

Federal University, Ndufu-Alike, Ikwo

# FUNAI

# POST-UTME

## Past Questions

[Science]

### Subjects:

- *English*                      *Current Affairs*                      *Physics*
- *Mathematics*                      *Biology*                      *Chemistry*

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## ENGLISH LANGUAGE

**Choose the word nearest in meaning to the underlined words.**

1. The accused student forged the signature on the cheque.

- A. copied
- B. drew
- C. signed
- D. imitated

2. James is afraid he could not put up with my untidiness any longer.

- A. cover
- B. correct
- C. condone
- D. endure

3. Humility is a personal quality hardly found nowadays.

- A. dignity

- B. dishonesty
- C. modesty
- D. imitation

4. Why do prices of commodities vary so often in Nigeria?

- A. rise
- B. fall
- C. change
- D. gallop

5. Our new class teacher is very brutal

- A. humane
- B. had
- C. mild
- D. cruel

6. I looked cheerless when I heard the ugly story.

- A. chair less
- B. careless
- C. merry
- D. sorrowful

**Which of the following options is the most appropriate to fill the gap?**

7. Janet is the \_\_\_\_\_ of the two ladies

- A. tallest
- B. taller
- C. more taller
- D. tall

8. Janet is the \_\_\_\_\_ in the class.

- A. tallest
- B. more taller
- C. most taller
- D. tail

9. The students did not know \_\_\_\_\_ University they were to visit.

- A. whose
- B. what
- C. who's
- D. which

10. The Provost was \_\_\_\_\_ that one of his best students stole the school money.

- A. angry
- B. offended
- C. surprised
- D. annoyed

## **BIOLOGY**

1. Viruses are regarded as non-living because they \_\_\_\_\_

- A. can neither reproduce asexually nor sexually
- B. cannot survive in their respective environments
- C. do not possess characteristics to the next generation
- D. can neither respire nor excrete

2. Which of the following pairs are fully adapted to terrestrial life?

- A. ferns and algae
- B. ferns and mosses
- C. bryophyte and flowering plants
- D. flowering plants and conifers

3. Which of these animals is radically symmetrical?

- A. squid
- B. hydra
- C. snail
- D. cockroach

4. Which of the following has cones?

- A. angiosperm
- B. gymnosperm
- C. pteridophyte
- D. bryophyte

5. For effective functioning of a bird's quill feather, it hooks firm on the ridges of the

- A. vane
- B. rachis
- C. barbules
- D. barbs

6. Which of the following is NOT true of spirogyra?

- A. reproduces by conjugation
- B. reproduces by fragmentation
- C. consists of branched filaments

D. consists of unbranched filaments

7. Which of the following lacks chaetae, tentacles and antennae?

- A. snail
- B. crab
- C. millipede
- D. earthworm

8. There is incomplete metamorphosis in the

- A. butterfly
- B. grasshopper
- C. mosquito
- D. housefly

9. Fishes are cold-blooded because their body temperature is

- \_\_\_\_\_
- A. constantly low
  - B. constantly high
  - C. dependent on that of their surroundings
  - D. regulated at will

10. When the original king and queen of termites dies, they are replaced by \_\_\_\_\_

- A. the king and queen of another colony
- B. some adult reproductive from the same colony
- C. some adult workers which are specially fed to breed
- D. developing nymphs nurtured as secondary reproductive.

## CHEMISTRY

1. Which of following metals cannot replace hydrogen from water or steam?

- A. sodium
- B. Magnesium
- C. Iron
- D. Calcium
- E. Copper.

2. Which of the following changes is physical?

- A. Adding iron fillings to aerated water
- B. Adding sodium metal water
- C. Cooling a solution of iron (II) sulphate to obtain the hydrated salt.
- D. Cooling malty lb, obtain ice
- E. Burning the gas for cooking

3. 0.1 Faraday of electricity was passed through a solution of copper (II) sulphate. The maximum weight of copper deposited on the cathode would be [Cu = 64]

- A. 64.0g
- B. 32.0g
- C. 16.0g
- D. 6.4g
- E. 3.2g

4. Bronze is an alloy of \_\_\_\_\_

- A. Copper, zinc and nickel
- B. Aluminium and copper
- C. Copper and zinc
- D. Tin and zinc
- E. Tin and copper

5. Starch can be converted to ethyl alcohol by

- A. Distillation
- B. Fermentation
- C. Isomerization
- D. Cracking
- E. Cooking

6. Pick out the correct statement

- A. Zinc heated to redness reacts with steam to give oxygen and zinc oxide
- B. Zinc heated to redness reacts with steam to give oxygen and hydrogen
- C. Zinc does not react with hot or cold water
- D. Zinc reacts with hot water to form zinc oxide and hydrogen
- E. Zinc reacts very easily with cold water to give zinc oxide and hydrogen

7. chlorine, bromine and iodine resemble each other in that all

\_\_\_\_\_

- A. dissolve in alkalis
- B. reacts violently with hydrogen without heating
- C. displace each other from solutions their salts
- D. are gases
- E. are liquids

8. When air is compressed, \_\_\_\_\_

- A. Its density decreases
- B. It solidifies
- C. Its temperature decreases
- D. Its temperature increases
- E. Its temperature remains unchanged.

9. Which of the following is formed when maltose reacts with concentrated tetraoxosulphate (vi) acid?

- A. Carbon (iv) oxide
- B. Coal tar
- C. Charcoal
- D. Toxic fumes
- E. None of the above

10. A property of a colloidal dispersion which a solution does not have is \_\_\_\_\_

- A. the Tyndall effect
- B. homogeneity
- C. osmotic pressure
- D. surface polarity

### PHYSICS

1. A catapult used to hold a stone of mass 500g is extended by 20cm with applied force F. If the stone leaves with a velocity of 40m/s, the value of F is \_\_\_\_\_

- A.  $4.0 \times 10^4\text{N}$
- B.  $4.0 \times 10^3\text{N}$
- C.  $2.0 \times 10^3\text{N}$
- D.  $4.0 \times 10^2\text{N}$

2. A handbag containing some load weighing 162N is carried by two students each holding the handle of the bag next to him. If each handle is pulled  $60^\circ$  to the vertical, find the force each student's arm.

