NAME: _____

YEAR: _____

LABASA SANGAM (SKM) COLLEGE

HOME STUDY PACKAGE

YEAR 11 APPLIED MATHEMATICS

WORKSHEET 1

Instructions:

- Write the answers in the space provided.
- **File the lesson notes.**
- Return the ***worksheet only***

Week 13 Activity

STRAND 6: TRIGONOMETRY

SUB STRAND: TRIGONOMETRIC GRAPHS

1.   A trigonometric graph has the equation $y = 3 \cos 2\theta$

    a)   State the amplitude of this graph.   (1 mark)

    b)   What is the period of this graph?   (1 mark)

    c)   Sketch the graph for $0^0 \leq \theta \leq 360^0$ (2 marks)

2.   Sketch the graph of the function y = – 2 sin 2θ for $0^0 \leq \theta \leq 360^0$ (2 marks)

3.   Solve the following trigonometric equations:

a)   2 sin x = 1   (2 marks)

b)   2 – cos θ = 1   (2 marks)

LABASA SANGAM (SKM) COLLEGE

HOME STUDY PACKAGE

YEAR 11 APPLIED MATHEMATICS

WORKSHEET 2

Instructions:

- Write the answers in the space provided.
- **File the lesson notes.**
- Return the ***worksheet only***

Week 14 & 15 ACTIVITY

STRAND 7: STATISTICS

SUB STRAND: ANALYSIS AND INTERPRETATIO OF STATISTICAL DATA

1.   Seven students sat for a test. Their scores were 100, 50, 45, 40, 80, 75, 45

Find

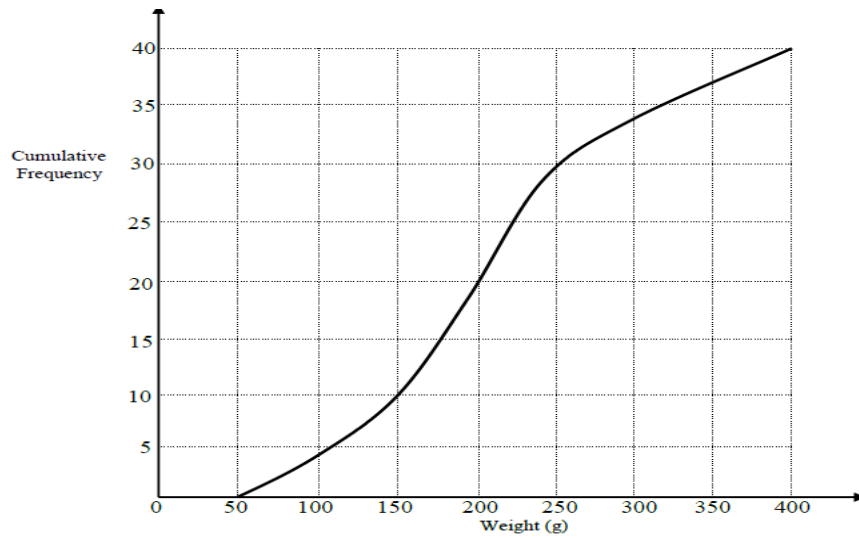a)   mean   (1 mark)

b)   median   (2 marks)

c)   mode   (1 mark)

d)   range   (1 mark)

2.   A sample of pebbles was collected from a beach and their weights were recorded.

The cumulative frequency graph given below shows the results.

Use the graph to find:

a)   median   (1 mark)

b)   inter –quartile range   (2 marks)

c)   number of pebbles that weigh more than 150 g.   (2 marks)

YEAR 11 MATHEMATICS LIFE SKILLS

WORKSHEET 2 (WEEK 14)

Strand 4: Trigonometry in Everyday Context

10
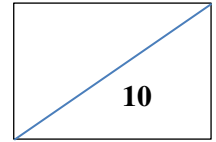
Note: Refer to the lesson notes of week 13-15.

1. A 3 m ladder makes an angle of $30°$ with the wall.

ladder   30°   Wall
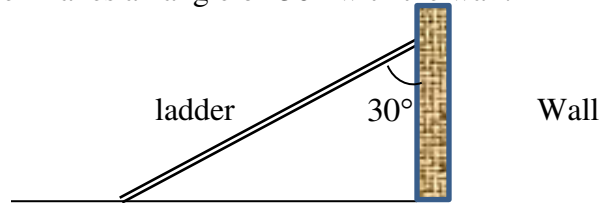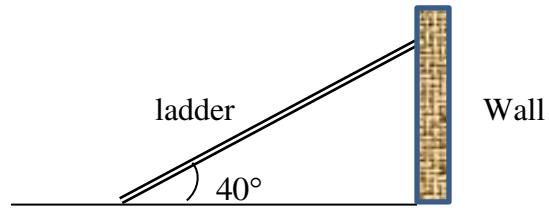
a) How far up the wall does the ladder reach?

(1 mark)

b) How far is the foot of the ladder from the wall?

(1 mark)

2. A ladder makes an angle of 40° with the ground and it reaches 2.5 m up the wall.

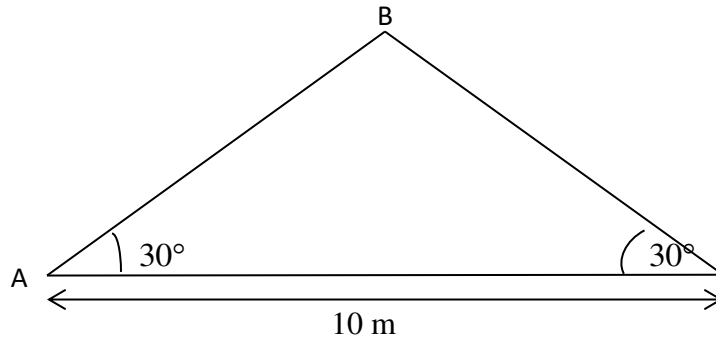a) Find the length of the ladder?

