

ABU ZARIA POST UTME PAST QUESTIONS AND ANSWERS

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FOR SCIENCES, MEDICINE, & ENGINEERING 2009-TILL Date

2017/2018 POST-UTME

SCREENING EXERCISE

Time allowed: 1 hour

Read the following instructions carefully:

1. Use HB pencil to shade your answers.

Ensure that any shading in error is thoroughly erased.

2. Candidates should indicate the question Paper Type given to them in the appropriate space in the Answer Sheet.

3. Write your JAMB registration numbers on the question paper in the space provided at the top of page 1.

4. Attempt all questions.

5. The use of calculator and or similar electronic devices is NOT allowed

ENGLISH

1. An autobiographical novel is _____.
 - A. A novel written about another novelist
 - B. A true account of a novelist's life by himself
 - C. A novel in which the novelist draws mainly on materials from his own life
 - D. A novel using the 'I' pronoun

2. Plot in prose fiction is best defined as:
 - A. The cause and - effect sequence of events
 - B. The brief summary of events
 - C. The central event
 - D. The subject - matter of a novel

3. Which of these is not true about unity of action in a novel?
 - A. Action may be unified through a single main character
 - B. Action may be unified by being set in one place
 - C. Action maybe unified by many characters
 - D. Action may be unified by having one consistent point of view

4. Action in a novel is best defined as:

- A. The summary of the novel's story
- B. What the characters do or say in the novel
- C. The numerous sub - plots of the novel put together
- D. The totality of all the episodes in a novel leading to the conclusion

5. Suspense in a novel means _____.

- A. the postponement of the hero's death till the last possible moment
- B. the intense emotions that the author conveys
- C. the inconclusive end of a novel
- D. when we are curious about what happens next in a novel

6. A realistic novel is one in which the characters are _____.

- A. real
- B. historic
- C. just of above average intelligence
- D. the types that we meet in everyday life

7. Theme is best defined as:

- A. The subject matter of a novel or play
- B. central idea in a play or novel

- C. The point of view in that novel
- D. The sum - total of all the characters experiences

8. What figure of speech does the following quotation contain? Life's but a walking

shadow (Macbeth) A. A metaphor

B. An image

C. A synecdoche

D. An allusion

9. Which of the following statement is most true about poetry?

A. the meaning of words is more important than their sounds

B. the sounds of words are more important than their meanings

C. the sound of words is often more important than their meanings

D. sounds and meanings of words are of Little consequence

10. Which of these bests define exposition in drama?

A. the author's own general introduction to the play

B. the author's early exposure of his dramatis

personae to conflict

- C. introduction to the characters and the general problem with which the play deals
- D. the first performance of the play on stage

11. When the speaker in a poem cannot be identified with the poet, that speaker is called:

- A. a persona
- B. a dramatist persona
- C. a soliloquist
- D. a ventriloquist

12. Which of these definitions best describes a lyric?

- A. A short poem
- B. a short poem in which the poet himself is speaking
- C. a poem expressing a personal idea, feeling or mood
- D. a poem divided into stanzas

Read the following extract from a poem to answer questions 13 and 14.

Among rocks, I am the loose one, among
arrows, I am the heart among daughters, I
am the recluse, among sons, the one who
dies young

13. What kind of repetition is used in the extract?

- A. anaphora
- B. single word repetition
- C. line repetition
- D. phrase repetition

14. Apart from emphasis, what other effect does the repetition have?

- A. makes the poem rhythmical
- B. makes the poem tedious
- C. makes the poem monotonous
- D. makes the poem exhilarating

15. The following line from poem Western wind, when will thou blow? Is an example of:

- A. rhetorical question
- B. caesura
- C. alliteration
- D. nature imagery

16. Identify the odd one out of these types of imagery.

- A. visual imagery
- B. tactile imagery
- C. synaesthesia

D. literal imagery

17. When a poet uses mainly soft vowel sounds in a poem, the texture of the poem is:

A. mellifluous

B. harsh

C. assonantal

D. neutral

18. The sounds in the following lines may be described as an example of: The moan of doves in immemorial elms, and murmuring of innumerable bees

A. Alliteration

B. Euphony

C. Cacophony

D. A mixture of all above

19. The man dies in him who keeps silent in the face of tyranny". This statement can be described as:

A. Metaphoric

B. Literal

C. Tragic

D. a simile

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20. The literary technique in which a reader is

taken to the past of a current action is known

as:

- A. rewinding
- B. fast-forward
- C. flashback
- D. repetition

PHYSICS

21. A piece of rubber 1 Dem long stretches 6mm when a load of 100N is hung from it
What is the area stretched if the young modulus is 50N/m²

- A. 60m²
- B. 150 m²
- C. 33.33 m²
- D. 15 m²

22. To determine the weight of an object you would ____.

- A. use a balance
- B. use a spring balance
- C. find the force necessary to give it a certain acceleration
- D. use none of these methods
- E. use any of these methods

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23. A gas at pressure P_N/m and temperature 27°C is heated to 77°C at constant volume.

The new pressure is _____.

- A. $0.85P_N/m$
- B. $0.86P_N/m$
- C. $1.16P_N/m$
- D. $1.18P_N/m$
- E. $2.85P_N/m$

24. Two lamp rated 40w and 220w , each are connected in series. The total power dissipated in both lamps is _____.

- A. 10w
- B. 20w
- C. 40w
- D. 80w
- E. none

25. A magnet is moved through a coil of wire.

The emf produced in the wire depends on _____.

