JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 07 | Citizenship Education

Name/Index No : ……

Mr.T.Rubaseelan, B.A, M.Ed, PGDE

Give the answer to all questions

1) How many types of families found based on family members? What are they?

……

……

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2) What is a nuclear family?

……

……

……

3) Specify three of the characteristics of the extended family.

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4) List the five benefits of living as a family.

……

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5) Specify five procedures that can be followed to implementing a goal for a successful life.

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6) Mention four of the characteristics of his self-confidence in the story of "the little Shiyama".

….

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….

….

7) No human being is like any one else. Name three identities that can be distinguished.

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8) Mention four of the virtues you need to thrive within a family member.

….

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9) Mention three for each strength and weakness.

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10) Give five actions that you should take to avoid the weaknesses that mentioned by you.

….

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11) Mention five factors that are essential to the progress of your life.

….

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12) Mention three of the programs implemented in the school to develop good qualities.

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13) Mention four of the activities of religious institutions.

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14) Mention the good qualities that you found in your friend.

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15) Mention the name of biography that you read recently and give two of there impressive massage.

….

….

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….

16) As a student, mention the four uses of media.

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17) Specify the five different organizations that contribute to social development.

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18) Mention four factors that influence one's behavior.

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19) Give 10 benefits of engaging in sports.

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20) Give 5 benefits of engaging in aesthetic activities.

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21) Give 4 folk games.

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22) Write your favorite folk song.

…..

…..

…..

23) Mention three of the challenges faced by the families at present.

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24) What is emotions?

…..

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…..

25) Mention the five different types of emotions that arise in humans.

…..

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26) Give five steps taken to control the unfavourable emotions.

…..

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27) What information should be included in the things which are in container?

…..

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28) What should be considered when buying and using pharmaceutical products.

…..

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29) Give 5 the benefits of earning sufficient income.

…….

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30) Give four benefits of that the parents are being employed.

…….

…….

…….

31) Specify five services related to education.

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…….

32) Specify the rights that you will get through the family.

…….

…….

…….

…….

…….

33) Give four responsibilities of parents.

…….

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…….

…….

34) Write the difference between duties and rights.

…….

…….

…….

…….

35) Give ten characteristics of Good Citizen.

….

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36) Mention five of the duties that you should fulfill with regarding to elders.

….

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….

37) Write a song or poem explaining the about parents.

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….

38) What is behaviour? Mention five of them.

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39) What is tradition?

….

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40) Give 4 customs that are practiced within the family.

…..

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41) Give five occasions when maintaining relationships with neighbors.

…..

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42) Give 5 factors that affect the social life with neighbors.

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43) Briefly explain the social responsibility that must be performed.

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JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 07 | Geography

Name/Index No : …… Mr.T.Rubaseelan, B.A, M.Ed, PGDE

Answer all questions.

The Planet Earth We Live

1) Give 4 favourable factors for life found on the Earth.

…….

…….

…….

…….

2) Give four evidence that the earth is sphere.

…….

…….

…….

…….

3) What are the evidences which help to prove that the Earth is not a mathematical sphere?

…….

…….

…….

4) Give the following data about the earth.

Equatorial diameter:

Polar diameter:

Equatorial circumference:

Polar circumference :

The surface area of the Earth:

5) Give the following information about earth's rotation.

A. What is rotation ?

…….

…….

B. Give the time takes for rotation?

…….

…….

C. What are the effects of the rotation?

…….

…….

6) Give the following information about earth's revolution.

A. What is revolution?

…….

…….

B. Give the time takes for revolution?

…….

…….

C. What are the effects of the revolution?

…….

…….

7) Give two imaginary lines found on the Earth.

…….

…….

8) Define the latitudes.

…….

…….

9) How many total latitudes found on the Earth?

…….

10) Give 5 main latitudes.

…….

…….

…….

…….

…….

11) Define the longitude.

……

……

12) How many total longitude found on the Earth?

……

13) What is the name of the 0^0 longitude? Give the reason for name take place.