(1 mark)

b) How far is the foot of the ladder from the wall?

(1 mark)

3. At a certain time of the day a post , 5m tall , casts a shadow of 2m. What is the angle of   elevation of the sun at that time?

(1 mark)

4. A carpenter wants to make a roof pitched at $30°$ as shown.

Find the length of the beam AB.

(3 marks)

5. A person standing 10 m away from a tree observes the top of the tree at an angle of elevation of $45°$. If the person is 1.5 m tall, what is the height of the tree?

(1 mark)

6. A tree 6m high casts a shadow 4m long. What angle do the sun's rays make with the ground?

(1 mark)

HOME STUDY PACKAGE

LABASA SANGAM COLLEGE

WORKSHEET12 -BIOLOGY -10 MARKS

NAME: _____   DUE DATE : 19/10/2021

YEAR: _____

1. Define balance diet (1mark)

   _____
   _____

2. In which form is carbohydrate stored in the liver (1mark)

   _____
   _____

3. Differentiate between Deficiency   and Communicable Diseases (2marks)

   _____
   _____
   _____

4. Give two examples of no communicable and communicable disease (3 marks)

   _____
   _____
   _____

5. List down the ABC's of first aid (3marks)

   _____
   _____
   _____
   _____
   _____

LABASA SANGAM (SKM) COLLEGE

HOMESTUDY PACKAGE 5

WORKSHEET NO: 1   **STUDENTS NAME:_____**

SUBJECT: ACCOUNTING   **YEAR 11_____**

DUE DATE: 18/10/2021

Total marks: 10   **Weighting: 5%**

Instructions :

   I.   Write the answers in the space provided at the back of this page.
  II.   File the lesson notes.
 III.   Return the ***worksheets only*** on the due date as stated above.

WEEK 13

  1. Explain the purpose of each of the following;
  a) Gross profit ratio

_____

_____

_____

  b) Mark up ratio

_____

_____

_____

  c) Debt to equity ratio

_____

_____

_____

  d) Debtors turnover

_____

_____

_____

                                                  (4 marks)

  2. State two limitations of analysis and interpretation of financial statements.
     a)

_____

_____

b)

_____

_____

_____ (2 marks)

3. Name two ratios that fall under the category of financial stability ratio .

_____

_____ (2 marks)

4. State two limitations of Ratio Analysis.

i)

_____

_____

ii)

_____

_____

(2 marks)

LABASA SANGAM (SKM) COLLEGE

HOMESTUDY PACKAGE 5

WORKSHEET NO: 2   **STUDENTS NAME:_____**

SUBJECT: ACCOUNTING   **YEAR 11_____**

DUE DATE: 18/10/2021

Total marks: 10   **Weighting: 5%**

Instructions :

  I.   Write the answers in the space provided at the back of this page.
  II. File the lesson notes.
  III. Return the **_worksheets only_** on the due date as stated above.

<u>**WEEK FOURTEEN**</u>

The following information given below has been extracted from the books of Singh Enterprises for the year ending 30th June 2020.

Statement of Financial Performance of Singh Enterprises For The Year Ended 30th June 2020

	$
Sales (all credit)	90 000
Less cost of goods sold	54 000
Gross profit	36 000
Less operating expenses	10 400
Net profit	**25 600**

Statement of Financial Position of Singh Enterprises as at 30th June 2020

	$	**$**	**$**
Capital at the beginning		28 400	
Add net profit		25 600	
		54 000	
Less drawings		5 300	
Capital at end			**48 700**
Current asset			
Accounts receivable	26 000		
Inventory	43 600	69 600	
Less current liabilities			
Accounts payable	19 400		
Bank overdraft	10 300	29 700	
Fixed asset			
Equipment (net)		13 900	

			53 800	
Long term liabilities				
Mortgage			<u>5 100</u>	
				<u>**48 700**</u>

Additional Information

    a) Opening accounts receivable on 1st July 2019 was $24 000.
    b) The business operates for 300 days in a year.

Required

Using the information given, calculate the following ratios and percentages (correct to **two decimal places**) for the year ending 30th June 2020. **Show the formula and full working.**

	Ratios /percentages	Formula	Working	Answer
(a)	Net profit percentage			
(b)	Mark up percentage			
(c)	Acid test ratio			
(d)	Working capital in dollars			

(e)	Rate of return on owners equity			5
(f)	Debt ratio			
(g)	Proprietorship ratio			
(h)	Accounts receivable turnover in days			
(i)	Debt to equity percentage			
(j)	Working capital ratio			

(10 marks)

FORMATIVE ASSESSMENT TWO

SHORT TEST

ACCOUNTING

YEAR 11

TOTAL MARKS: 20

NAME: _____   **Weighting: 20%**

Year 11__   **Due Date: 18/10/21**

Instructions :

   I.   Write the answers in the space provided.

   II.   Return the ***short test*** on the due date as stated above.

PART A   MULTIPLE CHOICE   (5 MARKS)

1.   Which of the following indicates the short term financial stability of the business?

    A.   Net profit ratio

    B.   Working capital

    C.   Return on Total assets

    D.   Debtors Turnover

2. Raki's Enterprise's financial position as at 31 December, 2013 was:

Current Assets $45000	Fixed Assets $125000
Current Liabilities $22000	Term Liabilities $38000
Capital – Sami $110 000	