- A. the number of turns in the coil
- B. the strength of the magnet
- C. the speed at which the magnet is moved
- D. all of the above

E. none of the above

26. A potential difference of 6v is used to produce a current of 5A for 200s through a heating coil. The heat produced is _____.

A. 4800cal

B. 6000cal

C. 2400j

D. 240kcal

E. 600j

27. Two boys are communicating with each other by stretching a string passing through a hole punched in the bottom of each of the two tin cans. The physical principle employed is that sound travels

A. mainly through air

B. fainter in stretched string

C. faster through gasses than in solids and liquids

D. with greater ease through a string than in air

E. none of the above is correct

28. The hatch door of a submarine has an area of 0.5 m²

. The specific gravity of sea

water is $1.03 \times 10^3 \text{ N/m}^3$. Assume that $g = 10 \text{ m/s}^2$ and neglect the atmospheric pressure. The force exerted by the sea water on the hatch door at a depth of 200m is

- A. $1.03 \times 10^5 \text{ N}$
- B. $1.03 \times 10^4 \text{ Nm}^2$
- C. $2.6 \times 10^3 \text{ Nm}^2$
- D. $2.06 \times 10^{11} \text{ N}$
- E. $1.03 \times 10^3 \text{ N}$.

29. When equal weights of iron and water are subjected to an equal supply of heat, it is found that the piece of iron becomes much hotter than water after a short time because _____.

- A. The specific heat of iron is higher than water
- B. Iron is in solid form
- C. water is in liquid form
- D. the specific heat of water is higher than that of iron
- E. the specific heat of iron is infinite

30. The speed of light in air is $3.0 \times 10^8 \text{ m/s}$. its speed in glass having a refractive index of 1.65 is _____.

- A. $1.82 \times 10^8 \text{ m/s}$

- B. $3 \times 10^8 \text{m/s}$
- C. $6.0 \times 10^8 \text{m/s}$
- D. $1.82 \times 10^2 \text{m/s}$

BIOLOGY

31. Which of the following is an excretory organ in flatworms?

- A. Malpighian tubules
- B. Kidney
- C. Nephridium
- D. flame cells

32. Which of the following is not an excretory organ in mammals?

- A. Anus
- B. Liver
- C. Lung
- D. Skin

33. Which of the following is not freshwater?

- A. Brackish water
- B. Puddle
- C. Pond
- D. River

34. Which of the following is a special organ

for oxygen absorption in aquatic animals?

- A. Air bladder
- B. Lung
- C. Spiracle
- D. Gills

35. Which of the following is not a feature of Marshes?

- A. High oxygen content
- B. Water-logged soil
- C. Low light intensity
- D. Abundant saprophytic bacteria

36. Drought resistant plants are called?

- A. Hydrophytes
- B. Xerophytes
- C. Mesophytes
- D. Bryophytes

37. Primary succession on a terrestrial habitat is associated with _____.

- A. Bare soil
- B. Abandoned farmland
- C. Primary forest
- D. Secondary forest

38. Which of the following may not result in

overcrowding?

- A. Limited space
- B. Scarcity of food
- C. Increased birth rate
- D. Tight immigration conditions

39. Which is the function of mitochondria? A.

Gives cell rigid shape B. Site for energy release

- C. Manufactures protein
- D. Contains cell sap

40. Which is not a feature of animal cells?

- A. Presence of centrosome
- B. Absence of cell wall
- C. Presence of few, small vacuoles
- D. Presence of plastids

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CHEMISTRY

41. Which of the following in a molar solution would be the product conductor of electricity?

- A. ammonia
- B. sodium chloride
- C. hydrochloric acid
- D. zinc tetraoxosulphate (VI)

42. How many moles of oxygen atoms are presented in 4.0g of the gas. (O= 16)

- A. 0.25
- B. 0.50
- C. 1.00
- D. 4.00

43. In the periodic table, the entire element within the same group has the same

- A. atomic number
- B. number of electrons in the nuclei of their atoms
- C. number of electron available for bonding
- D. number of isotopes

44. How many atoms are there in 0.3mole of an element? {Avogadro's constant = 6.0×10^{23} }

- A. 2.0×10^{24}
- B. 1.8×10^{24}
- C. 1.8×10^{23}
- D. 3.0×10^{22}

45. Milk exposed to air for a few days tastes sour due to the presence of ____.

- A. ethanoic acid
- B. Citric acid
- C. lactic acid
- D. tartaric acid

46. A substance which produces the hydroxonium ion as the only positive ion when dissolved in water is

- A. an acid
- B. an acid salt
- C. a normal salt
- D. a base

47. Petrol can be obtained from fuel oil by A. hydrolysis

- B. Hydrogenation
- C. Dehydration
- D. cracking

48. Which of the following is not true of metals?

- A. they are good conductors of heat and electricity
- B. they are ductile and malleable
- C. their oxides are basic
- D. they can be used as insulators

49. Which of the following is not a property of chlorine?

- A. it is greenish yellow and has a choking smell
- B. it bleaches litmus paper
- C. it is a liquid at room temperature and pressure
- D. it has a higher density than air

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50. If calcium has atomic number 20 and mass number 40, the constituent of the atom is _____.