- A. 324N
- B. 162N
- C. 121N
- D. 81N

3. I. The frictional force is independent of the area of the surfaces in contact

II. The frictional force depends on the nature of the surface in contact

III. The frictional force depends on the speed of sliding

IV. The frictional force is directly proportional to the normal reaction.

Which combination of the above is true of sliding friction?

- A. I, II and IV
- B. I, II and III
- C. I, III and IV
- D. II, III and IV

4. When a ship sails from salt water into fresh water, the fraction of its volume above the water surface will \_\_\_\_\_

- A. remain the same
- B. increase
- C. decrease
- D. increase then decrease

5. A simple pendulum has a period of 17.0s. When the length is shortened by 1.5m, its period is 8.5s; calculate the original length of the pendulum.

- A. 1.55m
- B. 2.0m
- C. 3.0m
- D. 4.0m

6. At a fixed point below a liquid surface, the pressure downward is  $P_1$  and the pressure upward is  $P_2$ . it can be deduced that\_\_\_\_\_

- A.  $P_1 = P_2$
- B.  $P_1 > P_2$
- C.  $P_1 < P_2$
- D.  $P_1 > P_2$

7. I. its velocity is constant  
II. no work is done on the body

III. it has constant acceleration directed away from the centre  
IV. The centripetal force is directed towards the centre.

Which combination of the above is true of a body in a circular track?

- A. I and III
- B. I and IV
- C. II and III
- D. II and IV

8. The velocity  $v$  of a particle in a time  $t$  is given by the equation  $v = 10t^2 + 2t$ . Find the instantaneous acceleration after 5s.

- A. 10m/s
- B. 15m/s
- C. 20m/s
- D. 60m/s

9. If the force and the velocity on a system are each reduced simultaneously by half, the power of the system is \_\_\_\_\_

- A. doubled
- B. constant
- C. reduced to a quarter
- D. reduced by half

10. The velocity ratio of a machine is 5 and its efficiency is 75%. What effort would be needed to lift a load of 15N with the machine?

- A. 50N
- B. 40N
- C. 30N
- D. 20N

## MATHEMATICS

1. A right pyramid on a base 6m square is 18m high. Find the volume of the pyramid

- A.  $1131\text{m}^3$
- B.  $678.6\text{m}^3$
- C.  $81.7\text{m}^3$
- D.  $339.3\text{m}^3$

2. The volume of a cylinder of radius 14cm is  $210\text{cm}^3$ . What is

the curved surface area of the cylinder?

- A.  $15\text{cm}^3$
- B.  $30\text{cm}^3$
- C.  $616\text{cm}^3$
- D.  $1262\text{cm}^3$

3. Convert  $448_6$  to denary

- A.  $476_{10}$
- B.  $764_{10}$
- C.  $176_{10}$
- D.  $112_{10}$

4. If the shadow of a pole 7m high is its length, what is the angle of elevation of the sun?

- A.  $90^\circ$
- B.  $63^\circ$
- C.  $60^\circ$
- D.  $26^\circ$

5. The bearing of a point x from a point y is  $74^\circ$ . What is the bearing of y from x?

- A.  $106^\circ$

B.  $148^\circ$

C.  $164^\circ$

D.  $254^\circ$

6. A varies inversely as the square root of B. if  $A = 1$  and  $B = 1/6$ , find B when  $A = 1/8$

A. 10.7

B. 15.6

C. 3.2

D. 4.6

7. The lengths of the sides of a right-angle triangle are  $(3x + 1)$ cm,  $(3x - 1)$ cm and  $x$ cm. Find  $x$ .

A. 0

B. 6

C. 18

D. 12

8. Given two sets  $x$  and  $y$ ,  $n(x) = 15$  and  $n(y) = 10$ . The universal set = 20. Find the value of  $n(A \cap B)$  (i.e. the smallest possible value).

A. 10

B. 6

C. 5

D. 7

9. The sum of the roots of a quadratic equation is  $5/2$  and the product of its roots is 4. The quadratic equation is \_\_\_\_\_

A.  $2x^2 + 5x + 8 = 0$

B.  $2x^2 - 5x + 8 = 0$

C.  $2x^2 - 8x + 5 = 0$

D.  $2x^2 - 8x - 5 = 0$

10. Find the range of the following fraction  $1/6$ ,  $1/3$ ,  $3/2$ ,  $2/3$ ,  $8/9$  and  $4/3$

A.  $5/6$

B.  $3/4$

C.  $4/3$

D.  $7/6$

# ANSWERS TO AE FUNAI 2018/2019 POST-UTME CBT QUESTIONS

## ENGLISH LANGUAGE

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

## BIOLOGY

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

## CHEMISTRY

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

## PHYSICS

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

## MATHEMATICS

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

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1. Which state in Nigeria did EBOLA First start?

- A. Lagos
- B. Kaduna
- C. Kano
- D. Calabar

2. Who discovered electricity?

- A. Andrew Ampere
- B. Faraday Michael
- C. Thomas Edison
- D. Benjamin Franklin

3. Simplify  $52.4 - 5.7 - 1.75$

- A. 34.5
- B. 44.95
- C. 50.45

4. Who was the first executive president of Nigeria?

- A. Alhaji Abubakar Tafawa Balewa
- B. Dr. Nnamdi Azikiwe
- C. Mohamaudu Buhari
- D. Alhaji Shehu Shagari

5. Which year was federal university of Ndufu Alike Ikwo was founded?

- A. 2011
- B. 2016
- C. 2015
- D. 2013

6. Which sentence is correct in the following

- A. You have come home so you help your mother in lime
- B. You have to come on time so as to help your mother
- C. You have to come and help your mother
- D. You has to come home on time so as to help your mother

7. Their father\_\_\_\_\_ when they were little.

- A. ran off
- B. ran upon
- C. ran up
- D. ran of

8. The man works in LONDON

- A. does the man work in Lagos?
- B. who works in London?
- C. does the man stay in London?
- D. does the man work for London?

