



AIRFORCE SECONDARY SCHOOLS

**ENTRANCE EXAMINATION FOR ADMISSION INTO JSS ONE - 2019/2020
ACADEMIC SESSION**

**SATURDAY, 4TH MAY 2019.
TIME ALLOWED: 2 HOURS**

Do not open this booklet until you are told to do so. While you are waiting, read the following instructions carefully:

1. Use **HB Pencil** throughout the examination.
2. This paper is in 2 sections. Section A (Questions 1 - 50) is Mathematics, while Section B (Questions 51 - 100) is English Language. Attempt all questions in both Sections.
3. Each question is followed by answers identified by letters A, B, C and D. Only one of the answers is correct. Think and work carefully before you make your choice.
4. When you have chosen your answer to a question, turn to the answer sheet to indicate your choice by shading with **HB pencil**. Follow the row of circles beginning with the number of the question you are answering and shade the circle containing the letter of your choice. An example is given below:

Question 12. What is the approximate value of π (pi)?

A. 3.14 B. 3.41 C. 4.13 D. 4.31

Serial 12 on Answer Sheet

[A] [B] [C] [D]

5. You must shade only one circle for each question. If you wish to change your answer, use an eraser to clean your shading completely and then mark the new choice.
6. When you finish answering all the questions and there is time left, read over your work. You will be allowed to take away this question booklet at the end of the examination.

WARNING

**CANDIDATES WHO CHEAT DURING THE EXAMINATION WILL BE
DISQUALIFIED AND HANDED OVER TO THE POLICE.**

SECTION A
MATHEMATICS

1. Write the figure 40050000 in words.
A. Forty thousand and fifty.
B. Four million, fifty thousand.
C. Forty million and fifty.
D. Forty million and five thousand.
E. Forty million, fifty thousand
2. State the place value of 7 in 83 017 264.
A. Thousands. B. Tens. C. Millions. D. Hundreds. E. 10 thousands.
3. What is the place value of 3 in 651 382.7
A. Millions B. Hundredth C. Tenths D. Thousands E. Tens
4. Find the H.C.F of 60, 63 and 72.
A. 20 B. 3 C. 7 D. 8 E. 21
5. Find the L.C.M of 5, 10, and 30.
A. 12 B. 26 C. 24 D. 30 E. 25
6. What is $\frac{3}{40}$ of N200,000?
A. 15000 B. 1500 C. 150 D. 15
7. One of the two factors of 407 is 11. What is the ratio of 11 to the other factor in its simplest form?
A. 11:22 B. 11:32 C. 11:37 D. 11:27 E. 11:17
8. Twenty-five traders share a sum of N1250, which is the gain from the sale of a car. What is the ratio of the money to the traders?
A. 1:N50 B. N250: 5 C. N50:1 D. 25: N12 E. N1250:20
9. A car travels at 120 km per hour. How long will it take to travel 160 km?
A. 45 mins B. $1\frac{1}{2}$ hrs C. $1\frac{1}{2}$ hrs D. 2hrs E. 50 mins
10. Evaluate $9\frac{3}{8} + 10\frac{5}{8}$
A. 20 B. 19 C. 19 D. 20 E. 19
11. The population of Gboko is 150,000 while the population of Otukpo is 1,750,000. Find the ratio of the population of Gboko to Otukpo.
A. 5:17 B. 3:75 C. 2:35 D. 3:35 E. 3:37
12. Express 60 cm as a percentage of 3m.
A. 60% B. 40% C. 100% D. 50% E. 20%
13. The population of a town was 695,024 two years ago. If 89,965 people have moved out of the town and 111,345 have moved in since then, what is the population of the town now
A. 616,404 B. 716.404 C. 404.606 D. 404,617 E. 404.616
14. Nguavese worked $2\frac{1}{2}$ hours on Monday, $4\frac{3}{4}$ hours on Tuesday and $1\frac{1}{2}$ hours on Wednesday. How many hours did she work altogether?
A. $8\frac{7}{12}$ hours B. $7\frac{8}{12}$ hours C. $6\frac{3}{4}$ hours D. $5\frac{1}{3}$ hours E. $8\frac{8}{12}$ hours
15. Mrs. Arop has 835 rolls of lace materials in her store. If she sells one roll for N864.00, how much did she realise on this sales?
A. N721.00 B. N7,214.00 C. N72,144.00 D. N72,144.00 E. N721,440.00