- A. 20 protons, 10 neutrons and 10 electrons
- B. 20 protons, 20 neutrons and 20 electrons
- C. 20 protons, 20 neutrons and no electrons
- D. 10 protons, 10 neutrons and 20 electrons

ANSWERS TO ABU 2017/2018

POSTUTME EXAM

ENGLISH

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

PHYSICS

21. C 22. B 23. C 24. E 25. A 26. B 27. D

28. E 30. A

BIOLOGY

31. D 32.A 33.D 34. B 35.A 36. 37. 38. D

39. B 40

CHEMISTRY

41. D 42.A 43. C 44.C 45.A 46.A 47. D 48. D

49. C 50.B

2015/2016 POST-UTME SCREENING EXERCISE

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ENGLISH

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COMPREHENSION PASSAGE

Tony spends most of in spare time at his medium-sized farm located on the fringes of the capital City along Okigwe road, the farm haven for the lover of retreat. It occupies an undulating land, which stretches for a good distance. The farm enjoys a modest canopy formed by palm trees, banana branches and coconut trees.

The barbed wired fence bends harmoniously with the surrounding lush of the green foliage. There on the heart of the farm. Tony raises small animals that include rabbits, goats and pigs. He ensures that animals particularly the pigs that form the main Naira earners are always in peak condition This Tony does by seeing to it that they receive then regular clinical attention Similarly, they always insist that the pens are cleaned and sanitized.

Not surprisingly, the droppings from the animals are constantly carted away by enthusiastic farmers. They believe that the application should significantly boost their own harvest.

This in part explains why there has been a good hassle for the droppings from Tony's farm. In some other ways, the patronage is emblematic. Some of the farmers simply earn through their inner thought to make a statement.

Whenever Tony is out of his station, the manager follows religiously the strictly gamine already established.

1. The second sentence suggests that Tony's farm is good ____.

- A. for religious camping and meditation
- B. for escaping from city noise
- C. as a rendezvous for layers
- D. as a location for serious meeting

2. From the description of the farm and surrounding,

3. "They received their regular clinical

attention" This means that

- A. the animals are taken to the clinic regularly
- B. the animals are under constraint observation
- C. the animals are given regular vaccination
- D. the animals have a doctor at the clinic

4. The farmers who use animal droppings from Tony's farm think that _____.

- A. their harvest will increase
- B. their crops will remain healthy
- C. their farm will be inexpensive
- D. their farm will be a model

5. Tony's farm manager can be described as _____.

- A. a good imitator
- B. a religious person
- C. a sympathetic individual
- D. a responsible worker

In question 6 and 7, an idiom is underlined in each of the sentences, find under each sentence the group of words that gave the nearest meaning to the idiom.

6. He killed the goose that laid the golden egg

when he decided to spend his capital on buying a car.

- A. sacrificed future profit to satisfy present needs
- B. was bad natured
- C. became a poor person
- D. became an important person

7. I laughed up my sleeve as he told the tales of his exploits.

- A. was very pleased
- B. was openly making fun of him
- C. was secretly amused
- D. laughed myself helplessly

In questions 8 and 9, choose the word or set of words that best fit the meaning of the sentence as a whole.

8. _____ the long run, we will make enough profit.

- A. In
- B. On
- C. At
- D. For

9. The congregation all sorts and conditions

of men

- A. composes
- B. consists
- C. comprises
- D. conjectures

In questions 10 and 11, select the option that is nearest in meaning to the underlined word.

10. The effect of the new policy on the masses is rather negligible.

- A. unimportant
- B. useful
- C. insignificant
- D. negligent

11. When I returned to the cyber cafe a week later, my ticket had become invalid.

- A. inappropriate
- B. crippled
- C. discounted
- D. out of date.

In question 12 and 14, choose from the options given in A-D the one which is opposite in meaning to the word.

12. An expert will not be found waiting in this type of job hunting.

- A. A foreigner
- B. a jobber
- C. An applicant
- D. A novice

13. If you are not for lesbianism, it means you are for.

- A. celibacy
- B. homosexuality
- C. nun hood
- D. heterosexuality

14. The chairman's verdict redressed the injustice meted out by the secretary.

- A. corrected
- B. aggravated
- C. restored
- D. addressed

Interpretation:

15. My friend gambled about all day yesterday This means that he _____.

- A. was gambling with his money yesterday

B. did nothing useful yesterday

C. played cards for money

D. was jumping in the field.

From the words or group of words

lettered A-D, choose the option that is

most nearly opposite to the underlined

words

16. Our grandmother was very much loved

for her altruism.

A. benevolence

B. selflessness

C. kindness

D. selfishness

17. The principal lost his usual good humour

when his school was defeated in this year's

cowbell mathematics quiz competition.

A. provoked

B. kept

C. maintained

D. obtained

18. Nkoli was the one who politely declined

the invitation.

A. turned off

B. turned away

C. accepted

D. received

19. We quickly realized that a confrontation was inevitable.

A. disastrous

B. unavoidable

C. desirable

D. conditionally

20. Obiora's name was inadvertently omitted.

A. unfortunately

B. improperly

C. intentionally

D. conditionally

D. conditionally

CHEMISTRY

21. In the reaction between sodium hydroxide and sulphuric acid solutions. what volume of 0.5molar sodium hydroxide would exactly neutralize 10 cm³ of 1.25molar sulphuric acid?

