



FACULTY	Commerce, Management and Law		
SUBJECT	Non-Science Related Paper 2		
DATE	19 September 2025		
DURATION	3 Hours	MARKS	100

MATURE AGE ENTRY NUMERACY EXAMINATION

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Moderator: V.J. Undji (University of Namibia)

Instructions:

1. Write your name, surname and student or ID number in the spaces provided for on this question paper.
2. Answer all questions on the question paper.
3. Non-programmable calculators may be used.

PROPOSED QUALIFICATION:.....

INITIAL(S) & SURNAME:.....

STUDENT/ID NUMBER:.....

CENTRE:.....

This question paper consists of nine (9) pages including this cover page

UNIVERSITY OF NAMIBIA MATURE AGE ENTRY EXAMINATIONS

SECTION A

MULTIPLE CHOICE QUESTIONS

[60 MARKS]

Choose the correct answer to the questions that follow by circling only the applicable letter (either a, b, c, or d). Each question is worth two (2) marks.

1. Suppose John wants to tile his bedroom which has a floor area of $20m^2$. One box of tiles contains four tiles of size $50cm \times 50cm$ each. If $1m^2 = 10\,000cm^2$, the total number of boxes of tiles needed for this bedroom are:
a) 25 b) 50 c) 20 d) 10
2. Using the information from **Question 1** above, how much will John spend on tiling his bedroom if one box of four tiles costs N\$ 245.00?
a) N\$ 6 125 b) N\$ 12 225 c) N\$ 4 900 d) N\$ 2 450
3. The relationship between the distance (D), speed (S) and time (T) is given by: $D = S \times T$. If it took an Intercape bus 6 hours and 15 minutes to travel a distance of 500 km from Windhoek to Keetmanshoop, what was the average speed (in km/h) of the bus?
a) 100 b) 91 c) 80 d) 110
4. Using the information given in **Question 3** above, how long (hours) approximately will it take a sedan that travels at 120 km/h between Windhoek and Keetmanshoop?
a) 5 b) 6 c) 3 d) 4
5. If $1 \text{ mile} = 1.60934 \text{ km}$, then the distance (500 km) between Windhoek and Keetmanshoop converted into miles is given by:
a) 331.2706 b) 500.0000 c) 310.6864 d) 495.3732
6. George has twice as many textbooks as John. Peter has five textbooks, which is nine fewer than George's. How many textbooks does John have?
a) 17 b) 22 c) 4 d) 7

7. John earned scores of 85, 92, and 95 on his mathematics tests. How much does he need to score on his next mathematics test so that the average (arithmetic mean) of the four tests scores is 93?
 a) 93 b) 100 c) 85 d) 96
8. Sarah collected 270 used textbooks for donation purposes. She packed them in boxes of 30 books each. How many boxes did she need?
 a) 240 b) 10 c) 9 d) 5
9. Hiskia participated in a dance-a-thon. His team started dancing at 10 A.M. on Friday and stopped at 6 P.M. on Saturday. How many hours did Hiskia's team dance?
 a) 52 b) 56 c) 30 d) 32
10. If one American dollar is worth 105 Japanese yen, how many dollars is 945 yen worth?
 a) 6 dollars b) 9 dollars c) 1 000 dollars d) 99 225 dollars
11. Brayn plough 6 acres in one hour. At this rate, how long will it take him to plough 21 acres?
 a) 3 hours b) 4 hours c) 3.5 hours d) 4.75 hours
12. The price of a box of one dozen donuts doubled over a period of 4 years. Assuming the price continues to double every 4 years and that the price of a box of one dozen was N\$ 1.50 in 2013, how much does a box of one dozen donuts cost in 2021?
 a) N\$ 4.50 b) N\$ 6.00 c) N\$ 8.00 d) N\$ 12.00
13. The low temperature in Windhoek was -8°C . The low temperature in Oshakati was 63°C . What is the difference between two low temperatures?
 a) 55°C b) 71°C c) 61°C d) 14°C
14. The department of Enterprise Development and Management at the University of Namibia had a fundraising goal of N\$ 9 500. By the end of the fundraising, the department had exceeded its goal by N\$ 2 100. How much did the department raise?
 a) N\$ 7 400 b) N\$ 13 600 c) N\$ 10 600 d) N\$ 11 600
15. The area of a square is 36m^2 . What is the length of one side of the square?
 a) 6 m b) 9 m c) 18 m d) 24 m
16. John left Otavi at 2H15 P.M. and arrived in Ondangwa at 4H45 P.M. How long did the drive take him?
 a) 2.5 hours b) 2.3 hours c) 3.25 hours d) 2.75 hours

