

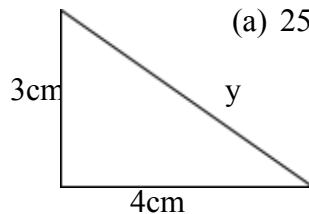
HIGHER HEIGHT COLLEGE

ENTRANCE EXAMINATION 2021 / 2022 ACADEMIC SESSION

SUBJECT: MATHEMATICS CLASS: J.S.S TWO DURATION: 1HR 30MINS

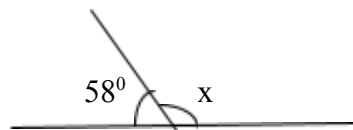
Choose the correct answer from options a – d in this section

1. If $x - 3 = 2$, find the value of x (a) 5 (b) 6 (c) 7 (d) -5
2. Evaluate $p = 9x - 5y$ when $x = 7$ and $y = 3$ (a) 63 (b) 48 (c) 21 (d) 10
3. A quadrilateral has how many sides? (a) 2 (b) 6 (c) 4 (d) 7
4. The Greek Mathematician called _____ discovered the relationship between the sides of a right-angled triangle. (a) VENUS (b) PYTHAGORAS (c) MANDALLA (d) OCTOPUS
5. If $n = 4$, $m = 3$ and $x = 10$. Find the value of $mx + n$ (a) 20 (b) 24 (c) 34 (d) 30
6. Expand and simplify $5(x + y) - 2(x - y)$ (a) $10xy$ (b) $7x - 3y$ (c) $7x + 7y$ (d) $3x + 7y$
7. A man monthly income of N8000 is increased by $\frac{1}{4}$. How much does he received now? (a) N12000 (b) N1000 (c) N6000 (d) 10000
8. The odd numbers between 21 and 30 are (a) 20, 21, 23, 25, 29 (b) 23, 25, 27, 29 (c) 22, 23, 27, 28 (d) 21, 23, 25, 27, 29
9. The missing number in the fraction $\frac{3}{4} = \frac{\quad}{20}$ is (a) 6 (b) 9 (c) 12 (d) 15
10. Find the product of the LCM and HCF of 4, 10, and 8 (a) 80 (b) 90 (c) 100 (d) 24
11. Find the value of the missing side of the triangle below



- (a) 250cm (b) 25cm (c) 5cm (d) 15cm

12. What is the value of the marked angle x ?



- (a) 180° (b) 57° (c) 102° (d) 122°

13. The normal price of a radio is N10000. If $\frac{1}{5}$ of the price is taken off. How much does the radio cost now? (a) N2000 (b) N2500 (c) 6000 (d) 8000
14. Simplify $2\frac{1}{5} \div 2\frac{2}{3}$ (a) $\frac{2}{11}$ (b) $\frac{14}{11}$ (c) $\frac{33}{40}$ (d) $\frac{55}{24}$
15. Solve for x , if $3x - 3 \geq x + 19$ (a) $x \geq 11$ (b) $x < 15$ (c) $x > 25$ (d) $x \leq 10$
16. A trader bought 12 electronic stores at a cost N3600, find the price of a stove. (a) N300 (b) N400 (c) N450 (d) N100
17. Express 108 as a product of its prime factors in index form (a) $2^2 \times 3^2$ (b) $2^2 \times 3^3$ (c) $2^3 \times 3^4$ (d) $2^3 \times 3^3$

18. Find the smallest number by which 12 can be multiplier to give a product square (a) 1 (b) 2 (c) 3 (d) 4
19. What is the sum of the interior angles of a pentagon (a) 180° (b) 360° (c) 500° (d) 540°
20. If $2 : 3$ is in the form $x : 12$. Find the value of x (a) 8 (b) 7 (c) 6 (d) 5

Use the table below to answer questions 22 to 25 for the relation $y = 2x + 5$

x	-3	-2	-1	0	1	2	3	4
y	A	1	3	B	7	C	11	D

21. What is the value of A? (a) 4 (b) -5 (c) -1 (d) 3
22. What is the value of B? (a) 2 (b) 3 (c) 4 (d) 5
23. What is the value of $C + D$? (a) 22 (b) 20 (c) 5 (d) -4
24. What is the value of $A + B + C + D$? (a) 15 (b) 26 (c) 30 (d) 36
25. Which of the following inequalities is represented in the figure below?

(a) $x > -2$ (b) $x \geq 2$ (c) $x \geq -1$ (d) $x < 4$

26. If 80 is divided by the sum of 4 and a certain number, the results is 16. Find the number (a) 2 (b) 4 (c) 5 (d) 1
27. What is the value of $2^3 \times 3^2 \times 7$ (a) 504 (b) 378 (c) 252 (d) 72

THEORY

Instruction: Answer any three questions from this section

- (a) The interior angles of a pentagon are $(y + 13)^\circ$, $(y + 15)^\circ$, $(y + 23)^\circ$, $(y + 29)^\circ$ and $(y + 40)^\circ$

(i) Find the value of y (ii) Find the value of each interior angles

(b) Represent each on a linear graph.