A. 5cm³

B. 10cm³

C. 20cm³

D. 25cm³

E. 50cm³

22. A small quantity of solid ammonium chloride (NH₄Cl) was heated gently in a test tube. The solid gradually disappears to produce a mixture of two gases later a white cloudy deposit was observed on the cooler part of the test tube. The ammonium chloride is said to have undergone

A. distillation

B. sublimation

C. precipitation

D. evaporation

E. decomposition

23. Elements P, Q, R, S have 6, 11, 15, & 17 electrons respectively. Therefore,

A. P will form an electrovalent bond with R

B. Q will form a covalent bond with S C. R will form an electrovalent bond with S

D. Q will form an electrovalent bond with S

E. Q will form a covalent bond with R

24. An element X forms the following compounds with chlorine NCl₄, XC₃, XC₂ this illustrates the

- A. law of multiple proportions
- B. law of chemical proportions
- C. law of simple proportion
- D. law of conservation of mass
- E. law of definite proportion

25. The oxidation state of chlorine in potassium chlorate is _____.

- A. 11
- B. 12
- C. 13
- D. 15
- E. 17

26. When carbon dioxide is bubbled into limewater, a white precipitate is formed. If the passage of the gas is continued, the precipitate disappears. The reasons for this is _____.

- A. calcium carbonate is formed which on reaction dissolves
- B. calcium hydrogen carbonate is precipitated and then dissolves
- C. calcium carbonate is formed which on reaction with further carbon dioxide forms soluble calcium hydrogen carbonate
- D. concentration of solution has occurred with

the deposition of calcium hydroxide

E. the solution has become saturated and solid carbon dioxide has been deposited

27. The following reactions are stages in important industrial processes

(i) $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightleftharpoons 2\text{NH}_3(\text{g})$ ΔH is negative

(ii) $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightleftharpoons 2\text{SO}_3(\text{g})$ ΔH is negative

(iii) $\text{N}_2(\text{g}) + \text{O}_3(\text{g}) \rightleftharpoons 2\text{NO}(\text{g})$ ΔH is positive.

Which of the above forward reactions is favoured by

(i) a decrease in the concentration of the pressure and

(ii) an increase in temperature?

A. i

B. ii

C. iii

D. i & ii

E. i & iii

28. Methanoic acid mixes with water in all proportions and has about the same boiling point as

water. Which of the following methods would you adopt to obtain pure water from a mixture of sand, water and methanoic acid A.

fractional distillation

- B. filtration followed by aevastivation
- C. neutralities with sodium hydroxide followed by distillation.
- D. neutralization with sodium hydroxide followed by filtration
- E. etherification with ethanol followed by distillation

29. Which of the following statements applies during the electrolysis of sodium hydroxide solution using platinum electrodes?

- A. anions are discharge at the cathode
- B. hydrogen ions are discharge at the anode
- C. the concentration of sodium hydroxide decreases at both electrode compartments
- D. the concentration of sodium hydroxide increases at the cathode only

E. the concentration of sodium hydroxide increases at the anode only

30. Which of the following statement is true?

When the potassium atom forms its ion

- A. it gains one electron and becomes neutral
- B. its atomic number decreases
- C. it achieves electronic configuration of argon

- D. it loses one proton
- E. it loses one neutron.

PHYSICS

31. The slope of a straight-line displacement time graph indicates ____.

- A. distance travelled
- B. uniform velocity
- C. uniform acceleration
- D. instant acceleration
- E. uniform speed

32. A ball of mass 0.5kg moving at 10m/s collides with another ball of equal mass at rest. If the two balls move off together after the impact, calculate their common velocity

- A. 0.2m/s
- B. 0.5m/s
- C. 10m/s
- D. 3m/s

33. How much heat is given out when a piece of iron mass 50g and specific heat capacity 460Jkg⁻¹K⁻¹

-1 cools from 85°C to 25°C?

- A. 1.38×10^6

J

B. 2.53×10^2

J

C. 1.98×10^4

J

D. 1.38×10^3

J

E. 1.27×10^3

J

34. Which of the following is not a suitable method of reducing loss of heat from a piece of hot iron?

A. wrapping it in cotton wool

B. painting it black

C. placing it in a vacuum

D. placing it in a rubber support

E. keeping it in a closed wooden box

35. A bat emits a sound wave at a speed of 1650.00 m/s and receives the echo 0.15 s later. Calculate the distance of the bat from the reflector

A. 8.75 m

B. 16.60 m

C. 87.75 m

D. 123.75 m

E. 330.00m

36. Which of the following is/are characteristics of sound?

i. pitch

ii. Loudness

iii. Quality

iv. Noise

A. i only

B. ii only

C. i & ii only

D. i, ii & iii only

E. I, ii, iii and iv

37. An image which can be formed on a screen is said to be _____.

A. virtual

B. blurred

C. inverted

D. erect

E. real

38. A ray of light is incident at an angle of 30° on a glass prism of refractive index 1.5. Calculate the angle through which the ray is minimally deviated in the prism (the medium surrounding the prism is air)

- A. 10.5°
- B. 5.5°
- C. 21.1°
- D. 38.9°
- E. 40.5° .

39. At which of the following distances from the lens should a slide be placed in a slide projector if the focal length of the projection lens?

- A. less than f
- B. greater than $2f$
- C. greater than f but less than $2f$
- D. equal to f
- E. equal to $2f$

40. What of the camera corresponds to the iris of the eye?

- A. shutter
- B. film
- C. lens
- D. diaphragm
- E. focusing ring

BIOLOGY

41. The nucleus is considered the control

organelle of a cell because it ____.