16. A parcel weighs 1.45kg. What is the weight of 18 parcels?
A. 2.61 B. 26 C. 2.6 D. 26.1 E. 0.261
17. Find the area of a classroom whose length is 12 m and width 7 m.
A. 80 B. 84 C. 70 D. 50 E. 60
18. If the area of a square is 196cm^2 , find its perimeter.
A. 14cm B. 56cm C. 22cm D. 4cm E. 24cm
19. There are 15 bags each with 48 sweets. All the sweets are taken out and shared equally among 36 bags. How many sweets are there in each bag?
A. 15 B. 12 C. 20 D. 30 E. 25
20. Find the value of $5\frac{5}{8} + 5\frac{1}{16}$
A. $45/8$ B. $5/16$ C. 8 D. 18 E. 45
21. Evaluate $7^4 \times 4 \div 7^2 \times 2$
A. 2401^2 B. 49 C. 9604 D. 392 E. 98
22. Express 196 as a product of prime factors, leaving your answer in the index form.
A. $2^2 \times 7^2$ B. $2^2 \times 3^2 \times 5^2$ C. $2^2 \times 5^3$ D. $2^4 \times 3^3$ E. $3^4 \times 3^2$
23. The ratio of the length to the breadth of a rectangular table is 2:3. Find the breadth if the length is 2π
A. 2m B. 3m C. 4m D. 5m E. 6m
24. Perform order of operations on $2\frac{1}{2} + (\frac{1}{2} \text{ of } 1\frac{1}{3}) - 1\frac{1}{2}$
A. $1/6$ B. $1/2$ C. $1\frac{2}{3}$ D. 2 E. 5
25. Evaluate $1110_2 + 1101_2$
A. 1010_2 B. 01011_2 C. 11111_2 D. 1001100_2 E. 11011_2
26. A man had taxable income of N1,500 in a year. If he paid tax at the rate of 4k on each Naira, how much tax did he pay that year?
A N375 B. N60 C. N620 D. N224 E. N576
27. A ladder is placed against a wall of a building 20 m above the ground. The foot of the ladder is 15 m away from the bottom of the building. What is the length of the ladder?
A. 25 m B. 15 m C. 18 m D. 22 m E. 20 m
28. Find the perimeter of a triangle whose sides are 3 cm, 4 cm and 5 cm respectively.
A. 6 cm B. 18 cm C. 12 cm D. 36 cm E. 10 cm
29. Calculate the area of a rectangle whose length is 100 cm and breadth 78 cm.
A. 980cm^2 B. 156cm^2 C. $1,560\text{cm}^2$ D. $7,800\text{cm}^2$ E. 144cm^2
30. The areas of a parallelogram and a rectangle are the same. The rectangle measures 10 cm and 8 cm. If one side of the parallelogram is 16 cm. find the corresponding height.
A. 10cm B. 80cm C. 8cm D. 5cm E. 4cm
31. A cylindrical container has a base area of 150cm^2 . It is filled with kerosene up to a height of 9cm. Find the volume of kerosene in the container.
A. 144cm^3 B. 1130cm^3 C. 1350cm^3 D. 360cm^3 E. 603cm^3
32. How many litres will a container 45cm by 80cm by 36cm hold?
A. 120ltrs B. 299ltrs C. 171.5ltrs D. 129.6ltrs E. 151ltrs

SECTION B
ENGLISH LANGUAGE

Read the passages carefully and answer the questions that follow:

PASSAGE A

As the yam festival drew near, the people of Korinya began to make preparations for the big celebration. It was a very important festival which everybody in the village looked forward to. Until the yam festival was over, no Korinya citizen could eat new yam.