From the above information, the Debt to Equity percentage of the business would be:

A. 64.70 %

B. 54.55 %

C. 34.54 %

D. 20.00 %

3. One of the limitations of analysis and interpretation of financial statements is that it

A. allows comparison

B. helps in making decisions

C. is based on historical cost

D. helps to identify strengths and weaknesses

4. The following information concerns a local business as at 30th June 2014

Total assets	$500 000
Non-current assets	$350 000
Current liabilities	$50 000
Equity ratio	0.75:1

Calculate the current ratio for the business

A. 0.33:1

B. 0.46:1

C. 2.33:1

D. 3.0:1

5. Young had the following account balances: Sales $160 000, COGS $46 000, total expenses $6 240.

What was his net profit percentage?

A. 63.50%

B. 59.5%

C. 67.35%

D. 28.75%

6. State what each group of ratios listed below measure:

    i)   Financial Stability ratios

_____

_____

_____

    ii) Management Effectiveness ratios

_____

_____

_____

(2 marks)

7. State a ratio that is important in evaluating the short term financial stability of the business.

_____   (1 mark)

8. CK's business operates in Suva. Given below is the Statement of Financial Position as at 31st October 2014.

	$	$	$
Proprietorship			
Capital – Kaila Yee		100000	
Add Net profit		40000	
Less Drawings		10000	130000
Represented by:			
Assets			
Cash	40000		
Accounts Receivables	35000		
Property & Equipment	125000		
Inventory	10000	210000	
Less liabilities			
Creditors	25000		
Loan (Payable in 5 yrs)	55000	80000	
			130000

Additional Information

1. Sales all credit $200 000
2. Gross profit $44 000
3. Opening stock $38 000
4. Account Receivables 31st October 2013 $33 000

Required:

a) Using the information above, calculate the following ratios and percentages for the year 2014. Show the formula and full working.
1. Gross profit to sales ratio
2. Net profit to sales percentage
3. Acid test ratio
4. Rate of stock turnover (days)
5. Accounts Receivable turnover
6. Working capital in dollars

7. Mark up- ratio

8. Working capital percentage

Ratios /percentages	Formula	Working	Answer
Gross profit to sales ratio			
Net profit to sales percentage			
Acid test ratio			
Rate of stock turnover in days			
Accounts receivable turnover			
Working capital in dollars			
Mark up- ratio			
Working capital percentage			

(12 marks)

27TH Sep -1st Oct

NAME:_____   YEAR: 11___ **(10 MARKS)**
DUE DATE: 19/10/21

LIVESTOCK PRODUCTION

1. List 2 requirements of livestock.   **(2 marks)**

    1._____

    2._____

2. Differentiate between **intensive and extensive** systems of raising livestock **(2 marks)**

    _____
    _____
    _____
    _____

3. State 1 challenges faced by the livestock industry with solutions **(1mark)**

    _____

4. State the **use** and **source** of the following:

FEED	USE	SOURCE
Water		
Energy		
Protein		

(3 marks)

5. Differentiate between **pasture mating and hand mating**.   **(2 marks)**

    _____
    _____
    _____
    _____

LABASA SANGAM (SKM) COLLEGE
HOME STUDY PACKAGE – YEAR 11 AGRICULTURE
WORKSHEET 14-15
(Based on notes Week 14-15)

4TH- 8TH Oct

NAME:_____   YEAR: 11___ **(10 MARKS)**
DUE DATE: 19/10/21

LIVESTOCK PRODUCTION

1. State **one reason** behind the following practices   **(2 marks)**

   (a) Identification
   _____
   _____

   (b) Dehorning
   _____
   _____

2. Complete the table on animal diseases   **(2 marks)**

Disease	cause	symptoms	treatment	prevention
Enterotoxaemia				

3. State 2 effects of transport and movement on animals **(2 marks)**

   1._____

   2._____

4. Explain the following processes in milking of dairy does.   **(2 marks)**
   A. Cleaning
   _____
   _____

   B. Stripping
   _____
   _____

5. Name 1 product formed by fermenting milk.   **(1 mark)**

   _____

6. Describe the FIRST step involved in slaughtering animals for meat.   **(1 mark)**

   _____
   _____

HOME STUDY PACKAGE

School: Labasa Sangam(SKM) College   Year/Level: 11C/D/E
Subject: Applied Technology   Student Name: _____
Worksheet Number: 1-2 Week: 14   Date: 4th -8th October 2021

Due Date: 18th October 2021.

Question 1.

1. **Define the following terms**.
   Expansion Valve

   _____
   _____
   _____ (1mark)

   Condenser

   _____
   _____
   _____(1mark)

2. **Label the diagram given below.**
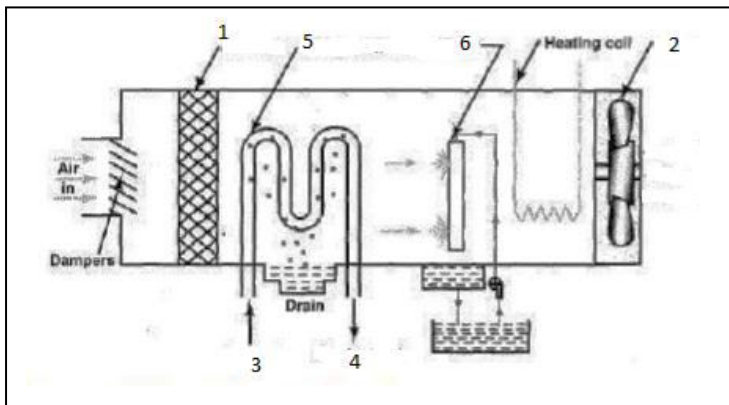
1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____

