

UNIZIK POST-UTME PAST QUESTIONS FOR FACULTY
OF ENGINEERING AND ENVIRONMENTAL SCIENCES

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2017/2018 UNIZIK POST UTME QUESTIONS

TIME ALLOWED: 30 MINUTES

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

1. Gone are the days when he _____ enjoy
patronage.

A. would

B. will

C. could

D. up to

E. can

2. All _____ well with Peter.

A. are not

B. have not been

C. were not

D. is not

E. are

3. The Villagers looked___ their leader for good examples.

A. up to

B. on to

C. up

D. forward to

E. into

4. John failed because the examination was___ difficult for him.

A. so

B. very

C. highly

D. too

E. much

5. The dancers were all in___ before their departure.

A. good spirits

B. good spirit

C. high spirit

D. high spirits

E. height spirit

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

6. A majority of those who sat for the last JAMB examination are sanguine of success.

- A. hopeful
- B. pessimistic
- C. unsure
- D. disheartened

7. When we woke up this morning, the sky was overcast.

- A. cloudy
- B. shiny
- C. clear
- d. brilliant

8. Enemies of progress covertly strive to undermine the efforts of this administration.

- A. secretly
- B. consistently
- C. boldly
- D. overtly

9. The priest was invited to consecrate the new building.

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- A. destroy
- B. tarnish
- C. abuse
- D. pollute
- E. sanctify

Choose the word(s) that best completes the meaning in the sentences

10. The door handle was shaky because the screws had_____.

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

11. Something is being done to detect the person who_____ the crime.

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

12. The lawyer pleaded with the judge to_____ justice with mercy.

- A. tempar

- B. temper
- C. tamper
- D. taper

13. Obi bought five novels last week and has gone through all. He is totally a_____ reader.

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

Which word is closest in meaning to the word(s) underlined.

14. Chuks will have to face the consequences of his rash action

- A. results
- B. answers
- C. antecedents
- D. prognosis

15. You will incur your father's wrath if you do that.

- A. debt
- B. expenditure
- C. anger

D. favour

16. The devastation caused by the earthquake was quite shocking.

A. devaluation

B. dilapidation

C. desecration

D. destruction

17. The preacher warned the congregation against worrying unduly about mundane things.

A. worldly

B. celestial

C. sinful

D. immoral

18. The peace meeting nipped the crisis in the bud. This means that:

A. the crisis was averted

B. the peace meeting was deadlocked

C. members disagreed on who should receive the flower pot

D. the crisis escalated despite the peace meeting

19. Ugonna passed his examinations with

flying colours. This means that Ugonna_____.

- A. did very well
- B. wore clothes of different colours
- C. was helped to pass the examination
- D. cheated to pass the examination

20. Equal masses of copper and rubber are raised to the same temperature. After sometime, the copper was observed to be at a lower temperature because_____.

- A. the specific' heat capacity of copper is lower than that of rubber
- B. copper expands more than rubber
- C. the specific heal capacity of rubber is lower than that of copper
- D. rubber expands more than copper

21. If two parallel wires carry currents flowing in the same direction, the conductors will_____.

- A. attract each other
- B. repel each other
- C. both move in the same direction
- D. have no effect on each other

22. A hydrometer is an instrument used for measuring the_____.

- A. the depth of water in a vessel
- B. relative density of a liquid by method of flotation
- C. relative density of a liquid by finding the apparent loss in weight
- D. relative humidity of the atmosphere

23. Find the frequencies of the first three harmonics of a piano string of length 5m, if the velocity of the string is 120m/s.

- A. 60Hz, 80Hz, 120Hz
- B. 180Hz, 360Hz, 540Hz
- C. 120Hz, 240Hz, 360Hz
- D. 360Hz, 180Hz, 90Hz

24. The conclusion from Rutherford's alpha-scattering experiment is that_____.

- A. atoms are mostly empty space with a small nucleus
- B. emissions from radioactive substances consist of three main components
- C. there is a nuclear pull on orbital electrons
- D. electrons are deflected by both magnetic and electric fields

25. The light from the sun reaches the earth mainly by_____.

- A. convection
- B. conduction
- C. radiation
- D. reflection

26. In a gas experiment, the pressure of the gas is plotted against the reciprocal of the volume of the gas at constant temperature. the unit of the slope of the resulting curve is

_____.

- A. force
- B. temperature
- C. power
- D. work

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

- A. radio waves
- B. x-rays
- C. infrared
- D. ultraviolet

28. The principle of operation of an induction coil is based on_____.

- A. Ohm's law
- B. Ampere's law
- C. Faraday's law

D. Coulomb's law

29. Two balls of masses 40g and 60g respectively, are attached firmly to the ends of a light metre rule. The centre of gravity of the system is_____.