(i) $x \leq 3$ (ii) $x > -5$
- (a) Solve each of the following linear inequalities and show the solution on a number line

(i) $2x - 3 > 11$ (ii) $3x - 3 \leq x + 19$
- (a) The sum of angles of a polygon is 1980° . How many sides does the polygon has?

(b) Simplify: (i) $4x - 3 = x + 6$

(ii) $3x + 2 = 23$

HIGHER HEIGHT COLLEGE

ENTRANCE EXAMINATION 2021/2022 ACADEMIC SESSION
SUBJECT: ENGLISH LANGUAGE CLASS: J.S.S. TWO

Instruction: Answer all questions

COMPREHENSION PASSAGE (SECTION A)

Read the passage carefully and choose the correct answer from option A - D.

Diet is the total amount of food consumed by a person. Nutritious food contains all the essential nutrients—proteins, fats, carbohydrates, vitamins and minerals. A balanced diet should contain all these in the correct proportions and sufficient quantity. The word diet implies a particular intake of food for health or weight-management reasons. Every person or culture has some preferences or taboos about food due to infant morality, personal taste or religion. Nutrition is the provision of materials (in the form of food) to an organism to support its life. Food is a thing which, when eaten and digested, can be used by the body to provide energy, or substances that help in body building and repair or in the preservation of health. Food includes many things we eat and drink. It does not include alcohol, cigarettes and drugs.

Foods may be grouped into types according to whether they are a) solid or liquid, local or imported, cereals, vegetables or fruits, and eaten raw or cooked. Solid foods are yam, rice, bread and beans. Examples of liquid food are milk, cocoa drinks and fruit juices. Local foods can be sourced domestically e.g. sweet potato, guinea corn, yam and beans. Imported foods are stockfish, milk, pasta and cheese. Foods that can be eaten raw are lettuce, pawpaw, cucumber and carrot. Those that can be cooked are yam, rice, meat, fish and potato.

Foods can also be grouped into classes based on the chemical composition of the food and the nutrients present in the food. Accordingly, foods are grouped into six classes, namely carbohydrates, proteins, fats and oils (or lipids), vitamins, mineral salts and water. Carbohydrates are composed of carbon, hydrogen and oxygen and the ratio of hydrogen to oxygen in carbohydrates is 2:1. Carbohydrates are energy-giving foods. Examples are garri, yam, rice and maize. Proteins comprise carbon, hydrogen, oxygen and nitrogen atoms. They may also contain sulphur and phosphorus. Proteins are used in body-building, and growth and repair of worn-out cells. Examples are meat, fish, milk, yoghurt and beans. Fats and oils are composed of carbon, hydrogen and oxygen atoms. Fats are solid at room temperature while oils are liquid at room temperature, but their chemical compositions are similar. They are energy-giving foods. Examples are animal fats, palm oil, vegetable oil, olive oil and margarine.

Vitamins are required by the body in small amounts. Examples are vitamins A, B, C, D, E and K. When present, the body is healthy. When each vitamin is absent, the body suffers from a specific disease, unique to the absence of that vitamin. The diseases that arise when vitamins are absent are called vitamin-deficiency diseases. A poor diet may have a serious impact on a person's health, causing diseases such as scurvy, kwashiorkor, obesity, diabetes and heart conditions. It is best to eat a wide variety of foods, especially fresh, unprocessed foods.

QUESTIONS

1. Which word in the first paragraph mean the same as eaten? A. balanced B. consumed C. proportion D. diet
2. According to the passage, which of the following does not contain nitrogen atom? A. proteins B. fats and oils C. meat D. beans
3. The word unique as used in the fifth par graph means A. inclusive B. matchless C. common D. replaceable
4. Which of the following is not supported by the passage? A. Local foods can be sourced internationally B. A poor diet may have a danger effect on a person C. A balanced diet should have vitamins D. Alcohol is not an example of food.
5. Which of the following food sources responsible for the repair of damage cells? A. proteins B. carbohydrates C. vitamins D. fats and oils

SECTION B

Choose from the options lettered A to D the vocabulary that best completes the sentence

6. Cholera is the most dreadful-- ----- I know. A. attack B. sickness C. disease D. disturbance
7. Avian influenza (Bird flu) is a/an ----- disease. A. dangerous B. Infectious C. relapsing D. contaminated
8. A 10% was given to my friend when he bought a radio set. A. balance B. change C. discount D. bonanza
9. My cousin is the son of my..... A. brother B. nephew C. uncle D. sister
10. My mother took ill last year but she is -----A. convalescing B. convulsing C. resuscitating D. rehabilitating

SECTION C

From the option lettered A-D, choose the one that is most opposite in meaning to the underlined word.

