full scale of deflection of
B. hasty	100mA. What value of resistance will be
C. pleasant	required to make the ammeter measure
D. grisly	800mA?
5 ,	A. 1.43ohms
	B. 1.0ohms
MATHEMATICS	C. 0.430hms
1. Which of the following statement Is not	D. 2.43ohms
true?	
$A. A \cap U = A$	
B. $A \cap U = A$	CHEMISTRY
· · · · · · · · · · · · · · · · · · ·	
$C. A \cap O = O$	 Allotropes of an element differ in their
D. $A \cap A = A$	A. chemical properties
	B. mass number
2. The following are the scores of 10	C. electronic configuration
students in a test of 20 marks; 15, 16, 17,	D. physical properties
13, 16, 8, 5, 16, 19, 17. What is the modal	
score?	2. The stop of an element V has two
A. 19	2. The atom of an element X has two
B. 15	electrons in its outermost shell. What is the
C. 16	formula of the compound formed when X
	combines with aluminium?
D. 13	A. AIX ₂
	B. Al ₂ X

C. Al₂X₂ D. Al₂X₃

3. Which of the following compound is readily soluble in water?

- A. CuO
- B. AgCl
- C. Na₂SO₄
- D. CaCO₃

4. Calculate the mass of $ZnSO_4$ produced when excess $ZnCO_3$ is added to $500cm^3$ of 4.00M of H_2SO_4 [ZnSO4 = 161gmol⁻¹] A. 0.200g B. 32.2g

- C. 1.29g
- D. 39.0g

BIOLOGY

- 1. The following are examples of
- poikilothermic animals except____?
- A. lizards
- B. Birds
- C. snakes
- D. frogs
- 2. The biological function of CO_2 , H_2O and NH_3 from dead plant and animal tissues by the activities of micro-organisms is called ?
- A. petrification
- B. nitrification
- C. denitrification
- D. nitrogen fixation

3. The centre in the mammalian brain that is responsible for temperature regulation is ?

- A. cerebrum
- B. cerebellum
- C. diencephalon
- D. hypothalamus

4. When the body fluid of an organism has the same concentration as that of the external medium. Such medium is said to be____?

- A. hypotonic
- B. hypertonic
- C. isotonic
- D. osmotic

INFORMATION AND COMMUNICATION TECHNOLOGY – ICT

- 1. The computer system is made up of units
- A. 4
- B. 7
- C. 3
- D. 2
- 2. What is the value of 64_{10} in binary?
- A. 100000₂
- B. 110000₂
- C. 10000₂
- D. 1100001_2

3. What are the components of a computer system?

- A. hardware and software
- B. CPU and monitor
- C. RAM and ROM
- D. disk and RAM
- 4. Choose which of these is a computer system type
- A. google
- B. hybrid
- C. RAM
- D. main frame computer

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ANSWERS TO 2014/2015 QUESTIONS

ENGLISH LANGUAGE

1. B 2. D 3. A 4. B 5. D 6. B 7. B 8. C 9. C

10. B 11. D 12. A 13. C 14. B 15. A 16. D

17. A 18. C 19. B 20. D

MATHEMATICS

1. B 2. C 3. C

PHYSICS

1. B 2. D 3. D 4. No correct option

CHEMISTRY

1. C 2. C 3. C 4. A

BIOLOGY

1. B 2. B 3. D 4. D

INFORMATION AND COMMUNICATION TECHNOLOGY – ICT

1. A 2. D 3. A 4. D

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2015/2016 UNICAL POST UTME QUESTIONS