9. The range of the data  $k+2$ ,  $k-3$ ,  $k+4$ ,  $k-2$ ,  $k-5$ ,  $k+3$ ,  $k-1$  and  $k+6$  is

- A. 9
- B. 11
- C. 7
- D. 8

10. Which country is Sydney located?

- A. Australian
- B. United States of America
- C. U.K
- D. New Zealand

### **Day 1 Answers**

- 1. A 2. D 3. B 4. D 5. D 6. A 7. A**  
**8. A 9. B 10. D**

1. The capital of Germany is \_\_\_\_\_.

- A. Bonu
- B. Berlin
- C. Hamburg
- D. Bremen

2. The first capital of Nigeria is \_\_\_\_\_.

- A. Calabar
- B. Lagos
- C. Abuja
- D. Kaduna

3. Mrs. Audu always talks carelessly.

- A. does she
- B. isn't she
- C. doesn't she
- D. didn't she

Choose the word nearest in meaning for the words underlined.

4. She is known for her bizarre dressing.

- A. Natural
- B. weird
- C. obsolete
- D. odious

5. The workers tightened their hold on the capital.

- A. they controlled the capital more strictly
- B. they held onto other workers in the capital.
- C. they tightened a rope round their capital
- D. they stretched their hold on the capital and beyond

6. Which geopolitical zone does Nasarawa state belong to ?

- A. North central
- B. South central
- C. South-south
- D. South east

7. The question that has no meaning is called \_\_\_\_\_.

- A. Rhetorical question
- B. Tautological question
- C. useless question
- D. meaningless question

8. Ebonyi state is known as \_\_\_\_\_ nation.

- A. salt
- B. coal
- C. peace
- D. none of the above

9. The largest ocean in the world is\_\_\_\_\_.

- A. Pacific Ocean
- B. Atlantic Ocean
- C. River Mississippi
- D. River Niger

10. Evaluate  $2700000 \times 0.03 \div 1800$

- A.  $4.5 \times 10$
- B.  $4.5 \times 10^1$
- C.  $4.5 \times 10^2$

D.  $4.5 \times 10^3$

### Day 2 Answers

**1. B 2. A 3. C 4. A 5. A 6. A 7. A**  
**8. A 9. A 10. A**

1. The different between  $4\frac{5}{7}$  and  $\frac{21}{4}$  is greater than the sum of  $\frac{1}{14}$  and  $1\frac{1}{2}$  by\_\_\_\_\_.

- A. 23/28
- B. 24/28
- C. 50/56
- D. 27/28

2. It\_\_\_\_\_ heavenly last night.

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

3. Who is the current minister of Agriculture in Nigeria

- A. Akinwunmi Adesina
- B. Audu Ogbeh
- C. Mohamed Duru
- D. all of the above

4. The capital of Australian is \_\_\_\_\_.

- A. Acton
- B. Casino
- C. Canberra
- D. Redo

5. A man travel 200km from a point with a velocity of 20hr, calculate the time taken.

- A. 2000 sec
- B. 10 sec
- C. 100 sec
- D. 10 hr

6. The first ceremonial president of Nigeria is \_\_\_\_\_.

- A. Alhaji Shehu Shagari
- B. Dr. Nnamdi Azikiwe
- C. Mohamed Buhari
- D. Ernest Shonekan

7. I have already the picture on the sitting-room wall.

- A. hanged
- B. hunged
- C. hang

D. hung

8. Two young boys have been caught with part of the stolen machine but \_\_\_\_\_ admitted stealing it.

- A. neither of them has
- B. neither of them have
- C. none of them has
- D. none of them have

9. In what year was Ebola discovered in Nigeria.

- A. 2011
- B. 2013
- C. 2014
- D. 2015

10. Who was the first vice-chancellor of federal university Ndufu Alike Ikwo.

### Day 3 Answers

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

## 2017/2018 FUNAI POST UTME QUESTIONS (Day 4)

1. The largest ocean in the world is \_\_\_\_\_.

- A. Pacific Ocean
- B. Atlantic Ocean
- C. River Niger
- D. Indian ocean

2. When did Nigeria celebrate their democracy?

- A. 1st October
- B. 27th May
- C. 28th June
- D. 29th May

3. Who is the Governor of Central bank of Nigeria

- A. Godwin Emefiele
- B. Solo Udo
- C. Lamido Sanusi
- D. Emeka Ike

4. A man saved ₦100 from his salary ₦5000 each year, and he added ₦20 to his savings. How

many years will it take to earn ₦58000

- A. 10 yrs. 3 month
- B. 11 years, 3 and half months
- C. 12yrs
- D. 15yrs

5. Which year was Federal University Ndufu Alike Ikwo was founded ?

- A. 2011
- B. 2012
- C. 2013
- D. 2014

6. Find x if  $\log 9^x = 1.5$

- A. 72.0
- B. 27.0
- C. 36.0
- D. 3.5

7. Nearest in meaning question: I can walk that distance and have done in many times.

- A. I am used to walk that distance
- B. I used to walk that distance
- C. I used to I walking that distance
- D. I am used to walking that distance

8. This picture is ASCRIBED to Leonardo da Vinci. This means that \_\_\_\_\_.

- A. Leonardo da Vinci did it
- B. Leonardo da Vinci might have painted it
- C. I Leonardo da Vinci definitely painted it
- D. Leonardo da Vinci did part of the painting

9. Wada said that two of his chickens\_\_\_\_\_eggs yesterday morning.

- A. layed
- B. lied
- C. laid
- D. lain

10. Nigeria became a republic in \_\_\_\_\_.

- A. 1960
- B. 1961
- C. 1963
- D. 1914

### Day 4 Answers

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

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## 2015/2016 FUNAI POST UTME QUESTIONS

1. Njoku \_\_\_\_\_ as a mechanic when he was young, but now he is a driver.

- A. had been working
- B. used to work
- C. would work
- D. would have worked
- E. had worked