11. Tolu is diligent but her friend isA. conceited B. polite C. indolent D. modest
12. My father is.....by nature but his brother is stingy. A. calm B. generous C. thoughtful D. thrifty
13. We jubilated from dusk to.....when Bola Tinubu was declared the winner of the election. A. dark B. dawn C. day D. night
14. The banker should be able to distinguish between..... and fake notes. A. crisp B. good C. genuine D. correct
15. Foodstuffs used to be very cheap but they are now.....A. scarce B. expensive C. plentiful D. common

SECTION D

From the option lettered A-D, choose the one that is most nearest in meaning to the underlined word.

16. The taxi driver intentionally splashed water on the lady. A. mistakenly B. deliberately
C. wickedly D. unknowingly
17. The new Principal was fired last month. A. condemned B. sacked C. shot D. strict
18. The criminal was subjected to serious interrogation. A. beating B. torture C.
hardship D. questioning
19. Tunde is at the peak of his career. A. bottom B. top. C. middle D. finest
20. Esther told me her sister was timid by nature. A. shy B. cool C. cool headed D.
snobbish

SECTION E

From the option lettered A-D, choose the word that best completes each sentence

21. He was driving to his office when he.....the accident. A. sees B. seen C. saw
D. seeing
22. Who is the author of the book titled the "Hard Way?" A. Maruf Asumade B. Maroof
Asudemade C. Abdumaruf Asunmadeke D. Almaroof Osamede
23. "..... I can see that you've got well now. You're recuperating fast." Who said the
above statement? A. Mr. Benjy B. Mrs. Benjy C. Dr. Emeka D. Simisola
24. To whom was the above statement said? A. Mrs. Benjy B. Simisola C. Bala D.
Kunmi
25. Everyday my mother always.....up at 5:00 a.m. A. woken B. wake C.
waking D. wakes
26. "The boy is as stubborn as a goat" The statement is as an example of..... A Metaphor B.
Simile C. Personification D. Irony
27. The man gave his friend.....which is wrong. A. an information B. informations
C. some information D. many information

SECTION F

From the word letter A to D, choose the word that has the same sound as the one represented below:

- | | | | | |
|------------------|-----------|------------|-------------|------------|
| 28. <u>cough</u> | A. pirate | B. phantom | C. property | D. Victory |
| 29. /a: / | A. made | B. mad | C. mark | D. mat |
| 30. /l: / | A. ice | B. quay | C. nurse | D. ink |

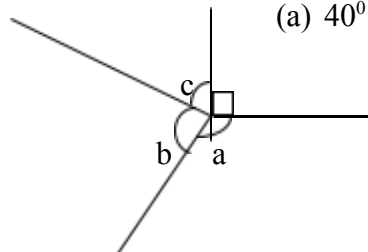
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ENTRANCE EXAMINATION 2022/ 2023 ACADEMIC SESSION

SUBJECT: MATHEMATICS CLASS: J.S.S TWO DURATION: 2HOURS

Choose the correct answer from options a – d in this section

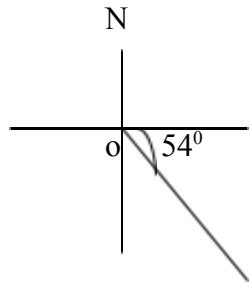
- What is the additive inverse of 2 (a) -2 (b) -3 (c) 2 (d) 4
- If $x + 9 = 2$ find the value of x (a) -9 (b) 8 (c) -7 (d) 5
- What is the sum of the interior angle of a nonagon (a) 540° (b) 1260° (c) 990° (d) 180°
- Simplify: $9v^2v^5 \times 3uv$ (a) $27v^6u^2$ (b) $12v^6u^2$ (c) $27u^3v^6$ (d) $9u^3v^6$
- Express 0.00045 in standard form (a) 4.5×10^1 (b) 0.045 (c) 4.5×10^{-3} (d) 4.5×10^{-2}
- If a die is rolled once, what is the probability of having a prime number?
(a) $\frac{2}{5}$ (b) $\frac{1}{2}$ (c) $\frac{4}{5}$ (d) $\frac{3}{8}$
- Convert 130° to a compass bearing (a) N 60° W (b) N 30° E (c) S 50° E (d) S 40° W
- The three digit bearing of S 29° W is (a) 209° (b) 130° (c) 300° (d) 050°
- What is the multiplicative inverse of $\frac{4}{9}$? (a) $2\frac{1}{4}$ (b) 0.84 (c) $2\frac{2}{9}$ (d) $\frac{4}{7}$
- Find the angle whose sin is 0.7254 (a) 45.6° (b) 46.5° (c) 14.6° (d) 35.6°
- It takes a student about 1 hour to read 39 pages of a book. The book contains 429 pages.
Estimate the number of hours it will take the students to read the whole book.
(a) 39 hours (b) 11 hours (c) 144 hours (d) 234 hours
- The angle of elevation of the top of a building from a point 80m away on a level ground is 25° . Calculate the height of the building to the nearest metre (a) 30.81m (b) 36.50m (c) 37.30m (d) 40.82m
- Find the principal that will earn N350 interest for 7 years at 5%
(a) N1000 (b) N100 (c) N5050 (d) N4150
- Evaluate: $\frac{2c-3d}{5e}$, when $c = 2$, $d = -2$ and $e = 1$. (a) 2 (b) 4 (c) $-\frac{2}{5}$ (d) $\frac{2}{5}$
- Four angles of a pentagon are equal and the fifth one is 140° . Find the equal sides
(a) 1440° (b) 990° (c) 100° (d) 75°
- The distance between Jos in Plateau State and Ibadan in Oyo State is about 900 km. find the distance on map, if the scale on the map is 1cm : 200km
(a) 4.5cm (b) 40km (c) 9cm (d) 90 km
- Sum up 613.304, 4.0862 and 1.0852 correct to 2 significant figures
(a) 618.48 (b) 620 (c) 621 (d) 750
- Find the smallest number by which 12 can be multiplied to give a perfect square
(a) 1 (b) 2 (c) 3 (d) 4
- Simplify: $\frac{18x^2yz^2}{9x^2y^3z}$ (a) $\frac{2x^2z}{y}$ (b) $\frac{2xz}{y^2}$ (c) $\frac{x^2z^2}{y}$ (d) $\frac{2z}{y^2}$
- Reduce 2kg 50g by 20% (a) 1640g (b) 120g (c) 1kg (d) 410g
- Find the value of a in the figure below if $b = 100^\circ$ and $c = 60^\circ$
(a) 40° (b) 79° (c) 110° (d) 250°