-	
ENGLISH LANGUAGE Choose the correctly spelt word from the following 1. A. achivement B. achevement C. achievement D. acheivement 2. A. hight B. hait C. height D. haght 3. A. risind B. rescind C. recind D. riscend 4. A. wholly B. wholy C. wohly	 8. Under the caste system, it is not befitting to marryone's social class A. behind B. in C. from D. beneath 9. The drumming drove the dancersa frenzy A. toward B. into C. with D. inside 10. Mr. Ugbong livethe street A. by B. In C. at D. up Choose the comparative that correctly fills the blanks
•	
D. hwolly	11. Adie is one of thestudents in his
Choose the word that is closest in meaning to the underlined word 5. His statement are <u>admissible</u> as evidence in court A. faulty B. inconclusive C. false D. acceptable	class A. smart B. smartest C. smarter D. smartier 12. Mr. Emeka is slightlythan Mr. Okoro A. crazy B. craziest
6. To say the last, Janet's behaviour is <u>infantile</u> A. crazy B. bullish C. childish D. mature	C. crazier D. crazily 13. In terms of importance, he was the_ A. least B. less
 7. The senator is still <u>relishing</u> his victory at the polls A. enjoying B. pondering C. dissatisfied D. surprised Choose the preposition that correctly fills the blanks	 C. lesser D. little Choose the correct plural form of the following words 14. Valley A. valles B. valleyses C. valles D. valleys
	1

15. SynopsisA. synopsisesB. synopsisC. synopsesD. synopes	student chosen at random offers both physics and chemistry A. ¼ B. 3/5 C. ¾ D. 1/3		
16. Studio A. studia B. studios C. studioes	23. If $y = 2(\sqrt{x^2 + M})/3N$, make X the subject of the formula		
 D. studum Choose the option that is opposite in meaning to the underlined word 17. The candidate's claims about his campaign manager were <u>spurious</u> 	 24. PQR is an equilateral triangle with sides 2√3cm. calculate its height A. 1.7cm B. 3.2cm C. 3.9cm D. 3.0cm 		
A. false B. true C. honest	BIOLOGY		
 D. dishonest 18. The business tycoon was surprised that I <u>spurned</u> his love advances A. accepted B. rejected C. enjoyed D. despised 	 25. The following are examples of animals in the phylum-Mollusca except? A. snail B. earthworm C. periwinkle D. blam 26. In a plant, the tissues responsible for 		
Select the correct phonetic transcription for the listed words 19. Flay A. /flai/ B. /flei/ C. /floi/ D. /floa/	conducting water and mineral salts from the soil to different parts of the plants are? A. xylem B. cambium C. parenchyma D. sclerenchyma		
20. Hiss A. /his/ B. /hi:s/ C. /hiss/ D. /hes/	27. Meiosis is a type ofA. cell divisionB. respirationC. movement in cellsD. living thing		
MATHEMATICS 21. Find the quotient if $x^4 - y^4$ is divided by $x^2 + y^2$ A. $x + y$ B. $(x - y)(x + y)$	 28. The two basic types of ecosystem are_and? A. forest and desert B. grasslands and farmlands C. freshwater and marine ecosystem D. terrestrial and aquatic ecosystem 		
D. $(x - y)(x + y)$ C. $x^2 - y$ D. $y^2 - x^2$	CHEMISTRY 29. An endothermic reaction is one during		
22. A class of 15 students, the students offers either physics or chemistry or both. If 11 students offer physics and 9 offers chemistry, what is the probability that a	which heat is? A. absorbed B. adsorbed		

C. liberated D. complexed

30. The solubility in mol/dm³ of 40g of CuSO₄ dissolved in 100cm³ of water at 180° is? [Cu = 64, S = 32, O = 16] A. 0.25 B. 1.25 C. 2.00

D. 2.5

31. A researcher added a measured amount of HCL gas to pure water at 25 °C and obtained a solution (H) = 3.0×10^{-4} . What was the pH of the solution? A. 3.5 B. 3.0 C. 4.0

D. 1.0

32. Which of the following cannot be obtained by fractional distillation of petroleum?A. ethaneB. methane

- C. hydrogen
- D. butane

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2015/2016 POST UTME SCREENING ANSWERS

ENGLISH LANGUAGE

1. C 2. C 3. B 4. A 5. C 6. C 7. A 8. C 9. B 10. B 11. B 12. C 13. A 14. A 15. C 16. B

17. B 18. A 19. B 20. A

MATHEMATICS

21. D 22. D 23. $X = \sqrt{9N^2Y^2 + 4M/2}$ 24. D 25. D 26. A 27. A 28. D 29. A

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2017/2018 UNICAL POST UTME QUESTIONS