……

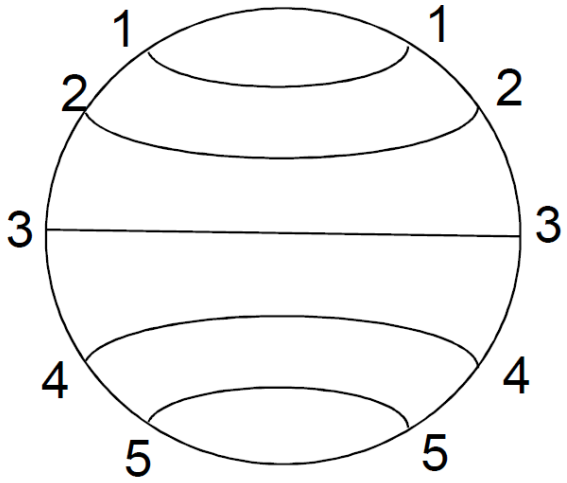
……

14) What is the name of the 180^0 longitude? Why is it called such that?

……

……

15) Name the following latitudes in terms of its degree.



1. ……

2. ……

3. ……

4. ……

16) How to call 90^0 latitudes in the globe?

……

17) Give the used of Latitudes and longitudes.

……

……

……

18) Name the countries which are located within the 0^0 to 30^0 N latitudes and 60^0 to 90^0 E longitudes.

……

…….

…….

…….

…….

19) What is the percentage of Earth's surface covered by water? And what is the percentage of land?

…….

…….

20) Define the continent and list them by its size.

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…….

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…….

…….

…….

…….

21) List the important countries that are belongs to each continent.

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…….

22) Define the ocean and list the by its area.

…….

…….

…….

…….

…….

…….

23) Provide at least 3 islands for each 5 oceans.

…….

…….

…….

…….

…….

24) Find out the 10 seas located closest to the land.

…….

…….

…….

…….

25) Give some of the seas located within the territory.

…….

…….

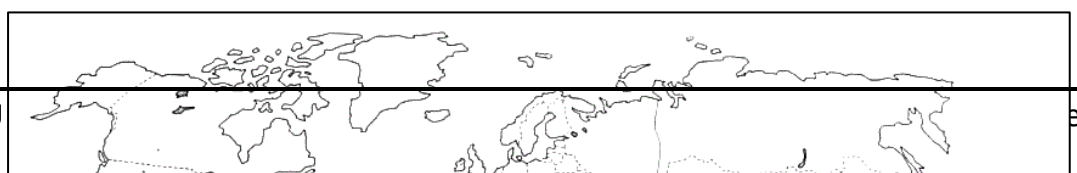
…….

…….

…….

26) Place the following places relevent to the digits on the given global map

01. South Africa	02. Pakistan	03. Maldives
04. Spain	05. Italy	06. Black Sea
07. Caspian Sea	08. Aerial Sea	09. Caribbean Sea
10. Baltic Sea	11. New York	12. London
13. Tokyo	14. Calcutta	15. Beijing
16. Nicobar Island	17. Cuba	18. New Zealand
19. Cyprus	20. Ireland Island	



27) Define the **Specific location**.

…..

…..

…..

28) Explain the **Specific location of** Sri Lanka.

…..

…..

…..

29) List the following information about Sri Lanka.

01. A narrow strip of sea separated Sri Lanka from India:
02. Width of Palk Strait:
03. Latitudes in which Sri Lanka is located.:
04. The longitude in which Sri Lanka is located.:
05. Two islands located near Sri Lanka:
06. Length of Sri Lanka :
07. Width of Sri Lanka :
08. Area of Sri Lanka:
09. Sri Lanka's territorial boundary :
10. Isles belongs to Sri Lanka :

30) Give the main relief zones in Sri Lanka accourding to its height.