22. What is the angle between the North and the North East in the secondary directions

- (a) 45° (b) 90° (c) 180° (d) 360°

23. What is the bearing of B from O in the figure below



- (a) $N46^\circ E$ (b) $S69^\circ W$ (c) $S36^\circ E$ (d) $N15^\circ W$

24. Use the table to find the value of $\tan 60.8^\circ$ (a) (b) (c) (d)

25. A ladder 22.5m long leans against a vertical wall. The ladder is 7.5m away from the wall.

How far the wall does the ladder reach? (Give your answer to 1 d.p)

- (a) 21.2 (b) 4.3m (c) 55. 3m (d) 29.3m

26. If a scale of 2cm represents $\frac{3}{4} km$, find the length on a scale drawing for 201km

- (a) 80cm (b) 200cm (c) 224cm (d) 536cm

27. A student scored 80% in Arithmetic test. If the obtainable score is 240, how many marks did he obtain? (a) 192 (b) 48 (c) 60 (d) 144

The table below shows the number of cars sold by a dealer for a period of five years

Year	2004	2005	2006	2007	2008
Number of cars	250	300	350	420	550

Use the table to answer Questions 28 – 30

28. How many cars were sold altogether?

- (a) 970 cars (b) 1870 cars (c) 459 cars (d) 1009 cars

29. What is the difference between the cars sold in 2005 and 2008?

- (a) 250 cars (b) 20 cars (c) 200 cars (d) 170 cars

30. What is the percentage of car sold in 2005 and 2007?

- (a) 41.2% (b) 38.5% (c) 16.01% (d) 25%

THEORY

Answer any three questions

1. The table below shows the distribution of primary classes 1 to 6 in a school in Oyo State.

Classes	Pry 1	Pry 2	Pry 3	Pry 4	Pry 5	Pry 6
---------	-------	-------	-------	-------	-------	-------

Number of Pupils	60	70	80	90	100	55
------------------	----	----	----	----	-----	----

- (i) Represent this information in a bar chart
 - (ii) How many pupils are in primary 1 and 4?
 - (iii) Find the total number of pupils in the primary section.
2. (a) A bag contains 15 red, 27 white and 8 green balls. A boy takes a ball at random, what is the probability of having:
 - (i) A white (ii) A green (iii) Not red
 (b) Express the following in standard form:
 - (i) 976 (ii) 0.000451 (iii) 3.745
 3. (a) Yusuf is 20m away from a tree and he observes that the angle of elevation of a bird on the tree is 58° . He is 1.7m tall. How high is the tree? (Illustration attracts more marks)
 (b) Represent the following on a compass bearing
 - (i) $N50^\circ E$ (ii) $S20^\circ E$ (iii) $S80^\circ W$
 4. (a) Show whether the following set of numbers form a Pythagorean triples
 - (i) 4, 5, 6 (ii) 30, 40, 50 (iii) 12, 35, 37
 (b) Convert the following 3 digit bearing to compass bearing with illustrations
 - (i) 130° (ii) 250° (iii) 300°

HIGHER HEIGHT COLLEGE

ENTRANCE EXAMINATION 2022/2023 ACADEMIC SESSION

SUBJECT: ENGLISH LANGUAGE CLASS: J.S.S. TWO

Instruction: Answer all questions

COMPREHENSION (SECTION A)

Read the passage carefully and answer the questions that follow

Kidnapping in Nigeria is fast becoming a monster. It is now a recurrent thing to hear the daily dosage of sad news of abduction of people especially in the country - one of which generated the 'Bring back our girls worldwide emotional campaign. Kidnapping is the act of forcibly taking people away against their will. It involves taking victims to a secluded place, placing a call to their loved ones, and demanding a ransom before the victims are set free. Kidnapping may take place for political, financial, religious or emotional reasons. Kidnapping is a punishable offence in Nigeria, as the criminal code act C38 prescribes ten years in prison or life imprisonment as the penalty for this act.