   State the function of diagram given   below.   (6marks)

a) _____
b) _____
c) _____
d) _____
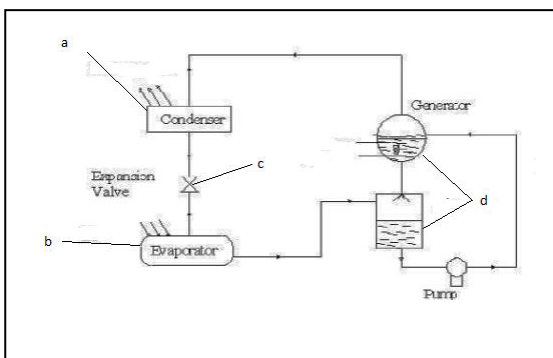
(2 marks)
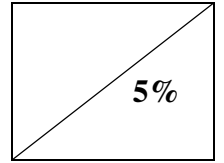
QUESTION: 2   (10 MARKS)

5%

Define the following terms given below

1. **Absorber**

    _____
    _____

    (1mark)

2. **Generator**:

    _____
    _____

    (1mark)

3. **Relative Humidity**

    _____
    _____

    (1mark)

4. **Tube Cutter**

    _____
    _____
    _____

    (1 ½ marks)

5. **Swaging Tool**

    _____
    _____
    _____

    (1 ½ marks)

B. Draw a layout of a window room air conditioner in the space provided.

(4marks)

10

LABASA SANGAM (SKM) COLLEGE

YEAR 11 CHEMISTRY

NAME: _____   YEAR: _____

WORKSHEET 13 (pages 17-26 strand 4 Materials notes)   **[10 MARKS]**

Duration: 1 Week   Due Date: 18/10/21

1. Complete the reactions given below; the first one is done for you.

    $2Mg_{(s)} + O_{2\ (g)} \rightarrow 2MgO_{\ (s)}$

    $4Al_{(s)} + 3O_{2\ (g)} \rightarrow$ _____ $_{(s)}$ **(1 mark)**

2. Complete the reactions given below; the first one is done for you.

    $Na_2O_{\ (s)} + H_2O_{\ (l)} \rightarrow 2NaOH_{\ (aq)}$
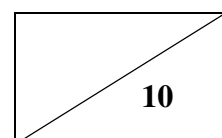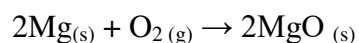
    $MgO_{\ (s)} + H_2O_{\ (l)} \rightarrow$ _____ $_{(aq)}$ **(1 mark)**

3. Complete the reactions given below; the first one is done for you.

    $Al_2O_{3\ (s)} + 6HCl_{\ (aq)} \rightarrow 2AlCl_{3\ (aq)} + 3H_2O_{\ (l)}$

    $CuO_{\ (s)} + 2HCl_{\ (aq)} \rightarrow$ _____ $_{(aq)} + H_2O_{\ (l)}$ **(1 mark)**
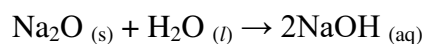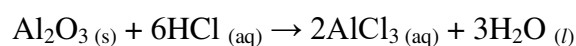
4. State the **impact** of CO_2 on the environment.

    _____

    _____ **(1 mark)**

5. State the **equation** for the preparation of CO_2 gas.

    _____ **(1 mark)**

6. Describe **carbon monoxide poisoning**.

    _____

    _____

    _____ **(2 marks)**

7. Name the **apparatus** used for separating alkanes.

    _____ **(1 mark)**

8. **Define** hydrocarbons.

    _____

    _____ **(1 mark)**

9. **Define** polymerisation.

    _____ **(1 mark)**

LABASA SANGAM (SKM) COLLEGE

YEAR 11 ECONOMICS WORKSHEET

HOME STUDY PACKAGE-5

Worksheet Number :1   **Name of the Student:** _____

Due Date: 27th September,2021   **Year:** _____

1. Define Free trade.

_____
_____
_____(1mark)

2.State two advantages of free trade.

_____
_____
_____
_____
_____(2marks)

3.State two disadvantages of free trade.

_____
_____
_____
_____
_____(2marks)

4. Define Protection.

_____
_____
_____(1mark)

5. State two reasons for protection

_____
_____
_____
_____
_____(2marks)

6. State two effects for protection

_____
_____
_____
_____
_____(2marks)

YEAR 11 ECONOMICS WORKSHEET

HOME STUDY PACKAGE-5

Worksheet Number :2   **Name of the Student:** _____

Due Date: 27ᵗʰ September,2021   **Year:** _____

Question

"while developing countries like Fiji is enjoying benefits from free trade , they also need some form of protection".

With reference to the above statement ,discuss:

- **Three** forms of protectionism.
- **Three** reasons in favour of protectionism.
- **Three** arguments against protectionism if Fiji is ever to compete with developed countries.

