

BUSINESS MATHEMATICS/P1/ 5020
INTERMEDIATE /LEVEL

SOUTH WEST REGIONAL MOCK EXAMINATION TECHNICAL AND VOCATIONAL EDUCATION

The Teachers' Resource Unit (TRU) in collaboration with the Subject Teachers' Association (STA)	Subject Code 5020	Paper Number 1
CANDIDATE NAME	Specialty: All specialties	
CANDIDATE NUMBER	Subject title Business Mathematics	
CENTRE NUMBER	DATE Tuesday, 25/03/2025	
ITVE Level		

Time Allowed: **ONE HOUR 30 MINUTES**

INSTRUCTIONS TO CANDIDATES:

1. USE A SOFT HB PENCIL THROUGHOUT THIS EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
Before the Examination begins:
3. Check that this question booklet is headed "BUSINESS MATHEMATICS 5020 Paper 1".
4. Insert the information required in the spaces provided above.
5. Without opening the booklet, pull out the answer sheet carefully from inside the front cover of this booklet. Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.
6. Insert the information required in the spaces provided on the answer sheet using your HB pencil:
Candidate Name, Centre Number, Candidate Number, Subject Code Number and Paper Number
How to answer questions in this examination:
7. Answer ALL the 50 questions in this examination. All questions carry equal marks.
8. No Calculators are allowed..
9. For each question there are four suggested answers, A, B, C, and D. Decide which answer is correct. Find the number of the question on the Answer sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen. For example, if C is your correct answer, mark C as shown below:

A
B
C
D
10. Mark only one answer for each question. If you mark more than one answer, you will score zero for that question. If you change your mind about an answer, erase the first mark carefully, and then mark your new answer.
11. Avoid spending much time on any question. If you find a question difficult, move to the next question. You can come back to this question later.
12. Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
13. Mobile phones are **NOT ALLOWED** in the examination room.
14. You must not take this booklet and answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.

RU/RPI...../SWATA/BUSINESS MATHEMATICS/ 5020/P1/MOCK 2025

1. The mean of five numbers 2, 4, 8, X and 12 is 7. Calculate the value of X.
A 9
B 10
C 11
D 8
2. 8kg of sugar cost 1120frs, the cost of 15kg will be
A 1650frs
B 2110frs
C 2000frs
D 2100frs
3. The price of a calculator increased from 2000frs to 2500frs. What is the % increase?
A 50%
B 25%
C 20%
D 5%
4. The average of 4 numbers is 56. The average of the first three is 39. What is the 4th number?
A 107
B 95
C 224
D 156
5. A truck consumes 168 litres of fuel for 1400km covered. How many litres will it consume when it covers 950km?
A 141 litres
B 114 litres
C 105 litres
D 95 litres
6. A girl scored 24 marks in an examination which represent 32% considering 50% as pass, how many marks did she need to pass?
A 48 marks
B 37.5 marks
C 30 marks
D 36 marks
7. The ages of two people are in the ratio 2:5. What will be the age of the older person in 10 years given that younger person is now 4 years old.
A 15 years
B 14 years
C 20 Years
D 35 Years
8. A watch is sold for 6600frs, making a profit of 10% on the cost price. Determine the cost price
A 6000frs
B 7200frs
C 7260frs
D 5940frs
9. A student spends 30 000frs from his allowance of 50 000frs and saves the rest. Calculate the % of saving with respect to income
A 60%
B 20%
C 40%
D 25%
10. 600 000frs is invested at 5% P.A, yield a simple interest of 24 000frs. Calculate the duration.
A 288days
B 200 days
C 250 days
D 208 days
11. A cyclist has cover a distance of 50km in two hours. Find his speed.
A 0.64km/hr
B 5/12 km/hr
C 100km/hr
D 25km/hr
12. 10% of a number is 25. Determine the number.
A 125
B 250
C 2500
D 25
13. A bill discounted at 9% for 40 days gives a discount of 2000frs. Calculate the nominal value.
A 100 000frs
B 200 000frs
C 150 000frs
D 250 000frs
14. A capital C invested at 6%PA simple interest for 3 years obtained a future value FV. Express FV as a function of C
A $100/118FV=C$
B $20/21FV=C$
C $FV=18C/100$
D $FV=18C/360$
15. A capital invested at 10% compound interest for two years became 1 210 000frs. Find this capital.
A 968 000frs
B 1 000 000frs
C 1100 000frs
D 1 200 000frs
16. Determine the cost price of a car which was sold for 2 460 000frs at 40%
A 4 200 000frs
B 200 000frs
C 4000 000frs
D 4100 000frs
17. The average wage of five workers is 80 000frs. The average wage of three of these workers is 70 000frs. What is the total wage of 2 of these workers
A 120 000frs
B 160 000frs
C 150 000frs
D 190 000frs
18. 300 000frs was shared amongst Nso, Nsai and Nteli proportional to their ages of 18, 25, and 17 respectively. Nteli will the receive?
A 85 000frs
B 125 000frs
C 95 000frs
D 90 000frs