- A. Contains the genetic material
- B. Contains the nuclear sap
- C. is bounded by the nuclear membrane
- D. is located at the centre of the cell

42. Regulation of blood sugar level takes place in the ____.

- A. pancreas
- B. Ileum
- C. Liver
- D. Kidney

43. The heart of the adult frog consists of ____.

- A. two auricles and two ventricles
- B. one auricle and one ventricle
- C. two ventricle and two auricles
- D. one ventricle and two auricles

44. A group of organisms of different species living in a particular area is described as a ____.

- A. colony
- B. community
- C population
- D. niche

45. A freshwater plant such as water lily can so live the problem of buoyancy by the possession of ____.

- A. parenchymatous tissue
- B. dissected leaves
- C thin cell walls of the epidermis
- D. water repelling epidermis

46. Soil micro-organisms are beneficial because of their involvement in

- A. photosynthesis B. translocation
- C. cycling of nutrients
- D. respiration using soil air

47. One of the ways in which body eel ls differ from gamete cells is in the ____.

- A. type of centromeres they contain
- B. number of chromosomes pair they contain
- C. type of chromatids they contain
- D. number of chromosomes they contain

48. In the blood transfusion. agglutination occurs when ____.

- A. white blood eel ls from two individuals meet
- B. two different antibodies meet

- C. two different antigens meet
- D. contrasting antigens and antibodies meet

49. The richest sources of vitamin A are

_____.

- A. palm oil and groundnut oil
- B. palm oil and carrots
- C. rice and groundnut oil
- D. oranges and carrots

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50. Yellowing of leaves is a symptom associated with deficiency of _____.

- A. iron, calcium and magnesium
- B. nitrogen, sulphur and potassium
- C. sulphur, phosphorous and iron
- D. magnesium, nitrogen and iron

ANSWERS TO ABU 2015/2016 POST

UTME

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

CHEMISTRY

21. E 22. B 23. D 24. A 25. C 26. C 27. C
28. B 29. B 30. C

PHYSICS

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

38. B 39. C 40. D

BIOLOGY

41. A 42. A 43. D 44. B 45. A 46. C 47. B

48. D 49. B 50. B

2014/2015 POST-UTME SCREENING

Time allowed: 1 hour

ENGLISH

Choose the correct option to fill the
blank spaces.

1. The guest _____ breakfast by the time the
bus arrives.

A. shall have finished

b. have finished

C. had finished

D. are finishing

2. You can go on I _____ what you are

saying.

- A. will understand
- b. an understanding
- C. understanding
- D. waste understanding

3. When he was knocked on the head, he fell
___ to the ground.

- A. fainted
- B. Unconscious
- C. collapsed
- D. noisily

4. It so ___hard that all the cars have
stopped moving

- A. will rain
- B. rained
- C. rain
- D. rains

5. The principal will be going away on leave,
in his absence the vice-principal will _____
school.

- A. overlook
- B. take over
- C. look after
- D. care for

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Choose the word that is nearly opposite
in meaning to the underlined word.

6. The able-bodied should take care of the
_____.

- A. feeble
- B. weak-minded
- C. Suffering
- D. soft-hearted

7. The chairman ordered him either to
withdrew or to _____ his allegations

- a. affirm
- B. drew
- C. express
- D. complete

8. He shows plenty of goodwill to his
neighbours, but they bear nothing except
_____towards him.

- A. bad luck
- B. malice
- C. anger
- D. unhappiness

9. I supported what you said but I ___ the

way you said it

- A. argued about
- B. objected to
- C. interfered with
- D. investigated

10. Though many of us were poor quite a few were _____.

- A. arrogant
- B. Prodigal
- C. Affluent
- D. Luxurious

MATHEMATICS

1. A fair coin is tossed ten times. What is the probability of getting at least two heads?

A. $\frac{513}{1024}$

B.

$\frac{615}{1024}$

C.

968

/1024

D. $\frac{1011}{1024}$

2. A man bought 220 mangoes at ₦5x. he

sold each for 3x kobo and made a gain of ₦8.

Find the value of x

- A. 2
- B. 5
- C. 10
- D. 6

3. Calculate the sum of infinity of

- 1
- 1
- 3
- \pm
- 1
- 9
- 1

27

- A. 0.33
- B. 0.67
- C. 1.5
- D. 2.5

4. If $P \subset C$, then n can be ____.

- A. 1
- b. 2
- C.
- 3

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/2

D. 3

5. Express $\tan 22\frac{1}{2}^\circ$ in the surd form

A. $\sqrt{2}-2$

B. $1-\sqrt{2}$

C. $\sqrt{2}-1$

D. $\sqrt{2}+1$

6. If $\sin(x-a) = \cos(x+a)$, then $\tan x$ is

A. 0.8

B. 0.75

C. 1.0

D. 6.28

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7. Simplify 110113

A. 101003

B. 11002

C. 11103

D. 10112

8. A binary operation $*$ is defined on \mathbb{R} , the

set of real numbers by $xy = \sqrt{XY} = \sqrt{YX}$ for all X, Y

ER. If $X*(2*8)=6$, find x

A. 2

B. 4

C. 9

D. 10

9. Find the mean deviation of 5,8 ,7 and 2.

A. 0

B. 2

C. 5

D. 10

10. The volume of two similar solid cubes are

729cm³ and 512cm³

. Find the ratio of their

lengths

A. 4:3

B. 9:7

C. 3:2

D. 9:8

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PHYSICS

1. Which of the following is not true about semi-conductor?

A. moving holes are equivalent to moving positive charges

B. there are two kind of charges carrier; free electron and hole

C. the escape of a valence electron from an atom produces electron holes pair of charge

carrier

D. Increase in temperature increases its electrical resistance

2. The minimum energy necessary to remove an electron from a given atom at infinity is called _____.

- A. excitation
- B. ground state energy
- C. ionizing energy
- D. binding energy