In Nigeria, there are many notorious kidnapping groups which have caused serious and social unrest in the country. The abductions carried out by these groups have attracted the attention and intervention of both local and international organisations. There is many causes of kidnapping. The rate of unemployment in Nigeria is a massive case of kidnapping. Many job seekers see kidnapping as an escape from their suffering. Poverty is another cause of

kidnapping in Nigeria, as many of the extremely poor Nigerians see this criminal activity as a get-rich-quick scheme.

Nonetheless, the solution to kidnapping in Nigeria should be of paramount importance to the government. The government should ensure that there are jobs for people, especially the youths. Jobs will occupy people's minds and attention and also make them to earn money. There should also be intensive educational infrastructure to ensure that people know the law and are trained in one trade or profession. A friendly business environment should be provided as this will help the people to be gainfully employed, and then view kidnapping and other criminal activities with disdain. Religious and political leaders should also educate their followers on the evils of kidnapping. Finally, the government should ensure that law enforcement agents are well-equipped and motivated to secure the lives of citizens and their property.

QUESTIONS

1. What should the government do to stop kidnapping? a. Levy taxes b. Provides jobs for the youths c. Send kidnappers to the university d. Constructed new roads
2. From the passage it can be concluded that all the following have roles to play in stopping kidnapping except ----- a. religious leaders b. kidnappers c. government d. political leaders
3. Which of the following is not true about kidnapping in Nigeria? a. There are international syndicates engaged in kidnapping b. Criminal who want to get rich quickly do engage in kidnapping c. Religious leaders promote kidnapping for ransom d. The commandos is not the only kidnapping group in Nigeria
4. Which word in the second paragraph means 'a sum of money demanded or paid for the release of a captive'? a. Massive b. Extremely c. Scheme d. Ransom
5. 'Notorious' as used in the third paragraph means----- a. Very unpopular b. With a bad reputation c. Simple d. Bitter

SECTION B

Fill in the following gap with the most suitable option

6. A form of imaginative writing that is written in lines and stanza is A. drama B. literature C. poetry D. prose
7. The person that works against the main character is A. protagonist B. antagonist C. cast D. playwright
8. Hurry up, our time is running out. The figure of speech in the above statement is A. metaphor B. personification C. simile D. irony
9. Everybody in Ibadan attended my sister's wedding, the figure of speech herein is A. hyperbole B. paradox C. irony D. euphemism

10. The notorious criminal has been..... to life imprisonment. A. banished B. convicted
C. punished D. sentenced

SECTION C

From the option lettered A-D, choose the one that is most opposite in meaning to the underlined word.

11. I don't like Tolu because of his vulgar jokes. A. exposed B. polite C. lewd D. loud
12. The children were scolded for being indolent. A. diligent B. enthusiastic C. thoughtful
D. careful
13. I have always known him to be courteous. A. wicked B. rude C. lousy D. kind hearted
14. The angry protesters vandalized banks and other public institutions. A. destroyed
B. displaced C. serviced D. scattered
15. A banker should be able to distinguish between and fake notes. A. crisp B. good C.
genuine D. correct
16. Who authored the book titled "Eleventh Hour?" A. Tunde Adepoju B. Tunde Poju C.
Olatunde Olapoju D. Babatunde Poju

SECTION D

From the option lettered A-D, choose the one that is most nearest in meaning to the underlined word.

17. My brother is an unusually audacious boy. A. daring B. clever C. mischievous D. rude
18. The new Principal is quite a stern man. A. wicked B. strong C. terrible D.
strict
19. The criminal was incarcerated. A. arrested B. pardoned C. imprisoned D.
interrogated
20. There was great excitement when Bola Tinubu was declared the new President-elect. A.
dancing B. jubilation C. rowdiness D. commotion
21. Bola vehemently denied stealing the money. A. strongly B. openly C. fearlessly D. strictly

SECTION E

22. Your brother hasn't stopped cheating,.....? A. does he B. isn't it C. has he D. doesn't he
23. The Headmaster wants either Patrick..... Sule as the head boy. A. or B. and C. with
D. nor
24. Umar dislikes that habit of.....A. you B. yours C. your's D. yourself
25. Your sister will get married next month,.....? A. would she B. won't she C. will she D.
isn't it
26. The girl is in our class,? A. does she B. isn't she C. was she D. wasn't she

SECTION F

Choose from the options lettered A-D the word that contains the sound of the phonetic symbol given

27. / / A. Teeth B. Mother C. Breathe D. Brother

- | | | | | |
|------------|--------------|-------------|----------------|------------|
| 28. / ai / | A. mild | B. air | C. bait | D. boil |
| 29. / ts / | A. righteous | B. Ceremony | C. Terrestrial | D. buoy |
| 30. / ds / | A. Gentle | B. Judge | C. Jug | D. Nothing |