_____
_____
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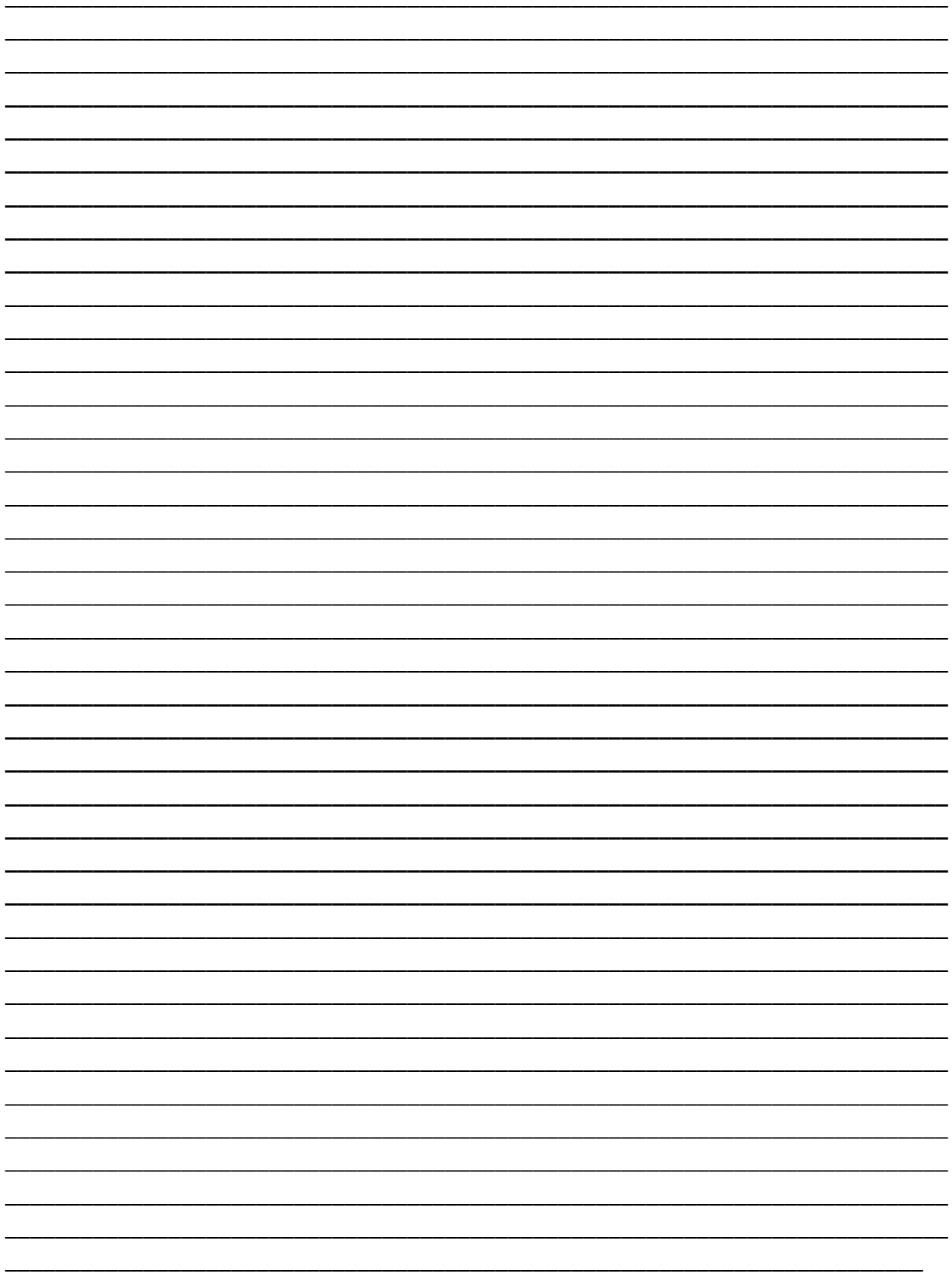
NAME: _____

YEAR 11____

LABASA SANGAM (SKM) COLLEGE
YEAR 11 GEOGRAPHY HOME STUDY PACKAGE
TOPIC 4: VEGETATION
WEEK 10,11 &12

1. What is vegetation?   **(10 Marks)**

_____

_____ (1 mark)

2. Differentiate between **native plants** and **exotic plants** with **examples**

_____

_____ (2 marks)

3. List 4 important functions of vegetation in the ecosystem

_____

_____

_____

_____ (2 marks)

4. Name 3 native trees and 3 exotic trees in Fiji

_____

_____

_____ (2 marks)

5. Name 3 factors that affect vegetation distribution

_____

_____

_____ (2 marks)

6. Name the 5 types of vegetation regions

_____

_____ (1 mark)

…THE END…

LABASA SANGAM (SKM) COLLEGE

YEAR 11 GEOGRAPHY HOME STUDY PACKAGE

TOPIC 4: VEGETATION

WEEK 10,11 &12   **(10%)**

1. Discuss how the altitude and latitude affects vegetation distribution

_____

_____ (1 mark)

2. Explain the relationship between **precipitation** and **vegetation**

_____

_____ (1 mark)

3. List 3 characteristics of a tropical rainforest

_____

_____ (2 marks)

4. Where will you find tundra forest? State one of its features

_____

_____ (2mark)

5. Name 3 characteristic of coniferous forest

_____

_____(2 marks)

6. **Definitions**

a. Canopy -

_____

_____ (1 mark)

b. Epiphytes -

_____

_____ (1 mark)

THE END

BATCH 5   NAME:-------------------------------------   YEAR : ------------

DUE DATE: 19th october

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○℘ मनुष्य जिंदा लाश सा क्यों बन जाता है ?   ☺ॲॐ& ○☺

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O. मनी सिंह   की परेशानी क्यों ओर ज्यादा बढ़ गई थी ?   ☺ॲॐ& ○☺