3. Find the de Broglie wavelength of a 0.01 kg pallet having a velocity of 10m/s and energy: 663×10^{34} js

- A. 6.63×10^{31} m
- B. 6.63×10^{-32} m
- C. 6.63×10^{-33} m

4. A set-up transformer is designed to operate from a 25v supply. If the transformer is 80% efficient, determine the current in the primary coil when the output terminals are not connected to 240v 100w lamp

- A. 5.0A

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B. 4.0 A

C. 2.5 A

D. 2.0 A

5. An object of mass 0.2 kg and density

600 kg m^{-3}

is suspended with a string so that it

is immersed in paraffin of density 900 kg m^{-3}

.

Find the tension in the string

A. 0.2 N

B. 2.0 N

C. 1.0 N

D. 0.1 N

6. A rocket burns fuel at the rate of 20 kg s^{-1}

and eject it with a velocity of $5.0 \times 10^3 \text{ m s}^{-1}$

.

Calculate the thrust exerted by gas on the

rocket.

A. $1.0 \times 10^5 \text{ ms}^{-1}$

B. $2.0 \times 10^5 \text{ ms}^{-1}$

C. $3.0 \times 10^5 \text{ ms}^{-1}$

D. $5.0 \times 10^5 \text{ ms}^{-1}$

7. Which of the following pairs consist

fundamental quantities only?

- A. velocity and gravitational potential
- B. acceleration and field strength
- C. momentum and work done
- D. moment and mass.

8. One of the limitations of Thomson's model of the atom is that it does not explain.

- A. Small angle
- B. stability of the atom
- C. ionization process
- D. the variation of the effective atomic radius

9. A wire carrying a current of 10A and 2.5m length is placed in a field of flux density 0.14T. what is the force of the wire if it is placed at 60° to field?

- A. 30.3N
- B. 20.5N
- C. 15.3N
- D. 10.5M

10. In the transformer, the magnetism of the core is repeatedly reverse by the magnetic field resulting in energy as heat. The loss is called _____.

- A. Eddy current

- B. hysteresis loss
- C. flux linkage
- D. joule heating loss

BIOLOGY

1. In bird. the following feathers possess after shaft

- A. Quill and filo plumes
- B. Down and filo plumes
- C. Covert and down
- D. Quill and covert

2. The nutritive layer of the eye in mammals is ____.

- A. refracting media
- B. conjunctiva
- C. Cornea
- D. Sclera

3. Ultra-filtration in the Kidney takes place in the ____.

- A. Bowman's Capsule
- B. Pelvis
- C. Loop of Henle
- D. Proximal Convolved Tubule

4. Which of the following bones is not a component of the fore limb?

- A. Olecranon
- B. Ulna
- C. Tibia
- D. Humerus

5. The condition in which the anthers mature before the stigma is called ____.

- A. protandry
- B. Epigyny
- C. Hypogyny
- D. protogyny

6. In most true ferns, sporangia are grouped into ____.

- A. indusium
- B. fronds
- C. sori
- D. Prothallis

7. The ratio of carriers to suckers in the F₂ generation derived from a parental cross of two carriers of haemoglobin S gene is ____.

- A. 3:1
- B. 1:3
- C. 2:1

D. 1:2

8. In which part of a leguminous plant can bacteria like Azotobacterial be found?

- A. Spongy mesophyll
- B. Root nodes
- C. stem internodes
- D. Stem nodes

9. In a dicotyledonous stem, companion cells are found close to the ____.

- a. Endodermal cells
- B. Silver tubes
- C. Xylem vessels
- D. Pericyclic fibres

10. The position occupied by an organism in a food chain is referred to as ____.

- A. Trophic level
- B. Niche Level
- C. Energy level
- D. feed level

CHEMISTRY

1. Natural water include the following except

_____.

- A. Rain water
- B. Spring water
- C. pure water
- D. Lake water

2. Which of the following methods cannot be used to remove permanent hardness from water?

- A. Adding of washing soda
- B. addition of caustic soda
- C. perunit method
- D. adding alum to water

3. If the solubility of sodium tetraoxosulphate (IV) at 30°C is 18g per 100g How much is this gram per kilogram?

- A. 18g per 100g
- B. 180g per 100g
- C. 180g per 1000g
- D. 180g per mg

4. The following are example of colloid except

_____.

- A. Milk
- B. starch in water
- C. aerosol
- D. ammonium chloride solution

5. The pH of the solution M, N, O, and P are 4,6,8 and 10 respectively. Therefore

- A. none of the solution is acidic
- B. the pH of the O made neutral by adding water
- C. the most acidic solution is P
- D. Mis the most acidic solution

6. Sodium chloride may be obtained from brine by _____.

- A. detection
- B. distillation
- C. evaporation
- D. sublimation

7. Oil spillage in pond and creek can be cleared by _____.

- A. Burning of the oil layer
- B. spraying with detergent
- C. spraying with common salt
- D. spraying with oil

8. Which of the following is a chemical compound?

- A. Soap
- B. milk

C. urine

D. gold

9. Crystallization is a separation method used

_____.

A. where purity of the product is important

B. Where beauty of the product is important

C. where the product is a solid

D. where the product cannot be destroyed by heat

10. Which hydroxide dissolves in water to form an alkaline

A. Aluminium hydroxide

B. Calcium hydroxide

C. Copper hydroxide

D. Iron hydroxide

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ANSWERS TO ABU POST UTME

2014/2015

ENGLISH

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

10. C

MATHEMATICS

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

10. D

PHYSICS

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

10. B

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BIOLOGY

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

10. A

CHEMISTRY

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

10. –

2013/2014 Post-UTME SCREENING

Time allowed: 1 hour

Answer all questions: shade the answer sheet

as appropriate with HB pencil only

CHEMISTRY

1. A mixture contains 20cm³ of hydrogen, 35cm³ of oxygen, 15cm³ of carbon dioxide and 10 cm³ of nitrogen at S.T.P which of the following gives the mole fraction of hydrogen in this mixture?