HIGHER HEIGHT COLLEGE

ENTRANCE EXAMINATION 2023/ 2024 ACADEMIC SESSION

SUBJECT: MATHEMATICS CLASS: J. S. S TWO DURATION: 2HOURS

NOTE: 1HR 20MINS FOR THE THEORY AND 40MINS FOR THE OBJECTIVES

Choose the correct answer from options a – d in this section

- Express 2.44×10^{-5} in ordinary form
(a) 0.000024 (b) 0.00244 (c) 0.0000244 (d) 0.00024
- Reduce 2kg 50g by 20% (a) 1640g (b) 810g (c) 410g (d) 1kg 10g
- Simplify $9u^2v^5 \times 3uv$ (a) $27v^6u^2$ (b) $12v^6u^3$ (c) $27u^3v^6$ (d) $9u^3v^6$
- Express 90 as a product of its prime factors in index form (a) $2^2 \times 3^2 \times 5$ (b) $2^2 \times 5^2 \times 3$ (c) $2 \times 3^2 \times 5$ (d) $5^2 \times 2^2 \times 3^2$
- Convert 112% to ratio (a) 28 : 25 (b) 7 : 5 (c) 16 : 25 (d) 12 : 28
- Increase 210 goals by 30%
(a) 200 goals (b) 273 goals (c) 70 goals (d) 73 goals
- If $x = 5$. What is the value of $2x^2 + 5 - 3$ (a) 50 (b) 52 (c) 55 (d) -55
- Multiply the LCM of 8, 10 and 12 by its HCF
(a) 120 (b) 240 (c) 360 (d) 80
- Express 15^3 as a whole number (a) 3375 (b) 225 (c) 125 (d) 45

10. Find the simple interest on N2000 borrowed for 6 months at the rate of 4% (a) N4000 (b) N400 (c) N440 (d) N40
11. In issuing a bank draft, a commission of 8% was charged. Calculate the commission on a bank draft of N1 200 000
(a) N200 000 (b) N96 000 (c) N21 000 (d) N196 000
12. Find the cash price after a discount of 8% is offered at a marked price of N1 500
(a) N1380 (b) N1104 (c) 2504 (d) N13800
13. Simplify $\frac{18x^2yz^2}{9x^2y^3z}$ (a) $\frac{2x^2z}{y}$ (b) $\frac{2xz}{y^2}$ (c) $\frac{x^2z^2}{y}$ (d) $\frac{2z}{y^2}$
14. Find the difference between 20.5^2 and 9.8^2
(a) 424.18 (b) 324.21 (c) 342.21 (d) 304.11
15. Find the square root of 11025 (a) 106 (b) 107 (c) 108 (d) 105
16. If $n = 4$, $m = 3$ and $x = 10$ find the value of $\frac{mx+n}{2}$
(a) 20 (b) 34 (c) 17 (d) 30
17. A cloth which cost N12000 was sold for N15000. Find the percentage profit (a) 10% (b) 15% (c) 20% (d) 25%
18. Express 37000 in standard form
(a) 3.7×10^4 (b) 3×10^3 (c) 3.7×10^3 (d) 3.7×10^5
19. Find the smallest number by which 24 can be multiplied to get a perfect square
(a) 3 (b) 4 (c) 5 (d) 6
20. Express 18minutes as a ratio of $1\frac{1}{2}$ hours
(a) 1 : 5 (b) 5 : 1 (c) 18 : 15 (d) 18 : 90
21. A trader bought twelve electronic stoves at a cost of N3600 each. If each stove is sold for N4150. Find the total profit (a) N12600 (b) N6600 (c) N1200 (d) N10600
22. A farmer pays 1% of his income of N45000 for farming a piece of land that he rented. Calculate the amount he paid
(a) N450 (b) N4500 (c) N1400 (d) N40000
23. What is the sum of 6^2 and $\sqrt{361}$
(a) 20 (b) 22 (c) 36 (d) 55
24. Evaluate $18.6 \div 4 \times 1.5$ to the nearest whole number
(a) 2.975 (b) 7 (c) 4.1 (d) 5
25. The wedding expenses of a man is estimated at N85986. If the man saves 12% of his monthly income of N42150, in how many months will he have saved enough money for the wedding?
(a) 17 months (b) 6 months (c) 12 months (d) 11 months
26. Express 2minutes 15 seconds as a fraction of 7 minutes 30seconds
(a) $\frac{2}{5}$ (b) $\frac{1}{8}$ (c) $\frac{3}{10}$ (d) $\frac{8}{11}$
27. Approximate 0.007306 to 2 significant figures
(a) 0.0074 (b) 0.074 (c) 0.0073 (d) 0.0731

