



UNIVERSITY OF EDUCATION, WINNEBA

SUBJECT AREA TEST (SAT)

B.ED BASIC EDUCATION/ B.ED EARLY GRADE)

MATURE ENTRANCE EXAMINATION, JAN. 2025

INDEX NUMBER: TIME ALLOWED: 1 HOUR

Instruction: This paper consists of 70 multiple choice questions. Choose the most appropriate answer from the list of options (A – D) provided for each question. Answer all questions

GENERAL EDUCATION

1. Which of the following is **not** a type of education experienced in Ghana?
 - A. Informal education
 - B. Exformal education
 - C. Non-Formal Education
 - D. Formal Education
2. The kind of education our parents, siblings, uncles and other family members give us in our homes can be put under which type of Education?
 - A. Informal Education
 - B. Exformal Education
 - C. Non-Formal Education
 - D. Formal Education
3. The system of education given in the school setting can be classified as;
 - A. Informal Education
 - B. Exformal Education
 - C. Non-Formal Education
 - D. Formal Education
4. The type of education given to old persons who have not been to school before to enable them read and write to enable them to at least, communicate in their small way is under which type of Education?
 - A. Informal Education
 - B. Exformal Education
 - C. Non-Formal
 - D. Formal Education
5. Which of the following organisations cannot be said to be under the Ghana Education Service?
 - A. National Council for Tertiary Education
 - B. Colleges of Education
 - C. Technical Education Division
 - D. Curriculum Research and Development Division
6. A typical training period for one to become a professional teacher lasts for a minimum of....and a maximum of:
 - A. 2 ; 3
 - B. 4 ; 5
 - C. 3 ; 4
 - D. 2 ; 5
7. What age should every Ghanaian teacher attain before going on compulsory retirement?
 - A. 55 years
 - B. 63 years
 - C. 50 years
 - D. 60 years.
8. What age can the average Ghanaian Basic School teacher attain before going on a voluntary retirement?
 - A. 55 years
 - B. 63 years
 - C. 50 years
 - D. 60 years
9. What is the full meaning of the acronym NCTE?
 - A. National Centre of Teacher Education
 - B. National Council for Teacher Examinations
 - C. National Council for Tertiary Education
 - D. National Centre of Terrified Educationists
10. How long is formal basic education in Ghana expected to last?
 - A. 6 years
 - B. 9 years
 - C. 11 years
 - D. 12 years

11. Which of the following statements can best describe the term education?
- The transfer of knowledge from one source to another
 - The handing over a community's culture to future generations
 - The transmission of knowledge from an experience individual to a less experienced person
 - The transfer of knowledge from teachers to students
12. What is the full meaning of the abbreviation FCUBE?
- First Council for University Bachelors' Education
 - Final Certificate of Universal Boys Examinations
 - Free Compulsory Universities Biology Examinations
 - Free Compulsory Universal Basic Education
13. Which of the following cannot be a **significant** determinant of a person's personality?
- The type of home the person finds himself or herself in
 - A person's parents' chromosomes and genes
 - The birth order in a person's nuclear family
 - A person's play pattern in the home
14. In the social learning concept children acquire knowledge through the following pattern:
- Observation-imitation-modeling-behaviour
 - Imitation-observation-behaviour-modeling
 - Observation –imitation-behaviour – modeling
 - Observation-modeling- imitation-behaviour