- A. 0.02
- B. 0.16
- C. 0.20
- D. 0.25
- E. 2.0

2. 0.07g of a hydride of carbon occupies 56 at S.T.P when vaporized and contains 14.29% by mass of hydrogen. The formula of the hydrocarbon is

- A. CH₄
- B. C₂H₂
- C. C₂H₄
- D. C₂H₆
- E. C₃H₈

[C = 12, H = 1]

3. The pressure on 100cm³ of oxygen gas at 35°C is 750mm of Hg. What would be the volume of the gas if the pressure is increased to 1000mm of Hg without changing the

temperature?

- A. 133.3 cm³
- B. 85 cm³
- C. 75 cm³
- D. 65 cm³
- E. 58 cm³

4. Which of the following bonds exist in crystalline ammonium chloride (NH₄Cl)?

- A. ionic and covalent
- B. ionic and co-ordinate
- C. ionic, covalent and co-ordinate
- D. covalent, co-ordinate and metallic
- E. ionic, covalent and metallic

5. Which of the following is a neutralization reaction? Addition of ____.

- A. nitric acid to hydrochloric acid
- B. nitric acid to sulphuric acid
- C. acid to distilled water
- D. nitric acid to sodium hydroxide
- E. sodium chloride to distilled water

6. In the preparation of carbon monoxide by heating ethanoic acid with concentrated sulphuric acid, the concentrated sulphuric acid acts as ____.

- A. oxidizing agent
- B. reducing agent
- C. dehydrating agent
- D. reaction medium
- E. catalyst

7. How many grams of methyl acetylene (propyne) $\text{CH}_3\text{-C}\equiv\text{CH}$ will completely discharge the colour of 8g of bromine? (Br = 80, C = 12, H = 1)

- A. 0.5
- B. 1.0
- C. 2.0
- D. 3.0
- E. 4.0

8. Brass is an alloy containing copper and _____.

- A. zinc
- B. tin
- C. aluminium
- D. silver
- E. lead

9. 60 cm³ of hydrogen are sparked with 20 cm³ of oxygen at 100°c and 1 atmosphere. The total volume of the residual

gases is ____.

- A. 60 cm³
- B. 10 cm³
- C. 40 cm³
- D. 30 cm³
- E. 70 cm³

10. If the rate of diffusion of oxygen gas is taken as 1, what will be the rate of diffusion of methane whose relative molar mass is 16?

- A. 2.0
- B. 1.8
- C. 1.4
- D. 1.0
- E. 0.5

USE OF ENGLISH

In each of questions 11 to 20, choose the word(s) or phrase(s) which best fill(s) the gap(s)

11. The sea wave continue to ____ the cliff on the west coast constantly.

- A. impair
- B. rub
- C. knock
- D. erode

12. The college bus was traveling at a high___when the accident occurred.

- A. velocity
- B. acceleration
- C. rapidity
- D. speed

13. Note that only senior members of staff have the___ of using the toilet upstairs.

- A. permission
- B. occasion
- C. privilege
- D. habit

14. The chief priest will ___the main into the cut today.

- A. indoctrinate
- B. usher
- C. convert
- D. initiate

15. Obi is noted for his___ attitude to his seniors at school.

- A. receptive
- B. Respectful
- C. respective

D. respectable

16. The girl that my brother introduced to us last week is pretty ____ ill-mannered.

A. and

B. but also

C. as well as

D. respectable

17. The police report was ____to that of the eye witness.

A. contrary

B. inconsistent

C. different

D. congruent

18. The African extended family system gives security to ____members.

A. his

B. her

C. its

D. their

19. I know I ____read more but I am tired.

A. may

B. ought to

C. would

D. could

20. Insects can become ____to insecticides

A. immunized

B. resistant

C. Reticent

D. immobilized

PHYSICS

21. Which of the following is a scalar quantity?

A. momentum

B. acceleration

C. displacement

D. distance

E. force

22. What change in velocity would produce a body of mass 4kg if a constant force of 16N acts on it for 2s?

A. 0.5m/s

B. 2.0m/s

C. 8.0m/s

D. 32.0m/s

E. 128.0m/s

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23. A body accelerates uniformly from rest at the rate of 3m/s^2 for 8s. Calculate the distance covered by the body during the acceleration.

- A. 12m
- B. 24m
- C. 48m
- D. 72m
- E. 96m

24. Which of the following has the same unit as the moment of a force?

- A. force
- B. power
- C. Work
- D. momentum
- E. charge

25. Which of the following will reduce the frequency of oscillation of a simple pendulum?

- A. increasing the mass of the bob
- B. decreasing the mass of the bob
- C. increasing the length of the string
- D. decreasing the length of the string
- E. increasing the amplitude of oscillation

26. A barometer can be used in determining the length of a

- i. mountain
- ii. Depth of a mine
- iii. Dew point.