28. Solve for y in $6 + y = 18 - y$ (a) 8 (b) 7 (c) 6 (d) 5
29. Simplify $2\frac{1}{5} \div 2\frac{2}{3}$ (a) $\frac{2}{11}$ (b) $\frac{14}{11}$ (c) $\frac{33}{40}$ (d) $\frac{5}{24}$
30. Round off 8243 to the nearest hundred
31. (a) 8000 (b) 8200 (c) 800 (d) 8240

THEORY (Answer any three)

1. A trader saves 5% of his weekly income of N15 000.
 - (a) How much will she be able to save in 12 weeks?
 - (b) What will be her savings in one year?
 - (c) What fraction of the income per week is saved?
2. (a) Express the following in standard form
 - (i) 460000 (ii) 0.0000524 (iii) 5
 (b) Use the factorization method to find the square root of
 - (i) 22500 (ii) 11025
 (c) three children are to share 936 biscuits in the ratio 2 : 3 : 4. How many will each get?
3. (a) Evaluate the following and leave your answer in standard form:
 - (i) $(2.51 \times 10^6) \times (7.63 \times 10^5)$
 - (ii) $(4.08 \times 10^{-8}) \div (3 \times 10^{-6})$
 (b) Round off 147. 006. Correct to
 - (i) 1 s.f (ii) 2 s. f (iii) 3 s. f (iv) 5 s. f
 (c) A trader bought a pair of shoe at the cost of N7400. If it was sold at a loss of N316.50. Calculate the selling price
4. The budget of a family on a salary of N48 200 in a month is as follow: School fees N8400, Clothing N6000, Electricity N1240, Water N800, Savings N7000, House rent N3600, Transport N5000 and Food N14 400.
 - (a) Calculate the total expenses of the family
 - (b) What fraction of the family income is spent on food
 - (c) What amount of the family income can be spent on other expenses or emergencies

HIGHER HEIGHT COLLEGE

ENTRANCE EXAMINATION 2023/2024 ACADEMIC SESSION

SUBJECT: ENGLISH LANGUAGE CLASS: J.S.S. TWO DURATION: 30 MINUTES

Choose the correct answer from options a – d in this section

SECTION A (OBJECTIVE)

COMPREHENSION

Read the following passage carefully and answer The questions that follow

It was the finals of the Principals Cup Competition in Kadara State. The Cup was won by Dandaru team in the previous year. The final match this year was between Dandaru team and Kangaroo team. Both teams were strong teams in the State and had defeated their opponents before they reached the finals.

A week before the match was to take place Kangaroo team coach, Mr. Goddy, had made players practise very hard. They would go to the field in the mornings and evenings to practice. The coach was everywhere on the field giving instructions about what each player should do.

Sometime, he would take the ball himself and teach the boys some little tricks about dribbling the opponent and shooting the ball into the net for goals, 'Go for goals, go for goals' he kept on telling them. He did all these so that his boys could carry the day. The coach of the Dandaru team, Mr. Confidence, was quite confident that his team would win the match, since they won the Cup the previous year. So not much practice was done.

At last, the great day arrived. All the people in the city and neighbouring towns went to watch the match. Kick off time was 4:30p.m. The centre referee was a tall, lanky, bald-headed young man with hawk-like eyes. After a toss of the coin, the match started. Each of the coaches was by the side his team was occupying to give further instruction to players. There were cheers from the spectator as brilliant moves were made by each of the teams' players.

At the 40th minute, Kangaroo teams' captain, Sure dribbled past the two defenders of Dandaru and in anxiety, he shot the ball over the bar. As soon as Sure dribbled past the defenders there were roaring cheers of 'A goal' but when the ball was over the bar, the spectators jeered at Sure. The Dandaru team supporters were quite happy that it turned out the way it did. The match continued and the first half ended goalless.

The second half was much tougher than the first as each team struggled hard to take control of the game. Suddenly the Centre-forward of Dandaru, a small, thickset boy got hold of the ball and started to forge ahead into the stronghold of Kangaroo. He dribbled one, two, three, four, five players and the Dandaru supporters began to shout 'make it a goal.' The boy didn't disappoint them. The confident Confidence' boys and Confidence himself were dazed. Had they not won Cup the previous year? was their thought.

The ball was placed in the centre once and each struggled and struggled to find the net. At the 90th minute, the referee blew the whistle. There was wild jubilation among the Dandaru supporters. match was over. The Kangaroo captain fainted immediately the referee blew the whistle for he could not imagine what has happened

QUESTIONS

1. How did Kangaroo and Dandaru teams get the finals? They got to the finals by a. winning their matches in the previous year b. winning the cup in the matches they played c. defeating their opponents in the previous matches (d) preparing and practising very hard.
2. What was important to Mr. Goddy about the match was (a) scoring goals (b) dribbling the opponents (c) using little tricks (d) tackling opponents
3. Mr. Confidence was confident that his team would win the match because his team (a) was very strong (b) had won the competition the previous year (c) could dribble the opponents well d. had more supporters than the opponent
4. '...hawk-like eyes' The figure of speech used in this expression is (a) personification metaphor (c) simile (d) paradox