Answer all questions	C. to come D. I hadn't come
 The principal was not awarethe visitors on their arrival. A. to have met B. that he should have met C. that he met D. to meet the visitors on their arrival 	9. John felt sorrythe poor people who hadn't enough to eat. A. for B. because C. of D. that
 2. John was glad A. were the exams over B. the exams were over C. the exams to be over D. at the exams which over 	10. Mary was unablethe work in time. A. she completed B. she couldn't complete C. complete D. not to complete
 3. Patrick was afraid A. whether he had failed B. to have failed C. he has failed D. he had failed 	 11. Mr. Olayinka was delighted A. you to come B. that you came C. you not to come D. did you come
 4. Patrick was wrong A. he contradicted the teacher B. to contradict the teacher C. contradicted the teacher D. to be contradicted the teacher 	12. Food pricesa lot since last year. A. have gone up B. had gone up C. went up D. go up
 5. Doing snippets of work' each day is notanyone. A. very satisfactory B. really satisfactory to very C. really very satisfactory to D. very really satisfactory to 6. At last the aircraft was able to take off. Itfor two hours by a fault in the 	 13. The Romans oncemost of Europe and North Africa for many years. A. have ruled B. had been ruling C. rule D. ruled 14. Eze has not heard anything of his sister
electrical system. A. bas been delayed B. delayed C. had been delayed D. is delayed	Ada since sheto the United Kingdom. A. has gone B. had gone C. had been going D. went
 7. Mr Momohhard for many years before he got promotion. A. had been worked B. had been working C. has worked D. has been working 	15. Everyone lookedto peter to give a lead. A. to B. out C. up D. at
8. I am sorryto the meeting last night.A. not comeB. I didn't come	16. Everyone lookedPeter as their leader A. at B. on

C. for D. the number of molecules increases with D. up temperature 17. Mary would never have finished her 24. An astronomical telescope is said to be homework if Patrick hadn't helped her in normal adjustment when the A. eye is accommodated A. in B. with B. focal length of the objective lens is longer C. out than that of the eye pie D. off C. final image is at the near point of the eye D. final image is at infinity 18. John spent hours looking his dictionary, he couldn't find it. 25. Which of the following parts of a cell is A. at living? A. cell wall B. in C. for B. calcium oxalate D. to C. food vacuole D. mitochondria 19. Everyone looked ______to Peter as a great leader 26. Cells without an organized nucleus are A. up called B. down A. heterokarvote C. on B. eukaryote D. for C. prokaryote D. synkaryote 20. At the beginning of the period, the geography master fired a series of 27. The sites for energy transfer within a cell question about South East Asia are known as A. Golgi apparatus A. up B. on B. parenchyma C. away C. mitochondria D. off D. nucleolus 21. A 12V battery supplying a current of 20A 28. Food and dissolved oxygen pass from was used to melt 1.5kg of ice at 0°c. the water directly into the amoeba by a calculate the time required if the latent heat process called of fusion of ice is 336×10^{1} J/kg A. transport B. diffusion A. 35.0 min B. 3.5 min C. fission C. 76 min D. transpiration D. 21.0 min 29. Which one of these functions is not 22. The light from the sun reaches the earth performed by the nervous system? A. receive sensory input from internal and mainly by A. convection external environment B. conduction B. digestion C. radiation C. integration D. reflection D. response to stimuli 23. One valid assumption of the kinetic 30. In man, gas exchange occurs in the_____ theory of gases is that: A. heart B. white blood cells A. the molecules are in random motion and the number of collision is constant C. lungs B. the number of molecules increases with D. kidney the pressure C. the molecules of the gas are all identical 31. Find the identity element of the set S under the binary Operation * defined by and are very small in size