17. George rolls a die with faces numbered 1 through 6. What is the probability that George rolls a 2?
- a) $\frac{3}{6}$ b) $\frac{1}{6}$ c) $\frac{1}{3}$ d) $\frac{1}{2}$
18. Susan travelled 114 kilometres in two hours. If she keeps going at the same rate, how long will it take her to complete the remaining 285 kilometres of her trip?
- a) 5 hours b) 3 hours c) 7 hours d) 4 hours
19. Fanuel purchased three pairs of pants for N\$ 180 each and five shirts for N\$ 240 each. How much did Fanuel spend?
- a) N\$ 420 b) N\$ 540 c) N\$ 1740 d) N\$ 1860
20. John burns 500 calories per hour bicycling. How long he has to ride to burn 1125 calories?
- a) 3 hours b) 2.5 hours c) 2.25 hours d) 2 hours
21. The total ticket sales for a soccer game were N\$ 1 260; 210 tickets were purchased. If the price is same for all the tickets, what was the cost of a ticket?
- a) N\$ 6.00 b) N\$ 3.50 c) N\$ 10.00 d) N\$ 7.50
22. George took his pulse for 10 seconds and counted 11 beats. What is George's pulse rate in beats per minute? (per minute = p/min)
- a) 210 beats p/min b) 110 beats p/min c) 66 beats p/min d) 84 beats p/min
23. Sarah English quiz scores are 56, 93, 72, 89 and 87. What is the median of her scores?
- a) 72 b) 87 c) 56 d) 85.6
24. Twelve coworkers go out for lunch together and order three pizzas. Each pizza is cut into eight equal slices. If each person gets the same number of slices, how many slices will each person get?
- a) 4 b) 3 c) 5 d) 2
25. The students at the University of Namibia were asked to name their favorite type of pet. Of the 430 students surveyed, 258 said that their favorite type of pet was a dog. Suppose that only 100 students were surveyed, with similar results. About how many students in this survey would say that a dog is their favorite type of pet?
- a) 58 b) 60 c) 72 d) 46

26. The value of a computer depreciates evenly over five years for tax purposes (meaning that every year the computer is worth less by the same amount and that it is worth N\$ 0 after five years). If a business paid N\$ 2400 for a computer, how much will it have depreciated after two years?
- a) N\$ 480 b) N\$ 1 200 c) N\$ 820 d) N\$ 960
27. A national park keeps track of how many people are in each car that enters the park. Today, 57 cars had 4 people, 61 cars had 2 people, 9 cars had 1 person, and 5 cars had 5 people. What is the average number of people per car? Round to the nearest person.
- a) 2 b) 3 c) 4 d) 5
28. A large pipe dispenses 750 gallons of water in 50 seconds. At this rate, how long will it take to dispense 360 gallons of water?
- a) 14 seconds b) 33 seconds c) 24 seconds d) 27 seconds
29. Max goes to the gym every fourth day. Ellen's exercise routine is to go every third day. Let's assume that today is Monday and both Max and Ellen are at the gym. What day of the week will it be the next time they are both at the gym?
- a) Sunday b) Wednesday c) Friday d) Saturday
30. Determine the next number in the following pattern.
320, 160, 80, 40,.....
- a) 35 b) 30 c) 10 d) 20

SECTION B
SHORT QUESTIONS

[40 MARKS]

Show all steps in your calculations; Full marks will be awarded only for correct and well explained answers; Round answers to two decimal places where needed.

1. John's mother is four times as old as John. Five years ago, the mother was seven times as old as John. How old is each now? (8)

2. There are two numbers whose sum is 72. One number is twice the other. What are these numbers? (6)

3. Find the number of units, x , that a company must sell to break even if the profit equation is $P(x) = 600x - 18\,000$. (6)

4. A student chose a number and divide it by 5. Then subtracted it by 154 from the result and got 6. What was the number he chose? (6)

5. At 08h23, John bought 950 fish at a fish market for N\$ 14.65 each. 92 minutes later he sold them all to a supermarket for N\$ 18.55 each.

a) What was the time when he sold the fish? (4)

b) Calculate his total profit. (3)

6. George, Lawrence and John share N\$2500 in the ratio of their ages. George, who is six years old, gets N\$ 600, Lawrence is eight years old.

a) How much does Lawrence get? (3)

b) How old is John?

(4)

Total: 100 Marks

~THE END~