5. Sure did not score the first goal after dribbling past the defenders because (a) he was anxious (b) the goalkeeper scared him (c) he shot over the bar (d) he kicked the ball feebly.
6. The spectators jeered at Sure because Sure did not score the first goal after dribbling past the defenders because (a) he was anxious (b) the goalkeeper scared him (c) he shot over the bar (d) he kicked the ball feebly.
7. The spectators jeered at Sure because (a) they didn't like him (b) he dribbled too much (c) he was playing with the ball (d) he did not score the goal
8. "The boy did not disappoint them." This means he (a) acknowledged their cheers (b) waved back to them (c) out dribbled one, two, three, four (d) Scored the goal as they expected.
9. There are wild jubilation among the Dandaru team supporters because (a) the match ended well (b) Dandaru won the match (c) Kangaroo's team captain fainted (d) the referee blew the whistle
10. The Dandaru team won the match because (a) the referee favoured them (b) the spectators jeered at them (c) the players did not know how to dribble (d) the players were confident since they won the cup the previous year.
11. Sure fainted after the referee blew the final whistle because a. his team lost the match b. he was too weak c. he had muscle pull d. the match did not end well

OBJECTIVES

Complete each of the following questions with the most appropriate of the lettered A-E.

12.you mind bringing me these hook on the table? a. Can b. Could C. Shall d. Would
13. I must obtain.....university degree. a. a b. an c. some d. the
14. We.....the senior students recently. a. are seeing b. saw C. seen
15. Nelson has already, in the competition.
a. been run b. ran C. running d. run
16. Our teachers teach very well,..... a. didn't they? b. do they? C. did they? d. don't they?

Complete each of the following questions with the most appropriate of the options lettered a - d

17. The..... president's demise was so sudden. a. anti b. ex c. post d. pre
 18. What prefix can be added to the word "manage" from the list below? a. Dis b. Mis c. Non d. Um
 19. I prefer reading newspapers..... watching television. a. instead of b. more than c. to d. than
 20. Amina: "Would you mind attending my birthday party tonight?" Ngozi: "Yes, I would mind." By this response, Ngozi a. is interested b. will not attend the party c. thinks is necessary to attend c. will attend the party
 21. The expression, "Our teacher is punishing the students" can be changed into passive as, "The students.....punished by the teacher. a. are b. were c. are being d. were being
- From the list of options lettered A-E. choose the name that is nearly opposite in meaning to the word or words underlined in each sentence.**
22. It is obligatory to take part in the march past and not.....a. mandatory b. compulsory c. deliberate d. optional

23. The little boy was frightened by the **strange** faces he saw which were not like.....ones.
a. usual b. common c. known d. familiar
24. I like **trustworthy** people but I detest..... people. a. dependable b. dishonest
hardworking d. indolent
25. In life one has to take the **smooth** with the.....a. coarse b. bad c. fine d. crooked
26. Where others **failed** he..... a. worked b. endured c. succeeded d. persevered
- From the options lettered a - d, choose the one that is nearest in meaning to the word or words underlined.**
27. If you see a **diligent** man, he will stand before kings and not mean men. a. humble b.
well-behaved c. strict d. hard-working
28. The student was advised not to be **insolent**. a. untidy b.
rude c. disobedient d. proud
29. As an hardworking student, I am **sure** I will succeed brilliantly. a. certain b. confident c.
right d. secure
30. The meeting has been **put off** because of the unfavorable situation. a. suspended b.
stopped c. disband d. held
31. The lady **rejected** the gift given to her. a. turn down b. refused c. rebuffed d. tolerated
32. The general said he needed **seasoned** soldiers and not raw ones. a. highly experienced b.
disciplined c. responsible

Section E

Choose from the options labelled a - d the one that contains the phonetic symbol.

33. / / a. bread b. think c. leopard d. seat
34. / / a. tool b. blood c. look d. book
35. / / a. bus b. boss c. don d. knot
36. / / a. judge b. reign c. balm d. night

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HIGHER HEIGHT COLLEGE

THIRD TERM EXAMINATION 2023/2024 ACADEMIC SESSION

SUBJECT: ENGLISH LANGUAGE CLASS: J.S.S. TWO DURATION: 1HR 30 MINUTES

SECTION B (THEORY QUESTIONS)

Answer all questions in this part. For question 1, choose only one question and your essay should be about 200 words long.

Question

Essay (10mrks)

You have moved to a new school but after a few weeks you realised your former school was better. Write a letter to your friend in the former school telling him why it is so.

Or

You are to take part in a debate the topic of which is "A democratic government is better than military government.

GRAMMAR (2mrks allotted to each question)

Write out the sentences below and underline the finite verbs

- I. The students always attend school regularly.

- ii. All the players on the field started to jubilate after the match.
- iii. A candidate in an examination hall is like a boxer in the boxing ring.

State the part of speech of the underline words

- iv. The captain put the duster on the table.
- v. Education is very important.
- vi. Donald visits his parents frequently.

Change the following sentences into the passive form.

- vii. The teacher beat the rude student.
- viii. The thieves broke into the house.