15. How many public universities apart from the Technical universities do we have in Ghana?

- 9
- 10
- 11
- 12

ENGLISH LANGUAGE

16. The meeting was held ----- the premises of the Company.

- at
- in
- on
- an

17. I slapped hershe kept pulling my legs.

- so that
- but
- because
- in that

18. The New Mercedes Benz is -----

- for hiring
- for hire
- at hire
- on hiring

19. I stoodthe junction for almost half an hour thinking that he would return.

- in
- to
- of
- at

20. The country's position with ----- --to homosexuality is unclear.

- regard
- regards
- regarding
- regarded

21. The Company wished their Manager.....birthday.

- happy belated
- belated happy
- belaying happy
- happy belaying

22. The bus has scheduleof an hour.
 A. dalliance
 B. delayed
 C. delays
 D. delay
23. Many most parents fail to plan for their children's Tertiary education.
 A. a times
 B. a time's
 C. a time
 D. a thyme
24. Professor J. H. Nketsia has been to Eternal Rest
 A. call
 B. calling
 C. called
 D. calls
25. For such a serious offense Akosua was lucky to.....with a line
 A. get over
 B. get on
 C. get away
 D. get off
26. The members of the association were just roundingtheir discussion.
 A. up
 B. off
 C. of
 D. in
27. You will help Kwesi with his assignment.?
 A. Can you
 B. Could you
 C. Would you
 D. Won't you
28. Neither the students nor the prefect.....speaking the truth.
 A. is
 B. was
 C. are
 D. were

29. Anthony has continuous success in his business life.
 A. chalked
 B. chalked up
 C. chalk
 D. chalked in

30. It is about time wethe floor for the upcoming event
 A. mop
 B. mopped
 C. mob
 D. mobbed

*In each of the following sentences, there is a word or group of words underlined and one gap. From the list of words lettered A to D. Choose the one that is **most nearly opposite in meaning** to the underlined word or group of words and that will, at the same time, correctly fill the gap in the sentence.*

SOCIAL STUDIES

31. Which of the following is associated with the need to feel important and have worth in a society?
 A. Self Actualization
 B. Self esteem
 C. Safety needs
 D. Survival needs
32. Which of the following is synonymous with global warming
 A. Ozone layer depletion
 B. Desertification
 C. Green house effect
 D. Environmental degradation
33. The higher group of animals is called
 A. primates
 B. promoter
 C. predators
 D. premovorous

34. All chemical process in the body are controlled by the

- A. cells
- B. tissues
- C. genes
- D. amino acids

35. A situation where a child grows rapidly than the normal age is associated with

- A. Turner Syndrome
- B. Down Syndrome
- C. Progeria
- D. Haemophodite

36. The third layer associated with Atmosphere is

- A. troposphere
- B. stratosphere
- C. mesosphere
- D. thermosphere

37. The basic force motivating the human organism according to Maslow is

- A. self esteem
- B. survival needs
- C. self-actualization
- D. safety and security needs

38. Which of these factors make individual tall or fat?

- A. Education and Religion
- B. Genetic factors
- C. Environmental factors
- D. Congenital factors

39. The interrelationship between living organisms and their environment is called

- A. eco system
- B. terrestrial
- C. population
- D. troposphere

40. Which of the following is a constituent of Earth Science in the New Education Reforms?

- A. Plant
- B. Animal
- C. Lithosphere
- D. Mankind

41. The latest stage associated with the development of the primitive man is

- A. hunting
- B. domestication
- C. gathering
- D. nomadic

42. The chromosome anomalies associated with the affected individual aging rapidly than their normal age is said to be

- A. hermaphrodite
- B. progeria
- C. Turner syndrome
- D. Down syndrome

43. All citizens no matter their position are subject to the same law. This is associated with

- A. supremacy of the law
- B. rule of law
- C. constitutional rule
- D. equality before the law

44. The Executive must exercise power in accordance with the law. This is associated with...

- A. constitutional rule
- B. supremacy of the law
- C. equality before the law
- D. rule of law