2. If Ikenna performs poorly in her forthcoming examinations, then either her mother or I \_\_\_\_\_ to blame.

- A. must
- B. has
- c. will be
- D. are
- E. am

3. No sooner had the examination ended \_\_\_\_\_ the students started vacating the halls.

- A. when
- B. that
- C. than

- D. before
- E. and

4. If \_\_\_\_\_ one day we would talk about it for weeks.

- A. a lion would be coming into this room
- B. a lion was coming into this room
- C. lion came into this room
- D. a lion is coming into is room
- E. ion is was coming into this room

5. When we are coming back from the picnic last Friday, there \_\_\_\_\_ on Niger bridge.

- A. were many traffics
- B. was much traffic
- C. were plenty of traffic
- D. were lots traffic

**Choose the word or phrase closest in meaning to the underlined word or phrase.**

6. My friend will hate his uncle for ever because he left him in the lurch in his hour of need.

- A. abandon him
- B. punished him
- C. disrespected him
- D. disinherited him
- E. despised him

7. For all he cared, the game was as good as lost.

- A. he did not care if the game was lost
- B. he couldn't care less if the game was lost
- C. he was almost certain that the game would be lost
- D. he was afraid the game would be lost
- E. the game was very good and he cared very much about losing it

8. Some people are naturally belligerent.

- A. naughty

B. benevolent

C. familiar

D. clear

E. crazy

9. This is a mundane thing.

A. natural

B. secular

C. familiar

D. clear

E. crazy

10. The word caligynophobia means

A. fear of smile

B. fear of nudity

C. fear of pregnancy

D. fear of beautiful women

E. fear of being touched

**Choose the option opposite in meaning to the word(s) or phrase underlined**

11. The man who had been seriously ill was convalescing at a sea-side resort.

- A. regaining health
- B. deteriorating in health
- C. recuperating
- D. relaxing hallucinating

12. Ben will soon get to the zenith of his cancer.

- A. peak
- B. low
- C. Nadine
- D. bottom
- E. foot

13. The antonym of the word verbose is?

- A. lose
- B. concise
- C. intractable
- D. overdue
- E. heterodox

**Choose the word/expression which best completes each sentence.**

14. You \_\_\_\_\_ to know better than an illiterate farmer.

- A. are suppose
- B. are supposed
- C. supposed
- D. may suppose
- E. will suppose

15. The passenger waited patiently whilst they transferred his\_\_\_\_\_ from the taxi to the bus.

- A. properties
- B. baggages
- C. baggage
- D. property
- E. bagaggess

**Choose the best of the option from the options below**

16. If hydrogen sulphide gas is treated with X a yellow deposit appears If left, then X is

- A. dilute sulphuric acid
- B. dilute hydrochloric acid
- C. unreacted hydrogen sulphide in water
- D. iron (III) chloride
- E. iron I (II) solution

17. A solid X when heated gives off a brown gas. If X is soluble in excess sodium hydroxide solution but insoluble in excess ammonium hydroxide solution, then X is

- A. basic lead carbonate
- B. lead (II) I trioxonitrate
- C. sodium carbonate
- D. zinc nitrate
- E. sodium nitrate

18. When excess ethanol is heated to  $145^{\circ}\text{C}$  in the presence of concentrated sulphuric acid the product is

- A. diethyl ether
- B. ethyne
- C. diethyl sulphate
- D. acetone
- E. ethanoic acid

19. Given the mean atomic mass of chlorine prepared in the laboratory to be 35.5 and assuring that chlorine contains two isotopes of mass number 35

and 37, what is the percentage composition of the isotope of mass number 35?

- A. 20
- B. 25
- C. 50
- D. 75
- E. 90

20. The oxidation state of manganese in  $\text{KMnO}_4$  is

- A. +1
- B. +3
- C. +5
- D. +7
- E. +2

21.  $28.8\text{cm}^3$  of nitrogen at  $15^{\circ}\text{C}$  is cooled to  $0^{\circ}\text{C}$  at constant pressure, the new volume of nitrogen is

- A.  $17.4\text{ cm}^3$
- B.  $14.7\text{ cm}^3$
- C.  $27.3\text{ cm}^3$
- D.  $317\text{ cm}^3$
- E.  $34.7\text{ cm}^3$

22. The electronic configurations of elements X and Y are: X = 2, 8, 6, and Y = 2, 8, 7

23. If 1 mole of aluminium contains  $6 \times 10^{23}$  atoms of aluminium, how many atoms are contained in 0.9 g of aluminium?

- A.  $1.0 \times 10^{23}$
- B.  $6.6 \times 10^{23}$
- C.  $2.0 \times 10^{23}$
- D.  $5.4 \times 10^{23}$

24. 1.0g of the metal when reduced with hydrogen, the formula of the oxide is \_\_\_\_\_.

- A.  $X_2O$
- B.  $XO$
- C.  $XO_2$
- D.  $X_2O_3$
- E.  $X_3O_4$

25. Cotton is almost pure

- A. starch
- B. protein
- C. animal fibre

D. cellulose

E. mineral fibre

26. A spirogyra cell was placed in solution X, after 1 minute the cell had been plasmolysed solution X was

- A. tap water
- B. a very strong sugar solution
- C. a weak sugar solution
- D. a very weak sugar solution
- E. distilled water

27. Which of these products obtained from analysing sweat from the skin is not an excretory product?

- A. water
- B. salts
- C. dust
- D. urea
- E. urates

28. An organism which lives on the remains of the dead plant is \_\_\_\_\_.

- A. an endoparasite
- B. a saprophyte
- C. a commensal
- D. a symbiont
- E. an ectoparasite

29. Which of the substances listed below is a trace element for plants?

- A. potassium
- B. sodium
- C. copper
- D. phosphate
- E. nitrate

30. Which of these is not a type of soil?

- A. sand
- B. granite
- C. loam
- D. clay
- E. sandy loamy

31. In which of the following tissues do the cells have the ability to divide?

- A. meristem
- B. sclerenchyma
- C. phloem
- D. collenchyma
- E. pith

32. Root hairs have their origin from

- A. endoderm
- B. pericycle
- C. cortex
- D. epidermis
- E. xylem

33. Magnesium is utilized in the formation of

- A. ATP
- B. glucose
- C. amino acids
- D. chlorophyll
- E. fats

34. Which of the following organs produces bile?

- A. gall bladder
- B. pancreas

- C. spleen
- D. liver
- E. stomach

35. The following are connected with the movement of a reflex action.

1. central nervous system
2. Muscles
3. skin
4. sensory nerve
5. motor nerve

Which of the following sequences indicates a correct path?