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○℘मनी सिंह ने सूवा जाकर नेटिव लैंड ट्रस्ट बोर्ड के दरवाज़े बार-बार क्यों खटखटाए?
☺ॲॐ& ○☺

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◉℘तापा का टुकड़ा देख कर "बहुत सुन्दर" किस ने कहा था ✎   ☺ॲॐ& ○☺

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◎℘ अन्दर से मेरी बांसुरी उठा लाओ'| यह वाक्य किसने किस्से कहा था ?   ✎
☺ॲॐ& ○☺

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○℘ रमलू मतंगाली के जोनाते,कीनी ,मोसेसेआदि कईवीतियों को आते देख नंदू क्यों घबरा
   गया ✎   ☺ॲॐ& ○☺
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बको नहीं हिन्दुस्तानी लीज़ मांगों ,ज़मीन नहीं |” ये शब्द किसने कहे थे

मृग तृष्णा किसे कहते हैं ?

नवाइदोम्बा जाते-जाते श्याम सिंह अपने मरने के बाद आत्मा को शांति के लिए नंदू को क्या करने के लिए बता रहा था ?

YEAR 11 HISTORY ASSESSMENT

WORKSHEET 14

GOVERNMENT AND GOVERNANCE: UNIT 1-6

SECTION A: SHORT ANSWER QUESTIONS (10 Marks)

Use your knowledge of the topic to answer the questions that follow. Each question is worth two marks each. Write 1-3 sentences.

1. Explain the significance of a person's participation in an election? **(2 Marks)**

   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____

2. State the Act that allowed for the establishment of the Fijian Administration? **(2 Marks)**

   _____
   _____
   _____
   _____
   _____
   _____

_____

_____

_____

_____

3. Name the political Party that won the General Election of 1999?   **(2**

   Marks)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

4. Describe a role of the Attorney General.   **(2 Marks)**

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

5. State one of the major courts in Fiji?   **(2 Marks)**

_____

_____

_____

_____

_____

_____

_____

THE END

LABASA SANGAM (SKM) COLLEGE

HOME ECONOMICS

Name: _____   **Year: 11____**

TOTAL MARKS: 10   **WEIGHTING :5 %**

NOTE:
1. *Write all your answers in the space provided.*
2. *Always use your text book for reference.*
3. *Return the completed worksheet on the 18th of October 2021(Worksheets 10- 12)*
4. *For further enquires, do not hesitate to ask me and write your name on every page.*
5. *There is no need for you to rewrite the summarised notes. File them properly and neatly.*

WORKSHEET 13

1. Name any **two** types of fasteners

   _____   _____

                                                                (1 mark)

2. Define the term **Fasteners**

_____

_____

_____

                                                                (1 mark)

3. State **two** points to consider when selecting a garment with a zip.

(i) _____

   _____

(ii) _____

_____

                                                                (2 marks)

4. State **two** tips on how to take care of the zip

(i) _____

_____

(ii) _____

_____

<div align="right">(2 marks)</div>

5. A nylon fastener consists of **two** parts. Name those parts.

(i) _____   (ii) _____

<div align="right">(1 mark)</div>
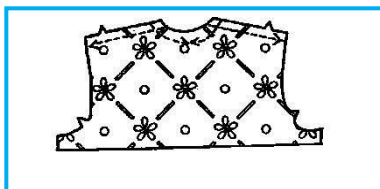
6. Explain any **three** rules for sewing on buttons.

(i) _____

_____

(ii) _____

_____

(iii)_____

_____

<div align="right">(3 marks)</div>
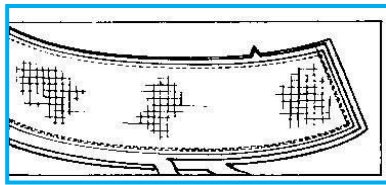
WORKSHEET 14

1. Explain the purpose of a shank.

_____

_____

<div align="right">(1 mark)</div>

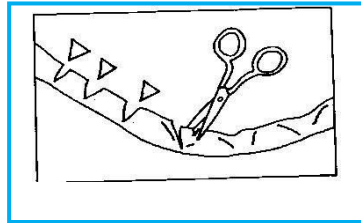2. Identify and explain the techniques shown below

_____

_____

_____

(ii)

_____

_____

_____

(iii)

_____

_____

_____

(6 marks)

3. Name the **three** types of seams

(i) _____

(ii)_____

(iii)_____

(3 marks)

SHORT TEST
HOME ECONOMICS

Name: _____   **Year: 11____**

TOTAL MARKS: 20   **WEIGHTING :20 %**

NOTE:
1. *Write all your answers in the space provided.*
2. *You may use your text book for reference.*
3. *Return the completed worksheet on the 18TH of October   2021 with Worksheets 13- and 15*
4. *For further enquires, do not hesitate to ask me and write your name on every page.*
5. *This open book test is based on Strand 3 – the notes that we have covered so far.*

1.   Explain the function of a care label.

_____

_____

(1 mark)

2.   Write any **three** methods of straightening the fabric

(i) _____

_____

(ii)_____

_____

(iii)_____

_____

(3 marks)

3. Explain the function of mordant in tie dyeing and give an example of mordant.

_____

_____

(1 mark)

4. State the function of the following parts of a sewing machine.

i) Bobbin winder_____

_____

ii) Feed dog _____

_____

(2 marks)

5. Identify the **two** traditional Fijian artefacts that are still prepared by the I- Taukei.

(i) _____

(ii) _____

(2 marks)

6. State the use of the following types of sewing machines:

(i) Over locker_____

_____

(1 mark)

(ii) Treadle sewing machine _____

_____

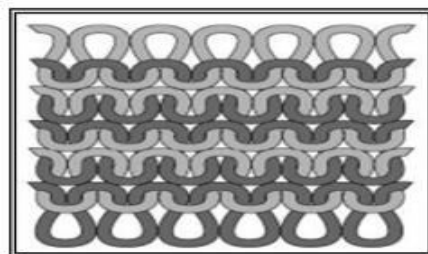(1 mark)

6.   Explain the function of a **buttonholer.**

_____

_____

(1 mark)

7.   Study the picture below and answer the following questions.

Source: Year 11Home Economics
Textbook

(i) Identify the type of knitting illustrated in the picture.