- A. at the mid-point of the metre rule
- B. 40cm from the lighter mass
- C. 40cm from the heavier mass
- D. 60cm from the heavier mass

30. The expansion of solids can be considered a disadvantage in the_____.

- A. fire alarm system
- B. thermostat
- C. riveting of steel plates
- D. balance wheel of a watch
- E. fitting of wheels on rims

31. An acid, X, was added to a solution of the nitrate of a metal Y. A dense white precipitate was formed. What is X?

- A. Organic acid
- B. Hydrochloric acid
- C. nitric acid
- D. sulphuric acid

32. Pure water can best be obtained from dirty river water by_____.

- A. filtration
- B. distillation
- C. crystallization
- D. chromatography

33. Which of the following is not an industrial use of chlorine?

- A. making cooking salt
- B. making domestic bleaches
- C. making hydrochloric acid
- D. making the plastic PVC

34. Air boiled out of water as steam is richer in _____.

- A. Nitrogen and oxygen
- B. Carbon(I)oxide and oxygen
- C. Noble gases and oxygen
- D. Carbon(IV)oxide and noble gases

35. The atoms of an element which have the same number of proton and different number of neutrons are called_____.

- A. isotopes
- B. isobars
- C. isobars

D. isotones

D. isomers

36. The mass number A is given by (Z is atomic number and N is number of neutrons).

A. $A = Z - N$

B. $A = Z N$

C. $A = N - Z$

D. $A = 2Z - 2N$

37. The silver coating on the inside of a vacuum flask reduces heat loss by_____.

A. conduction

B. radiation

C. condensation

D. convection

38. A given mass of gas occupies 2dm^3 at 300K . At what temperature will its volume be double keeping the pressure constant?

A. 400K

B. 480K

C. 550K

D. 600K

E. 500K

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39. If $x-1$ is a factor of $3x^3 + px^2 + 5x - 3p$,

find value of p .

A. -2

B. 2

C. 4

D. 3

40. Find the value of x for which

$3(2$

$4x + 3) = 96$

A. 2

B. -2

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

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

41. Find the range of values of x for which

$7x - 3 > 3x + 4$

A. $x < 7$

$/4$

B. $x > 7$

$/4$

C. $7x < 4$

D. $-4x < 7$

42. The minimum value of $y = x^2 - 4x - 5$

is ____.

A. 2

- B. -2
- C. 13
- D. -13

43. The chances of three independent events X, Y, Z occurring are $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ respectively. What are the chances of Y and Z only occurring?

- A. $\frac{1}{8}$
- B. $\frac{1}{24}$
- C. $\frac{1}{12}$
- D. $\frac{1}{4}$

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44. Find the number of sides of a regular polygon if each of the interior angle of the polygon is 150.

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

45. Simplify

1

1

2

$2 \div ($

1

4

of 16)

A. 3

B. 4

C. 9

D. 10

46. Which of the following lines is not parallel to the line $x - 2y = 5$?

A. $x - 2y - 7 = 0$

B. $2x - 4y - 1 = 0$

C. $x + 2y - 3 = 0$

D. $16x - 32y - 9 = 0$

47. If $\sin A = \frac{4}{5}$

and $\cos B = \frac{12}{13}$

Find the value

of $\sin(A - B)$.

A.

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63

65

B. 23

65

C. 8

64

D. 2

E. 5

48. How much will ₦200,000 amount to at 12% simple interest over 4 years.

A. ₦396,000

B. ₦296,000

C. ₦196,000

D. ₦396,000

E. ₦729,000

49. Given that $\sqrt{4$

$2x$

3

$=16$, find x

A. 2

B. 3

C. 4

D. 6

50. Factorize $35-2b-b$

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2

A. (35-2b)(b-1)

B. (7 13)(5-b)

C. (3 7)(5-b)

D. (35-b)(3b 7)

E. (7 B)(5 b)

SOLUTION TO 2017/2018

POST-UTME QUESTIONS

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

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

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

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

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

38. D 39. B 40. C 41. B 42. A 43. C 44. D

45. A 46. A 47. A 48. B 49. B 50. B

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