- A. 1-2-3-5
- B. 2-1-4-5-3
- C. 3-4-1-2-5
- D. 4-1-5-2-3
- E. 4-1-2-5

36. During thunderstorm the energy of lighting discharge causes \_\_\_\_\_.

- A. oxygen and nitrogen to combine

B. more carbon dioxide to be formed

C. nitrates to be converted to nitrogen

D. death

37. The amount of water loss from a leaf can be detected using \_\_\_\_\_.

- A. lime water
- B. red litmus
- C. blue litmus paper
- D. blue cobalt chloride paper
- E. pink cobalt chloride paper

38. The mushroom is an organism which feeds \_\_\_\_\_.

- A. parasitically
- B. saprophytically
- C. holozoically
- D. autotrophically

39. One tissue which connects a muscle to a bone is a

- A. cartilage
- B. muscle fibre

- C. tendon
- D. ligament
- E. connecting fibre

40. In which of the following plants is swollen shoot disease common?

- A. Groundnut
- B. cocoa
- C. cotton
- D. rubber

41. A pyramid is constructed on a cuboid \_\_\_\_\_.

- A. the figure has twelve faces
- B. thirteen vertices
- C. fourteen edges
- D. fifteen edges
- E sixteen edges

42. If  $x^2 - 4 = 0$ , then x is \_\_\_\_\_.

- A. 4
- B. -4
- C. 2
- D. -2
- E. none of these

43.  $(3.2)^2 - (1.8)^2$  equals

- A. 7.0
- B. 2.56
- C. 13.48
- D. 2.0
- E. 0.07

44. The annual profits of a transport business were divided between the two partners A and B in the ratio 3:5. If B received \$3000 more than A, the total profit was \_\_\_\_\_.

- A. \$5000
- B. \$1300
- C. \$12000
- D. \$24000
- E. \$8000

45. Which of the following is not a factor of  $12 - 5$  ?

- A. 7
- B. 13
- C. 17
- D. 49
- E. 169

46. A temperature of  $20^{\circ}\text{C}$  is the same as \_\_\_\_\_.

- A.  $36^{\circ}\text{F}$
- B.  $68^{\circ}\text{F}$
- C.  $11.1^{\circ}\text{F}$
- D.  $48.1^{\circ}\text{F}$
- E.  $25^{\circ}\text{F}$

47. A guitar string is 75cm long. The wavelength of its fundamental note is

- A. 75cm
- B. 150cm
- C. 37.5cm
- D. 112.5cm
- E. 50cm

48. A man standing between two parallel mirrors in a barber's shop will see the following number of his own image.

- A. eight
- B. two
- C. four
- D. five
- E. infinite

49. In an electrolysis experiment, a cathode of mass 5g is found to weigh 5.01 g after a current of 5A flows for 50s. What is the electrochemical equivalent of the deposited substance?

- A. 0.00004g/C
- B. 0.000029/C
- C. 0.025009/C
- D. 0.05000g/C
- E. 0.000019/C

50. Which of the following electromagnetic waves has the shortest wavelength?

- A. radio
- B. x - rays
- C. infra-red
- D. blue light
- E. ultraviolet

**ANSWERS TO FUNAI  
2015/2016 POST UTME  
QUESTIONS**

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

**14. B 15. C 16. D 17. B 18. A**  
**19. B 20. D 21. C 22. C 23. C**  
**24. A 25. D**

**26. B 27. C 28. B 29. C 30. B**  
**31. A 32. D 33. A 34. D 35. C**  
**36. C 37. D 38. B 39. C 40. B**  
**41. E 42. C 43. A 44. C 45. D**  
**46. B 47. C 48. E 49. E 50. B**

## Facebook Study Group

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### COMPREHENSION:

**INSTRUCTION: Read the following passage carefully and answer the questions that follows.**

If we examine the opportunities for education of girls or women in less developed countries, we usually find a dismal picture. In some countries, the ratio of boys to girls in secondary schools is more than seven to one.

What happens to the girls? Often, they are kept at home to look after younger siblings and to perform a variety of domestic chores. Their education is not perceived as in any way equal in importance to that of the boys. When a non-literate or barely literate girl reaches adolescence, she has little or no qualification for employment, even if her community provides any

opportunity for the employment of women.

The solution is to get her married as soon as possible, with the inevitable result that she produces children too soon, too often and too late. With no formal education, she is hardly aware that there is any alternative. In a study made in Thailand, it was noted that the

literate woman marries later and ceases childbearing earlier than her non-literate counterpart. But her tending children that she is very difficult to reach, even if health services, nutrition re-education, maternal and child health centres are available in her community.

She does not understand what they are intended to do.