Every evening the elders gathered around the village square to share the jobs that had to be done. Some of the men had to build sheds. Others had to clear the two kilometre road leading to the river where the ceremony would end. The women swept the whole village everyday throughout the seven days the festival lasted.

Atumba, the village head, had reminded the people of their customs. First, their houses must be decorated with palm fronds. Secondly, every man had to send two yams to his house, and also bring four-pound weight of dried mud fish and the women will also do the cooking for the entertainment of all visitors.

51. What were the people of Korinya preparing to celebrate?
- A. the yam festival.
 - B. the Christmas.
 - C. the village head.
 - D. four-pound weight of dried mud fish.
 - E. the elders of the village.
52. Why was the festival so important?
- A. without it the people could not eat the new yam.
 - B. Atumba, the village head said so.
 - C. preparation must be made.
 - D. the festival drew near.
 - E. None of the above.
53. Where did the elders of the village hold their meetings?
- A. in Atumba's house.
 - B. in the village market
 - C. by the river.
 - D. in the compound of the village head.
 - E. around the village square.
54. What was the importance of the Korinya River to the festival?
- A. The road leading to the river must be cleared.
 - B. The festival would end there.
 - C. People fetched water from it.
 - D. All the yams were washed there.
 - E. All the fish were killed there.
55. One of the customs of the people during the festival is that
- A. houses must be decorated with palm fronds.
 - B. the village head must sweep the village square.
 - C. no man must eat during the festival.
 - D. only women must eat new yams before the festival.
 - E. none of the above.

PASSAGE B

Apollo 13 set out for the moon with three astronauts: James Lovell, Jack Swigert and Fred Haise. The aim of the trip was to land man on the mountainous part of the moon.

A few days after they set off, tragedy struck. There was power failure and hence all the systems of the ship did not work well. People the world over became afraid. They were afraid as the lives of the astronauts were in danger.

The astronauts themselves summed up courage. Suddenly, there was mid-space explosion as a result of Lovell's quick action. After four harrowing days, the explorers came safely back on earth. They splashed down on the Pacific from where they were taken by helicopter to Sanwa and then by aeroplane to Honolulu.

The Americans, joined by the other people of the world, became very happy. Each of the astronauts received a Medal of Freedom which is America's highest civilian award.

56. Name one of the three astronauts of Apollo 13.
A. James Lovell and Jack Swigert.
B. Jack Swigert and Fred Haise.
C. James Lovell.
D. Fred Haise and Jack Swigert.
E. None of the above.
57. Why was Apollo 13 sent to the moon?
A. To show how powerful Americans are. B. To help the backwards countries of the world
C. To land man on the mountainous part of the moon.
D. To bring some precious metals back to earth.
E. We are not told.
58. Tragedy struck means
A. the astronauts were flying very fast. B. they missed their way.
C. one of the astronauts fell down. D. there was danger.
E. none of the above.
59. What caused the tragedy?
A. One of the astronauts slept too much. B. The Apollo was over loaded.
C. There was power failure. D. The moon was too far.
E. The astronauts were careless.
60. Why were people afraid?
A. There was fear that the astronauts might die.
B. Some enemies wanted to kill the astronauts.
C. Because Russia wanted to attack the ship.
D. If the ship fell on people it would destroy the earth.
E. None of the above.

Choose from the words or group of words that best completes the following sentences.

61. A bird flaps..... wings when it flies.
A. its B. it's C. he's D. his E. their
62. I don't know..... house we are visiting.
A. their B. who C. whose D. them E. who's
63. The nurse put..... Salt in the mouth of the baby.
A. few B. some C. a D. an E. any
64. Last week, I was..... ill that my father had to take me to the hospital.
A. so B. even C. much D. as E. very
65. I asked my friend to me some money for a week.
A. dash B. present C. cash D. lend E. borrow

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