INTEGRATED SCIENCE

45. Which of the following materials allows electric current to pass through easily?

- A. Aluminium
- B. Carbon
- C. Glass
- D. Water

46. Fruits which are dispersed by wind are likely to be

- A. dry
- B. hairy
- C. juicy
- D. sticky

47. The S.I. unit for measuring the work done by a force is
 A. J.
 B. K.
 C. N.
 D. W.
48. Producers in an ecosystem are plants that
 A. attract insects
 B. feed on other plants
 C. manufacture their own food
 D. trap insects
49. In modern electrical wirings the colour code for the live wire is
 A. blue
 B. brown
 C. green
 D. green and yellow
50. Which of the following substances is a salt?
 A. CaCl_2
 B. H_2SO_4
 C. NaOH
 D. HCl
51. Which of the following devices requires the use of transistors in its operation?
 A. Electric heater
 B. Computer
 C. Microphone
 D. Wall clock
52. Which of the following arrangements show the correct order of increasing complexity of structures in living organisms?
 A. cells \rightarrow organs \rightarrow tissues \rightarrow systems
 B. cells \rightarrow tissues \rightarrow organs \rightarrow systems
 C. cells \rightarrow systems \rightarrow tissues \rightarrow organs
 D. cells \rightarrow tissues \rightarrow systems \rightarrow organs
53. A load of 10 N is moved through a distance of 2 m. Calculate the work done.
 A. 5 J
 B. 10 J
 C. 20 J
 D. 50 J
54. A solar cell produces electrical energy from
 A. light
 B. electromagnets
 C. heat
 D. sound
55. In a third class lever the
 A. pivot is between the load and effort
 B. effort is between the load and pivot
 C. pivot is absent
 D. load is between the effort and pivot
56. Which of the following bodies is at the centre of the solar system?
 A. Earth
 B. Mars
 C. Sun
 D. Moon
57. Wood is used to make the handles of cooking utensils because it is a
 A. bad conductor of heat
 B. good absorber of heat
 C. good reflector of heat
 D. bad radiator of heat

MATHEMATICS

58. The result when zero is divided by any none-zero number is described as...
 A. one
 B. zero
 C. undefined
 D. Indeterminate

59. Non-repeating and non-terminating decimal numbers are referred to as....
 A. surds
 B. rational numbers
 C. integers
 D. complex numbers
60. Terminating and recurring decimal numbers are referred to as ...
 A. surds
 B. rational numbers
 C. integers
 D. complex numbers
61. Which of the following is **NOT** a real number
 A. $2\sqrt{2}$
 B. $\sqrt{-6}$
 C. -1000008
 D. $-\frac{2}{7}$
62. Alaska is 20°C colder than Tokyo. Tokyo is 5°C , what is the temperature in Alaska?
 A. 15
 B. -15
 C. -25
 D. 25
63. Find the area of a sector of a 30m^2 circle that subtends an angle of 90° .
 A. 15.0 m^2
 B. 7.5 m^2
 C. 3.0 m^2
 D. 120.0 m^2
64. Given the equation $xy^2 - 4yx = 4$, the value of y in terms of x is...
 A. $y = x^2 - 3$
 B. $y = \sqrt{x + 2}$
 C. $y = 4/x^2$
 D. $y = x - 2$
65. A sector of a circle subtends an angle of 60° . If the circumference of the circle is 720cm , calculate the perimeter of the sector. [Take π as $22/7$].
 A. 114.55cm
 B. 229.09cm
 C. 349.09cm
 D. 400.55cm
66. Evaluation of $b^2 (a^3) b^{-3} (a^{-2})^3$ gives any of the following **except**...
 A. $b^{-1}a^{-3}$
 B. $1/b (a^{-3})$
 C. b^5a^2
 D. $b^3 (1/a^3)$
67. In a can there are 7 red balls and 8 blue balls. If balls are picked at random from the can **without** replacement. What is the probability that two balls picked from the can are blue?
 A. 0.25
 B. 0.28
 C. 1.25
 D. 1.28
68. In a can there are 10 red balls and 20 blue balls. If balls are picked at random from the can **with** replacement. What is the probability that two balls picked from the can is blue?
 A. 0.25
 B. 0.28
 C. 1.25
 D. 1.28
69. If $\log_a b = C$, which of the following is true
 A. $a = bc$
 B. $b = a^c$
 C. $a = b^c$
 D. $b = ac$
70. The cost price of an item is 15% less the selling price. If the selling price is GHC 6800.00. What is the cost price of the item?
 A. 5780
 B. 5913
 C. 5930
 D. 6370