1. The phrase 'a dismal picture' means

A. a dull show

- B. an interesting show
- C. a sad situation
- D. a dreadful appearance

2. According to the writer, most girls in less developed countries are not in school because

- A. they refuse to be educated
- B. they prefer getting married and having children
- C. the education and health services
- D. can only gather fuel and prepare food

3. The non-literate woman is very difficult to reach because she

- A. does not understand the value of education and health services
- B. is too far from the city and from school
- C. is not permitted to go out to attend clinics for health services
- D. only gather fuel and prepare food

4. The phrase "too late" as used in the passage implies that the woman

- A. ought to have stopped producing children earlier
- B. goes on producing children when she ought to have stopped
- C. fail to marry early enough for her to produce children
- D. had all her children at an advanced age

5. The writer emphasizes that in less developed countries

- A. the education of girls is not important
- B. the non-literate woman has some advantage because she has more children
- C. the literate female is a threat to the male in employment
- D. there is a need to give boys and girls equal opportunities in education

**Choose the word or phrase closest in meaning to the underlined word.**

6. Most times my classmate tells cock and bull stories.

- A. costly
- B. unreasonable
- C. clever
- D. untrue
- E. funny

7. Never in the history of human conflict has so much been owed by so many to so few.

- A. many people owed much money at the end of the war
- B. a handful of people saved the lives of a nation
- C. a few people did a lot of thin gratis
- D. this conflict caused the largest ransom ever demanded
- E. very little was owed by anyone to anybody

8. The ingenious scheme of the robber broke down because of the efficiency of the police officer.

- A. suspicious
- B. ambitious
- C. deceitful
- D. clever
- E. stupid

9. Be careful we are approaching the crossroads.

- A. look up
- B. watch out
- C. look out
- D. hold up
- E. look in

10. He took exception to Njoku's remark.

- A. was delighted
- B. was excited by
- C. got demoralised
- D. objected to
- E. was perplexed by

**Choose the option opposite in meaning to the word(s) or phrase underlined.**

11. For millions of years, the world's resources have remained boundless.

- A. unlimited
- B. scarce
- C. indomitable
- D. limited
- E. available

12. The president took exception to the ignoble role the young man played in the matter.

- A. honourable
- B. embarrassing
- C. dishonourable
- D. extraordinary
- E. dishonest

13. He accepted a mundane task without hesitation.

- A. great
- B. lowly

- C. menial
- D. moderate
- E. ordinary

14. In a sentence, there must always be concord between a subject and its verb.

- A. breath
- B. departure
- C. disagreement
- D. dispute
- E. alliance

15. The lecture was merely obfuscating the issue with his endless examples.

- A. complicating
- B. clarifying
- C. confusing
- D. summarizing
- E. boring

**Fill each gap with the most appropriate option from the list following the gap.**

16. My shoes are worn out; I must see my \_\_\_\_\_.

- A. grocer
- B. tanner
- C. cobbler
- D. hosier
- E. shoe-maker

17. \_\_\_\_\_ woman was attacked by a group of bandits.

- A. a 90-years
- B. a 90year old
- C. a 90-year-old
- D. 90-year old
- E. 90 years old

18. She has been hero \_\_\_\_\_ the past three weeks.

- A. since
- B. for
- C. from
- D. in
- E. during

19. Before mechanization, workers

\_\_\_\_\_ water out of fabrics with their hands.

- A. wring
- B. wrung
- C. wrang
- D. winged
- E. wrong

20. Three quarters of the physics class \_\_\_\_\_ dramatically.

- A. improve
- B. improves
- C. are improving
- D. improving
- E. is improved

21. Eze is contemptuous \_\_\_\_\_ dishonest people.

- A. to
- B. at
- C. for
- D. of
- E. from

22. The plaintiff \_\_\_\_\_ the court to restrain the defendants from further action.

- A. asked
- B. begged
- C. demanded of
- D. prayed

23. Ngozi is prepared for a \_\_\_\_\_ with his opponent following his defeat last season.

- A. stay-off
- B. show-down
- C. show-out
- D. show-up
- E. show up

24. The President rejected the bill and withheld his \_\_\_\_\_.

- A. accent
- B. assent
- C. access
- D. ascent
- E. assess

25. The Dark continent was an \_\_\_\_\_ for Africa.

- A. abuse
- B. enigma
- C. eclectic
- D. epithet
- E. impression

**Choose the best of the options from the questions below**

26. Which of the following metals cannot replace hydrogen from water or steam?

- A. sodium
- B. magnesium
- C. iron
- D. calcium
- E. copper

27. Which one of the following changes is physical?

- A. adding iron fillings to aerated water
- B. adding sodium metal to water

- C. cooling a solution of iron (ii) sulphate to obtain the hydrate salt
- D. cooling water to obtain ice
- E. during the domestic gas for cooking

28. 0.1 F of electricity was passed through a solution of copper (II) sulphate. The maximum weight of copper deposited on the cathode would be (Cu = 64)

- A. 64.0g
- B. 32.0g
- C. 16.0g
- D. 6.4g
- E. 3.2g

29. Bronze is an alloy of \_\_\_\_\_.

- A. copper, zinc and nickel
- B. aluminium and copper
- C. copper and zinc
- D. tin and zinc
- E. tin and copper

30. Starch can be converted

- A. distillation

- B. fermentation
- C. isomerization
- D. cracking
- E. cooking

31. Pick out the correct statement

- A. zinc heated to redness react with steam to give oxygen and zinc oxide
- B. zinc heated to redness reacts with steam to give oxygen and hydrogen
- C. zinc does not react with hot or cold water
- D. zinc reacts with not water to form zinc oxide and hydrogen
- E. zinc reacts very easily with cold water to give zinc oxide and hydrogen

32. Chlorine, bromine and iodine resemble each other in that all \_\_\_\_\_.

- A. dissolve in alkalis
- B. react violently with hydrogen without heating

- C. displace each other from solution of their salts
- D. are gases
- E. are liquids

33. When air is compressed, \_\_\_\_\_.

- A. its density decreases
- B. it solidifies
- C. its temperature increases
- D. its temperature decreases
- E. its temperature is unchanged

34. Which of the following is formed when maltose acts with concentrated tetraoxosulphate (vi) acid?

- A. carbon (iv) oxide
- B. coal tar
- C. charcoal
- D. toxic fumes
- E. none of the above

35. A property of a colloidal dispersion which a solution does not have is \_\_\_\_\_.

- A. the tyndall effect
- B. homogeneity
- C. osmotic pressure
- D. surface polarity
- E. all of the above

36. Dr Nnamdi Azikiwe was born in

- A. 1909
- B. 1900
- C. 1904
- D. 1901
- E. 1902

37. One of the following was a female Governor in Nigeria

- A. Prof. Dora Akunyili
- B. Dame Patience Goodluck
- C. Hon. Uche Ekwunife
- D. Dame Vergy Etiaba
- E. Chief (Mrs) Serah Jubril