Which of the following is/are correct?

- A. i, ii, iii
- B. ii and iii only
- C. i and iii only
- D. i and ii only
- E. iii only

27. Which of the following colours of surfaces will radiate heat energy best?

- A. red
- B. white
- C. black
- D. yellow
- E. blue

28. A gas which obeys Charles law exactly has a volume of 283cm^3 at 10°C . What is its volume at 30°C ?

- A. 142 cm^3
- B. 293 cm^3
- C. 303 cm^3

D. 566 cm³

E. 849 cm³

29. A real image of an object formed by a converging lens of focal length 15cm is 3 times the size of the object. What is the distance of the object from the lens?

A. 30cm

B. 25cm

C. 20cm

D. 15cm

E. 10cm

30. How far from a cliff should a boy stand to hear the echo of his clap 0.9s later? (speed of sound in air = 330m/s)

A. 36.67m

B. 74.25m

C. 148.50m

D. 297.00m

E. 366.67m

MATHEMATICS

31. Find n if $34n = 100112$

A. 5

B. 6

C. 7

D. 8

32. The radius of a circle is given as 5cm subject to an error of 0.1 cm. What is the percentage error in the area of the circle?

A. 1

/25

B. 1

/4

C. 4

D. 25

33. What is the value of x satisfying the equation 4

$2x/4$

$3x = 2$

A. -2

B. -

1

/2

C. $\frac{1}{2}$

D. 2

34. If $x = 3 - \sqrt{3}$, find x

2

36

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x

2

A. 9

B. 18

C. 24

D. 27

35. Solve the equation $y^2 - 11y + 24 = 0$

$$y^2 - 11y + 24 = 0$$

A. 8, 3

B. 64, 9

C. 6, 4

D. 9, -8

36. A man invested a sum of ₦280.00 partly at 5% and partly at 4%. If the total interest is ₦12.80 per annum, find the amount invested at 5%.

A. ₦14.00

B. ₦120.00

C. ₦140.00

D. ₦160.00

37. Ice forms on a refrigerator ice box at the rate of 4.06 g per minute after 1 minute. If initially there were 2g of ice, find the mass of ice formed in 5 minutes

- A. 19.5
- B. 17.0
- C. 14.5
- D. 12.5

38. Obtain a maximum value of the function

$$f(x) = x$$

3

- 12x 11

- A. -5
- B. -2
- C. 2
- D. 27

39. Two perfect dice were thrown together.

Determine the probability of obtaining a total score of 8.

A. 1

/12

B. 5

/36

C. 1

/6

D. 7

/36

40. The probability of an event P is % while

that of another event Q is $\frac{1}{6}$

$\frac{1}{6}$. If the

probability of both P and Q is $\frac{1}{12}$, what is the

probability of either P or Q?

A. $\frac{1}{6}$

$\frac{1}{6}$

B. $\frac{1}{8}$

$\frac{1}{8}$

C. $\frac{5}{6}$

$\frac{1}{6}$

D. $\frac{11}{12}$

BIOLOGY

41. Which of the following organelles is used for locomotion in paramecium?

A. pseudopodium

B. irichocyst

C. cilium

D. pellicle

E. contractile vacuole

42. Which of the following is not true of the nucleus of a living cell? It contains ____.

A. Chromosomes

B. nucleus

C. nucleoplasm

D. chromatids

E. ribosomes

43. The cell membranes consists of ____.

A. carbohydrates and lipids

B. vitamins and proteins

C. lipids and proteins

D. water and sugar

E. starch and cellulose

44. Which of the following is not likely to be found in the cell of a ripe tomato fruit?

A. plastids

B. chlorophyll

C. cellulose cell wall

D. mitochondrion

E. mineral salts

45. Osmosis can be defined as diffusion of

A. atoms and molecules through a membrane

to an area of higher concentration B. water

molecules for a dilute solution to a

concentrated solution across a permeable

membrane

C. water molecules from area of high

concentration to an area of low

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concentration

D. water molecules from a dilute solution to a concentrated solution through a semi-permeable membrane

E. perspiration and excretion

46. The movement of diaphragm is a characteristic of gaseous exchange in _____.

A. insect

B. Fish

C. toad

D. mammal

E. plants

47. In cellular respiration, energy is stored in the form of _____.

A. adenosine diphosphate (ADP)

B. adenosine mono phosphate (AMP)

C. adenosine triphosphate (ATP)

D. heat energy

E. electrical energy

48. The medium in which dissolved nutrient are transported in the body of vertebrates is called _____.

A. latex

B. urine

- C. cell sap
- D. blood
- E. haemoglobin

49. Which of the following structures of the leaf contains air?

- A. guard cell
- B. palisade layer
- C. intercellular space
- D. vascular bundle
- E. upper epidermis

50. Which of the following organs is specially adapted for gaseous exchange in aquatic organisms?

- A. lungs
- B. trachea
- C. gills
- D. tracheoles
- E. Alveoli

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ANSWERS TO ABU POST UTME

2013/2014 EXAM

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

USE OF ENGLISH

11. D 12. D 13. A 14. D 15. D 16. B 17. A

18. C 19. B 20. B

PHYSICS

21. C 22. C 23. E 24. C 25. C 26. E 27. C

28. C 29. C 30. C

MATHEMATICS

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

38. D 39. B 40. C

BIOLOGY

41. C 42. D 43. C 44. B 45. D 46. D 47. C

48. D 49. C 50. C

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