_____

(1 mark)

(ii) State **two** properties of knitted fabrics that make it a popular wear.

1. _____

_____

2._____

_____

(2 marks)

8. Sewing machines need regular oiling.

(i) Explain the purpose of oiling sewing machines.

_____

_____
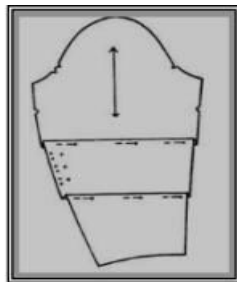
(1 mark)

(ii) Why is it important to run the machine after oiling on scraps of material prior to the actual

sewing?_____

_____

(1 mark)

9. Alterations have been made to the sleeve pattern shown below.

Source: Year 11 Home Economics Textbook

(i) Describe the procedure used in altering the sleeve pattern above.
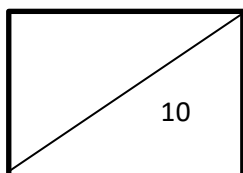
_____

_____

_____

_____

(2 marks)

(c) French seams are considered to be strong seams.

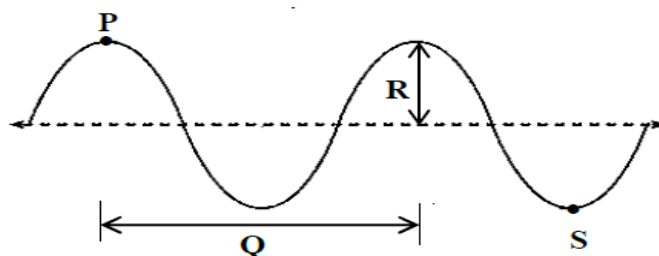 Name one garment where the French seam is most useful.

_____

(1 mark)

6

Name:_____

Year:_____

LABASA SANGAM (SKM) COLLEGE
HOME STUDY PACKAGE WEEK 13
YEAR 11 PHYSICS
WORKSHEET 1 (weighting 5%)

1.   Which of the following letters in the diagram given below best represents the wavelength?   **(1 mark)**

   A.   P   B.   Q   C.   R   D.   S
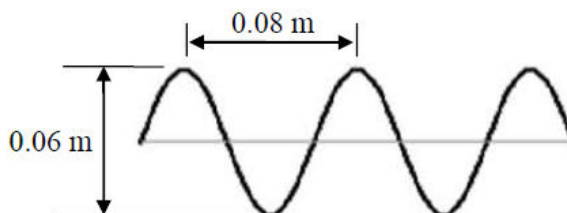
2.   The abbreviation Hz represents the unit for   **(1 mark)**
   A.   speed.   B.   energy.   C.   frequency.   D.   wavelength.

3.   What is the amplitude of the wave in the diagram shown below?   **(1 mark)**

   A.   0.03 m
   B.   0.04 m
   C.   0.06 m
   D.   0.08 m

4.
   Which of the following is a longitudinal wave?   **(1 mark)**

   A.   ripples in a pool of water   B.   waves on a string
   C.   light waves   D.   sound waves

5.   A sound wave of frequency 500 Hz in water has a wavelength of 200 cm.
   i)   Define the term frequency.

   _____

   _____

   _____**(1 mark)**

   ii)   Determine the period of sound wave in water.

   _____

   _____

   _____

   _____

   _____**(1 mark)**

1.

iii) Calculate the speed of sound wave in water in m/s.

_____

_____

_____

_____

_____

_____**(1 mark)**

6. Give a difference between the transverse and longitudinal waves.

_____

_____

_____

_____**(1 mark)**

7. An echo sounder on a fishing boat finds that sound waves return from the ocean floor after 0.3 s.

i) While finding the distance of the travelled sound wave using the formula $d = v \times t$, why d is always doubled?

_____

_____

_____

_____

_____**(1 mark)**

ii) If the speed of sound in water is 1450 m/s, find the depth of the ocean floor.

_____

_____

_____

_____

_____

_____

_____**(1 mark)**

2.

NAME: _____

YEAR: _____

School: Labasa Sangam(SKM) College

Subject: Technical drawing

Week :14/Worksheet:1-2

Year/Level:11C/D/E

Due Date:18th October 2021

Date:4th October -8th October 2021

QUESTION: 1

GIVEN:

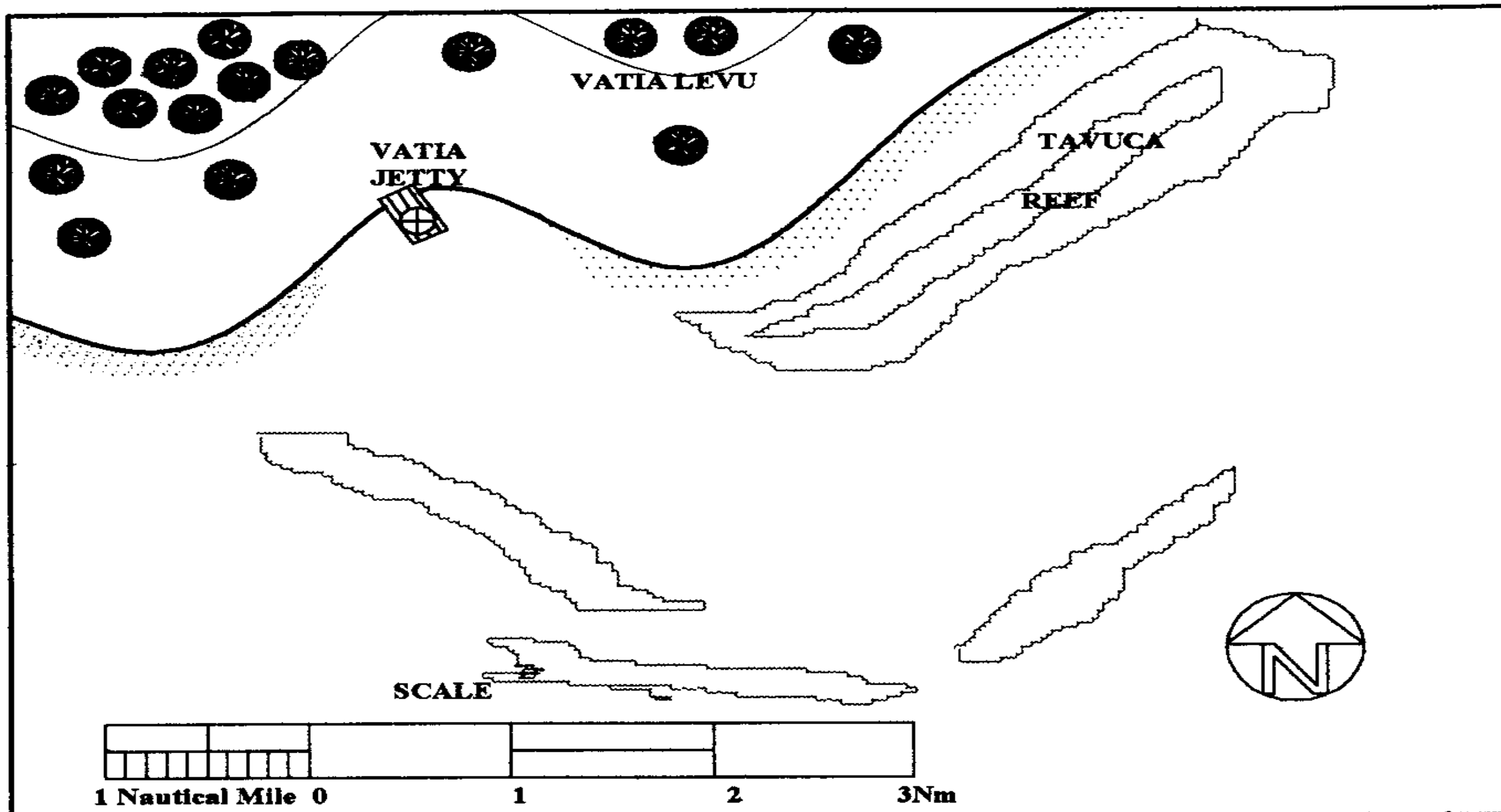A ship MV Cagimaiba leaves the Vatia Jetty on Vatialevu and takes the following courses.

Leg 1. She leaves Vatia Jetty on the bearing of 135º for 3 nauticalmiles.

Leg 2. At the end of leg 1, the MV Cagimaiba, changes its course to the bearing of 045º for 2 nautical miles.

Leg 3. She again alters its course at the end of leg 2 to a bearing of 090º and heads on to the open sea.

REQUIRED: Plot the course of the MV Cagimaiba

Question:1			
1	Correct bearing & Nautical miles-**Leg 1**	2	
2	Correct course change-**Leg 2**	1	
3	Correct bearing & nautical miles-**Leg 2**	2	
4	Correct change of course-**Leg 3**	2	
5	Correct bearing-**Leg 3**	1	
6	Correct course to open sea-**Leg 3**	1	
7	Overall neatness & accuracy	1	

VATIA LEVU

TAVUCA REEF

VATIA JETTY

SCALE

1 Nautical Mile 0   1   2   3Nm

N

10

NAME: _____
YEAR: _____

QUESTION:2

GIVEN:
A ship MV Tunatuki leaves the Uluiqalau Jetty on Donnely Island and takes the following courses.
Leg 1. She leaves Uluiqalau Jetty on the bearing of 135º for 1.5 nautical miles.
Leg 2. At the end of leg 1, the MV Uluiqalau, changes its course to clear Kauvadra Point for 3 cables and keeps turning.
Leg 3. Then moves on to clear Beacon 2 on Sokisoki Reef for another 3 cables.
Leg 4. She again alters it's to clear the Rock to starboard side at 5 cables and keeps on turning.
Leg 5. Until the vessel makes its way out the Sukuna Waters in clearing the Ship Wreck by 4 cables.

REQUIRED: Plot the course of the MV Tunatuki.

Question:2			
1	Correct bearing & Nautical miles-**Leg1**	2	
2	Correct course change & clearance course-**Leg2**	1	
3	Clearance to Beacon 2 –**Leg3**	2	
4	Star board & correct cables-**Leg 4**	2	
5	Clearance of wreck & correct cables-**Leg 5**	2	
6	Overall neatness & accuracy	1	

5%

10