38. The 2010 soccer world-cup competition took place in \_\_\_\_\_.

- A. Germany
- B. Brazil

C. Colombia

D. USA

E. South Africa

39. The first Nigerian vice-chancellor was \_\_\_\_\_.

A. Prof Eni Njoku

B. Prof Takenna Tamuno

C. Prof Ade Ajayi

D. Prof Kenneth Oil

E. Prof Adeoye Lambo

40. The capital of Lagos state is \_\_\_\_\_.

A. Surulere

B. Victoria Island

C. Ikeja

D. Oshodi

E. Ikorodu

41. If  $x$  is positive for what range of  $x$  is  $4 + 3x < 10$ ?

A.  $0 < X < 2$

B.  $x < x$

C.  $1 < X < 2$

D.  $0 < X < 4$

E.  $0 > X > 2$

42. A house bought for ₦109,000 was later auctioned for ₦80,000. Find the loss percent.

A. 20%

B. 30%

C. 40%

D. 50%

E. 60%

43. If  $2x + y = 7$  and  $3x - 2y = 3$  by how much is  $7x$  greater than  $10y$ ?

A. 1

B. 3

C. 7

D. 10

E. 17

44. Find the number whose logarithm in base 10 is 2.6025.

A. 400.4

B. 0.4004

C. 0.04004

D. 0.004004

E. 0.0004004

45. Simplify:  $\frac{3}{4} + \frac{1}{4} \times (1\frac{1}{2} - \frac{2}{3})$ .

A.  $\frac{7}{30}$

B.  $\frac{7}{24}$

C.  $\frac{9}{25}$

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

E.  $\frac{18}{25}$

46. A stick of length 1.7m was measured by a boy as 1.80m. find the percentage error in his measurement.

A. 27/9%

B. 26/7%

C. 5%

D. 27.7/7%

E. 28.4/9%

47. Simplify  $\log 3.9 + \log 3.15 - \log 3.5$

A.  $\log 3 19$

B.  $\log 3$

C. 3

D. 1

E. 0

48. A trader makes a loss of 15% when selling an article. Find the ratio, selling price : cost price.

49. If N varies directly as M and N = 8 when M = 20. Find M when N = 7

A. 13

B. 15

C.  $17\frac{1}{2}$

D.  $18\frac{1}{2}$

E.  $19\frac{1}{2}$

### **ANSWERS TO FUNAI 2014/2015 POST-UTME QUESTIONS**

**1. C 2. C 3. A 4. D 5. D 6. D 7. B  
8. D 9. B 10. D 11. D 12. A 13.  
C 14. C 15. B 16. C 17. C 18. B  
19. B 20. B 21. A 22. D 23. B  
24. B 25. D**

**26. E 27. D 28. E 29. E 30. B  
31. C 32. D 33. A 34. C 35. C  
36. A 37. A 38. D 39. E 40. A  
41. C 42. A 43. A 44. C 45. C  
46. D 47. - 48. C 49. C**

**Time allowed: 1 hour**

**Answer all questions by marking the correct option in each question**

**Read the passage below carefully and answer questions 1 - 5 that follow it.**

Development in electronic science has transferred, the art of record keeping in the modern age. Traditionally, records of events were kept only in people's mind. It depended very much on the retentive power of the human memory. This was extremely dangerous as people either forgot events wholly or in part, or deliberately falsified details of suit of various interests.

Intermediate arguments were thus the order of the day. Even writing which replaced mental recording was not entirely free from those shortcomings untruth

could be written as true records either willingly or inadvertently. With the advent of the electronic memory, however, these dangers have I been largely overcome.

Recordings on audio and video cassettes now show not only what happened, but also who did or said what including how and when.

1. The author believes that electronic recording is

- A. superior only to mental recording
- B. inferior to both mental recording and writing
- C. superior to both mental recording and writing
- D. inferior to only writing

2. The writer believes that the art of record keeping has \_\_\_\_.

- A. improved over the years
- B. encouraged human memory

C changed human memory  
D. overcome all the problems acting it

3. How many stages of development that the writer mention while discussing the art of record keeping.

- A. two
- B. three
- C. four
- D. five

4. According to the author, human memory is unreliable because people.

- A. the ant forgot what they said
- B. forget events on tell lies
- C. do not always know when events happen
- D. do not always know who did what and when

5. From the passage, we gather that writing is almost?

- A. as unreliable as human memory
- B. as reliable as electronic memory
- C. more reliable than electronic recording
- D. not to be compared to any other recording system

**In question 6 and 7, select the option that light explosions the information conveyed in the sentence.**

6. With the screening test around the corner, I've got the jitters already.

- A. I've felt confident
- B. I've felt secured and hopeful
- C. I'm getting anxious
- D. I'm getting afraid

7. The teacher warned his students against resting on their laurels.

- A. relaxing on soft chairs
- B. taking things for granted

- C. depending on past achievements
- D. feeling satisfied and making no new effort

**In question 8-12 choose the option nearest in meaning to the word(s) or phrase in italics**

8. He lost his voice *momentarily* .

- A. in a moment
- B. in a split moment
- C. for a brief period of time
- D. without delay
- E. instantly

9. You have been asked to change your *laissez-faire* attitude to work.

- A. stupid
- B. carefree
- C. careful
- D. responsible
- E. callous

10. In some part of India, people are *ostracized* simply because of their ancestry.

- A. abandoned
- B. shut off from society
- C. refused education
- D. rendered unhappy
- E. hated

11. We all have both good and bad characteristics. Either is, however, *manifested* in time of crisis.

- A. demanded
- B. highlighted
- C. revealed
- D. demonstrated
- E. indicated

12. One of the surest ways to ensure good health is to have a *wholesome* and adequate diet.

- A. palatable
- B. mixed
- C. hygienic
- D. prudent

E. health-good

**In question 13-18, choose the option opposite in meaning by the word in italics**

13. The state governor *upheld* the decision of the cabinet.

- A. held up
- B. undercut
- C. maintained
- D. abolished
- E. reversed

14. The Director is loved for his *altruism*.

- A. benevolence
- B. sincerity
- C. selfishness
- D. selflessness
- E. generosity