19. A multiplier coefficient is applied on a cost of 1200 000frs to get a selling price of 1800 000frs. Calculate the coefficient.
- A 1.25
B 1.5
C 1.8
D 1.2
20. Given a full pack of playing cards, the probability that a card other than club is drawn at random is
- A $\frac{1}{4}$
B $\frac{2}{3}$
C $\frac{3}{4}$
D $\frac{1}{52}$
21. A train moving at a speed of 40km/hr uses $2\frac{1}{2}$ hours to reach its destination. The distance covered is expressed as
- A $40/2\frac{1}{2}$
B 40km
C $40\text{km} \times 2\frac{1}{2}\text{hrs}$
D $2\frac{1}{2}/40 \text{ km/hr}$
22. Two pairs of shoes and three pairs of trousers cost 25000frs while 4 pairs of shoes and 5 pairs of trousers cost 43000frs. Determine the total cost of a pair of shoes and trousers
- A 2000frs
B 5000frs
C 7000frs
D 9000frs
23. Share 700 000frs inversely proportional to numbers 2 and 3 gives
- A 260 000, 440 000
B 280 000, 420 000
C 420 000, 280 000
D 320 000, 380 000
24. Calculate the total earnings of a salesman who is paid 100,000frs fixed salary plus 4% commission on sales. His sale for the month was 2 000 000frs.
- A 180 000frs
B 110 000frs
C 210 000frs
D 120 000frs
25. The sum of 2 numbers is 85 and their difference is 35. Calculate the value of the first number.
- A 50
B 60
C 25
D 40
26. A trader grants 5% bonus on all purchases to her customers. If a customer receives 125 000frs as bonus, evaluate her purchases.
- A 500 000frs
B 300 000frs
C 2 000 000frs
D 2500 000frs
27. Express 0.0006512 to 4 decimal places
- A 0.0006
B 0.6512
C 0.007
D 0.000
28. The mean mark of 9 students is 9. A tenth student joins and the new mark becomes 10, the tenth mark is
- A 19.0
B 15.0
C 10.0
D 9.0
29. Two bills of exchange A and B are said to be equivalent if
- A $FVA = FVB$
B $FVA = PVB$
C $PVA = FVB$
D $PVA = PVB$
30. A bill of 120 000frs discounted for 24 days at 9% will yield a discount of?
- A 720frs
B 420frs
C 300frs
D 216frs
31. An article cost 2000 Euro in Spain and 1100 yen in china. If Euro = 600FCFA and 1 yen = 1000FCFA, determine the price difference in FCFA
- A 105 000
B 1 300 000
C 110 000
D 120 000
32. From a pie chart, a house hold spends 120° on breakfast and 110° on lunch and 91 000frs for dinner. Calculate the amounts spend on breakfast.
- A 144 000frs
B 84 000frs
C 98 000frs
D 77 000frs
33. Mrs Tang had 1 300000FRS as credit balance her account on 30/06/2014. She drew a cheque of 400 000frs on supplier Eben. Her balance will be?
- A 1700 000frs
B 1100 000frs
C 90 000frs
D 1715 000frs
34. A bus travels 180KM in 3hrs. Express this speed in M/S
- A 30000m/s
B 1000m/m
C 150m/s
D 900m/s
35. Given the scores 0,1,2,0,7,14,22,6,4,9. The probability that a man scored ≥ 4 is?
- A $\frac{5}{9}$
B $\frac{6}{10}$
C $\frac{1}{2}$
D $\frac{3}{5}$

36. When a bank applies the same interest rate on debit and credit balances. It practices
 A Reciprocal rate
 B Direct rate
 C Indirect rate
 D Non reciprocal rate
37. A bill of 600 000frs maturing in 50days is replaced by a cash payment of 595 000frs. The discount rate will be?
 A 16%
 B 25/3%
 C 6%
 D 4%
38. Share 600 000frs profit between two partners A and B proportionately to their contributions of 1400 000FRs and 1600 000frs respectively into a business. What will A receive?
 A 320 000frs
 B 200 000frs
 C 180 000frs
 D 280 000frs
39. Calculate the length of a rectangular piece of land whose width is 10m and perimeter 60m.
 A 6m
 B 20m
 C 120m
 D 60m
40. The median of the following scores 5,8,6,9,8,6, 8 and 6 is
 A 5
 B 6
 C 8
 D 12
41. If Euro = 120frs and \$ = 1Euro, find value of \$ 12000 in FCFA
 A 32 000
 B 2 300
 C 4 500
 D 144 000
42. A trade bought goods and received 10% discount. If he paid 90 000frs, then the marked price was?
 A 95 000frs
 B 110 000frs
 C 120 000frs
 D 100 000FRS
43. Determine the investment time from 1st February 2012 to 1st May 2012
 A 91 days
 B 88 days
 C 90 days
 D 89 days
44. If the ratio between the cost price and selling price of a given article is 20%, then evaluate the ratio of profit on the sales.
 A 3/5
 B 4/5
 C 5/6
 D 6/8
45. John left kumba for Buea at 8:05am riding at an average speed of 40km/hr arrived Buea at 9:50am. What is the distance from kumba to Buea?
 A 70km
 B 72 km
 C 75km
 D 80km
46. A man earns an annual salary of 1 352 000frs. His weekly salary is.
 A 32 000frs
 B 30 000frs
 C 112 000frs
 D 26 000frs
47. Mr Nico exported coffee to Britain and received 39 000 000frs. If the exchange rate is €1=800frs, then his buyer paid
 A €4800
 B €48500
 C €48250
 D €48750
48. Simplify

$$\frac{0.011 \times 0.9}{0.25 \times 0.04}$$

 A 9.9
 B 99
 C 0.099
 D 0.99
49. Write in figure, one million six hundred and four francs
 A 1 006 004frs
 B 1 060 040frs
 C 16 000 004frs
 D 1 006 040frs
50. A product sold at 150 000frs had a profit of 30 000frs. Determine the mark up on cost.
 A 15%
 B 20%
 C 25%
 D 30%

END.

GO BACK AND CHECK YOUR WORK