a*b = 2ab

neutrons and 10 electrons is a

A. negative atom ion

38. A particle that contains 9 proton, 10

A. -1/2 B. 1 C. 0 D. ½ E. -1 32. Differentiate $y = 7x^4 \cos x - 5$ with respect to x. A. $28x^4 + \sin x$ B. 28x⁴ - cos x C. $28x^3 - \sin x$ D. 28x - sin x E. 28x⁵ - sin x 33. Find the value of n if 30 x (${}^{n}C_{5}$) = ${}^{n}P_{4}$. A. 5 B. 2 C. 3 D. 6 E. 8 34. What value of x satisfies the equation: $3^{2x+3} - 3^{x+2} - 3^{x+1} + 1 = 0$ A. (-2, -1) B. (2, 1) C. (-2, 1) D. (1/9, 1/3)E. (0, 1) 35. What is the quotient and remainder when x + 2 divides $2x^2 - 3x + 2$? A. (x + 2, 16)B. (x + 2, 2x - 7) C. (2x - 7, 16) D. (2x + 7, 16)E. (2x + 7, 16)36. 25cm³ of a gas x contains z molecules at 15°C and 75mmHq. How many molecules will 25cm of another gas y contain at the same temperature and pressure? A. 2y B. 2z C. z D. y 37. What mass of water is produced when 8.0g of hydrogen reacts with excess oxygen? A. 36.0g B. 8.0q C. 72.0q D. 16.0q (H = 1, O = 16)

B. positive ion C. neutral atom of a non-metal D. neutral atom of metal 39. Cancerous growths are cured by exposure to A. γ-rays B. β-rays C. α -rays D. x-rays 40. An oxide XO_2 has a vapour density of 32. What is the atomic mass of x? A. 32 B. 20 C. 14 D. 12 2017/2018 POST UTME SCREENING ANSWERS 1. C 2. B 3. C 4. B 5. C 6. B 7. C 8. B 9. A 10. C 11. B 12. C 13. D 14. D 15. C 16. B 17. C 18. C 19. A 20. B 21. D 22. D 23. D 24. B 25. D 26. B 27. C 28. D 29. B 30. C 31. D 32. C 33. E 34. A 35. C 36. C 37. C 38. A 39. D 40. A

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2018/2019 UNICAL POST UTME QUESTIONS

Identify the word closest in meaning to the ones underlined.

- 1. I woke up feeling rather <u>queer</u>.
- A. fine
- B. strange
- C. strong
- D. tired

2. If he <u>declines</u> the offer, it will be better for him.

- A. ignores
- B. denies
- C. Snubs
- D. rejects
- 3. Our club encourages benevolence.
- A. affluence
- B. sincerity
- C. Charity
- D. association

4. Such utterances are <u>inimical</u> to the peaceful co-existence of the two communities.

- A. unhelpful
- B. unimportant
- C. harmful
- D. useless

Choose the word(s) opposite in meaning to the underlined word(s)

5. Our government is making <u>determine</u> efforts to eradicate illiteracy

- A. compulsory
- B. ineffective
- C. innocent
- D. unreliable

6. Nnamdi Azikiwe University has a large intake of student each year

- A. rejection
- B. product
- C. furiously
- D. turn-out
- 7. Rita flogged the girl reluctantly
- A. eagerly
- B. calmly
- C. furiously
- D. laboriously

8. The judge blamed the <u>plaintiff</u> for misleading the court

- A. defendant
- B. complaint
- C. accused
- D. prosecution

9. The demonstrators have refused to <u>call</u> off their action

- A. consolidate
- B. start
- C. resume
- D. end

10. The policemen was asked to <u>investigate</u> the matter

- A. ask about
- B. forget about
- C. examine
- D. inquire about

Choose the words or phrases which best fill(s) the gap(s)