15. Chinyere is naturally *taciturn*.

- A. friendly
- B. cheerful
- C. dumb

D. lively

E. garrulous

16. The doctor was very *gentle* with the patients in the ward.

- A. harsh
- B. rude
- C. rough
- D. unkind
- E. callous

17. Joseph is a disco-addict. He takes his studies rather *lightly*.

- A. humorously
- B. gloomily
- C. tediously
- D. carefully
- E. seriously

18. My cousin is very lazy. His future is rather *bleak*.

- A. cloudy
- B. careful
- C. bright
- D. huge
- E. sturdy

19. The door handle was shaky because the screws had \_\_\_\_\_.

- A. lost
- B. loosed
- C. losed
- D. loosened

20. Something is being done to detect the person who \_\_\_\_\_ the crime.

- A. perpetrated
- B. perpetuated
- C. performed
- D. promoted

21. The lawyer pleaded with the judge to \_\_\_\_\_ justice with mercy.

- A. tempar
- B. tamper
- C. tamper
- D. taper

22. Obi bought five novels last week and has gone through all. He is certainly a \_\_\_\_\_ reader.

- A. vicarious

- B. voracious
- C. vivacious
- D. veracious

**In questions 23-30, choose the word(s) or phrase which best fills the gap(s)**

23. There's \_\_\_\_\_ ventilation in this room that's why you don't breathe well.

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

24. Whenever he put the light on someone \_\_\_\_\_ to disturb him.

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

26. \_\_\_\_\_ him in the crowd, I would have told you at once.

- A. had it been I saw

- B. if I saw
- C. had I seen
- D. should I see

27. \_\_\_\_\_ he had insufficient qualification, he was denied admission.

- A. hence
- B. for the fact
- C. being that
- D. as

28. I was disappointed by my performance because \_\_\_\_\_ very hard.

- A. I had studied
- B. I have studied
- C. I studied
- D. I did studied

29. Everybody knows that \_\_\_\_\_ should return the gown after matriculation.

- A. he or she
- B. he
- C. they

D. she

30. Let's start our revision at once, \_\_\_\_\_.

- A. shouldn't
- B. shall we
- C. couldn't we
- D. shouldn't we

31. What is 11 multiply by 15?

- A. 196
- B. 165
- C. 195
- D. 156

32. Divide 84 by 7 and add 17, what is the answer?

- A. 28
- B. 19
- C. 32
- D. 29

33. What is  $\frac{5}{9}$  of 216?

- A. 120
- B. 110

C. 130

D. 124

34. Which salary is greater?

A. ₦350 weekly

B. ₦646 biweekly

C. ₦1378 monthly

D. ₦17,000 per annum

35. Which number should come next in the series? 1, 4, 9, 16, 25

A. 2

B. 5

C. 12

D. 36

36. Which number should come next in this series? 3, 5, 13, 21

A. 6

B. 34

C. 39

D. 30

37. How many minutes is it before 12noon if 40 minutes ago

it was four times as many minutes past 10am.

A. 16 mins

B. 4 mins

C. 32 mins

D. 20 mins

E. 8 mins

38. What number should replace the question mark to continue the sentence? 100, 96.5, 92, 86.5, ?

39. What number should replace the question mark to continue the next sentence? 17, 34, 51, 68, 7, 102, \_\_\_\_

A. 79

B. 85

C. 92

D. 88

E. 82

40. If you have four fifths of ₦1,000 and spend ₦360, how much will you be left with?

A. ₦250

B. ₦480

C. ~~N~~320

D. ~~N~~440

E. ~~N~~400

41. If Friday is the 4th day of the month, what day is the 13th day of the month?

A. Sunday

B. Monday

C. Saturday

D. Friday

E. Thursday

42. Peter has twice as much as James altogether, they have 84, how many has each?

A. Peter 52, James 52

B. Peter 40, James 44

C. Peter 20, James 64

D. Peter 28, James 56

E. Peter 36, James 50

43. Count the number of times the letter "e" appears in this sentence. What Is the total?

A. 10

B. 11

C. 12

D. 13

E. 9

44. What is the day and date 27 days after Wednesday 11 June?

A. Monday 7th July

B. Tuesday, 15th July

C. Wednesday, 9 July

D. Tuesday, 8th July

E. Sunday, 6th July

**Each of question 45-48 consists of a series of letters or numbers that follow some definite order.**

**Study each series to determine what the order is and select one answer that will complete the set-in accordance with the established pattern.**

45. a c c b d f c e g h

A. f

B. h

C. g

D. i

46. f g I h j k m I n o q p r s

A. I

B. u

C. v

D. r

47. a b 3 d e 6 g h 9

A. f

B. I

C. 12

D. i

48. a 2 b 3 c d 5 e 6 f

A. g7

B. I7

C. 7°

D. 7g

49. Pick the piece that's missing from the diagram on the left

50. Which figure is different from the others?

**ANSWERS TO FUNAI  
2013/2014 POST UTME EXAM**

**1. C 2. A 3. B 4. B 5. A 6. C 7. B  
8. C 9. B 10. D 11. C 12. A 13. E  
14. B 15. E 16. C 17. E 18. C  
19. D 20. A 21. A 22. B 23. C  
24. B 25. D**

**26. C 27. C 28. C 29. A 30. A  
31. B 32. B 33. A 34. A 35. B  
36. \*\* 37. D 38. C 39. B 40. D  
41. A 42. \*\* 43. E 44. D 45. B  
46. B 47. B 48. B**

## APPRECIATION

If you found these past questions **helpful**, here are some ways you can **contribute** to the exam success of other TOPPERS:

- **Correct an error** in this past question
- **Update** this past question
- **Submit a past question** for another school

**Are you interested in contributing?**