11. There's_____ventilation in this room; that's why you don't breathe well

- A. few
- B. little
- C. a few
- D. a little

12. Whenever he puts the light on, someone ______to disturb him.

- A. came
- B. has come
- C. comes
- D. would come

13. It_____be taken for repair after all; it's working again

- A. couldn't
- B. shouldn't
- C. mightn't
- D. needn't

14. The visit of the patron of the club _____ the words of the players.

- A. elated
- B. induced
- C. boasted
- D. boosted

15. The man advised his children not to give _____to the temptations of the city.

A. off A. Bromine B. up B. Oxygen C. in C. Sodium D. Fluorine D. out E. Potassium 16. _____were sent to the library by the English teacher. 24. Which of the following chemicals is most A. I and Udoh commonly used as a bleaching agent? B. Udoh and me A. sodium hypochlorite C. Udoh and I B. alcohol C. chloroform D. myself and Udoh D. benzene 17. You're not too tired to continue_ ? E. potassium hydroxide A. are you B. isn't it 25. The process of converting starch to C. can't you ethanol is known as: D. is it A. distillation B. cracking C. fermentation 18. Hardly had the journey started _____ D. oxidation the engine developed a fault. A. that E. hvdrolvsis B. when C. than 26. What is the percentage of sulphur in D. soon sulphur (IV) oxide. (mass of S = 32, O = 16)A. 66% 19. The principal was not aware the visitors on their arrival B. 50% C. 25% A. to have met B. that he should have met D. 40% E. None of the above C. that he met D. to meet the visitors on their arrival 27. A 10g mass placed on the pan of a 20. John was glad spring balance causes an extension of 5 cm. A. were the exams over if a 15g mass is placed on the pan of the B. the exams were over same spring balance the extension is____ C. the exams to be over A. 3.3 cm B. 6.5 cm D. at the exams which over C. 7.5 cm 21. The process by which complex organic D. 10.8 cm molecules is broken down to simpler forms E. 15.0 cm to release energy stored in them is known 28. The force with which an object is as A. anabolism attracted to the earth is it's A. acceleration B. commensalism C. photosynthesis B. mass D. catabolism C. gravity E. symbiosis D. weight E. momentum 22. The number of moles present in 1kg of solvent is called its: 29. A train has an initial velocity of 44m/s and an acceleration of -4m/s², its velocity A. molality B. molarity after 10s is C. normality A. 2m/s D. formality B. 4m/s E. none of the above C. 8m/s 23. The most electronegative element in the D. 12m/s E. 16m/s following is:

38. If $sin(x + 30)^\circ = cos 40^\circ$, find x.

A. 10° B. 20°

C. 59°

D. 65° E. 80°

30. A man of mass 50kg ascends a flight of stairs 5m high in 5 seconds. If the acceleration due to gravity is 10m/s², the power expended is A. 500W B. 400W C. 250W D. 200W E. 100W 31. Longitudinal waves do not exhibit A. refraction B. reflection C. diffraction D. polarization E. disaggregation 32. The unit of quantity of electricity is called A. amperes B. the volt C. the coulomb D. the ammeter 33. The stream of water (H_2O) up the plant is known as A. transpiration stream B. translocation stream C. xylem stream D. osmosis stream 34. Transport of sugars and amino acids in plants is called its A. Transportation B. transpiration C. trans motion D. translocation 35. The more the hydrogen peroxide (H_2O_2) in urine, the A. lighter the colour of the strip B. the acidic the urine be C. darker the colour of the strip D. more healthier a person be 36. Hydrogen peroxide (H₂O₂) A. helps line up cell proteins B. is poisonous to tissues C. is often needed as a catalyst D. aids in oxidation of alucose 37. The nature of rennin is slightly_____ A. Acidic B. alkaline C. water based

D. mineral based

39. Find the 9th term of the arithmetic, progression, 18, 12, 6, 0, 6 A. -54 B. -30 C. 30 D. 42 E. 54 40. Solve the equation: $\frac{4}{a} + \frac{1}{5a} = 3$ A. 2½ B. $\frac{12}{5}$ C. $\frac{11}{3}$ D. $\frac{14}{15}$ E. $\frac{24}{5}$

2018/2019 POST UTME SCREENING ANSWERS

B 2. D 3. C 4. C 5. B 6. D 7. A 8. A 9. C
 B 11. B 12. B 13. D 14. A 15. C 16. C
 A 18. B 19. C 20. B 21. D 22. B 23. D
 A 25. C 26. B 27. C 28. C 29. B 30. A
 D 32. C 33. A 34. D 35. C 36. B 37. A
 B 39. B 40. B

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