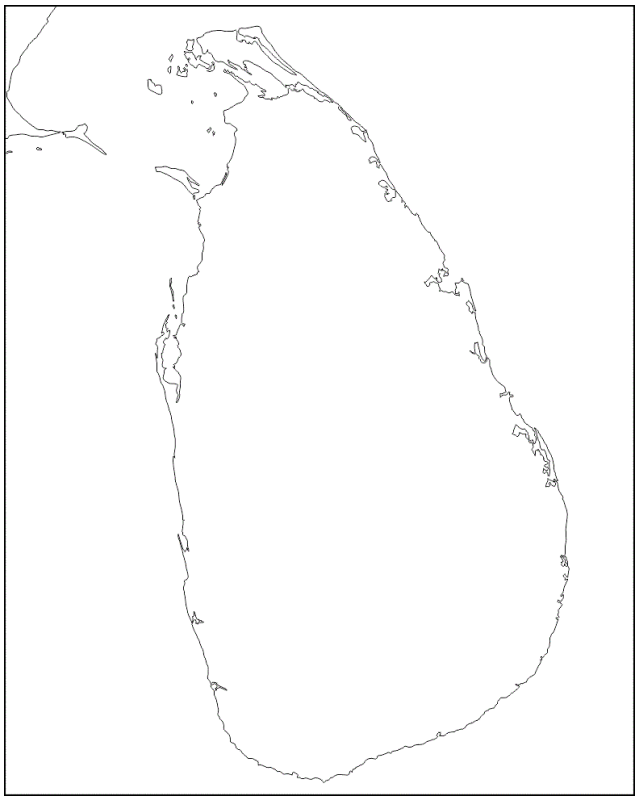
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……..

31) List the **Topographical Features** of Sri Lanka under the following categories.

Central hills	**Intermediate plain**	**Coastal plain**

32) Draw the relief zones of Sri Lanka and colour them.



33) Give an example of the following relief f**eatures** in Sri Lanka.

Islands :

Points :

Bays :

Lagoons :

Mountain ranges :

Gaps :

Hills :

Waterfalls :

Plateaus :

34) List information for the ways rainfall receive to Sri Lanka.

Rain	The period	Area	Specific features

35) Mention the factors that influence the diversity of plants.

…..……..

…..……..

…..……..

36) Categorized the cultural heritages in detail and give examples.

37) Give the places where indigenous people were settled in Sri Lanka and give the Contemporary development

…….

…….

…….

…….

38) List the festivals celebrated by the people of Sri Lanka.

…….

…….

…….

39) What are the indexes used to know the development level of a country?

…….

…….

…….

…….

…….

40) Give the South Asia a country with the highest achievement of the following issues.

Life expectancy :

Literacy15 years and over :

Birth rate To 1000 :

Infant mortality rate to 1000 :

Maternal mortality rate for 1000 live births :

41) Give the following Data on social development of Sri Lanka.

Life expectancy :

Literacy15 years and over :

Birth rate To 1000 :

Infant mortality rate to 1000 :

Maternal mortality rate for 1000 live births :

42) Specify the steps taken by the Government of Sri Lanka to increase the literacy rate.

…….

…….

…….

…….

43) Give some of the measures taken by the government to improve the medical and health sector.

…….

…….

…….

…….

44) Give three benefits of Development of educational facilities.

…….

…….

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JAFFNA HINDU COLLEGE

Risk Leave Time Self Education Worksheet - 2020

Grade – 07 | Health & Physical Education

Name/Index No : ..... Miss.K.Thatchayini, B.Sc in Agri

Unit – 01

01. Define the term of health promotion?

.....

.....

02. List out the features of the healthy environment?

.....

.....

03. List out the communicable diseases which are caused by impure/contaminated water?

.....

.....

04. List out the persons who are required special meals?

.....

.....

05. What are the nutrition that should more intake by adolescence?

.....

.....

06. What are the factors that need for mental health promotion?

.....

.....

07. Write down the 3 activities to spend leisure in a productive manner?

.....

.....

08. List out the features of good social environment?

.....

.....

09. What are the features of good spiritual environment?

.....

.....

10. Write down the 5 steps taken to promote family health?

.....

.....

11. Write down the 3R concept to manage waste?

.....

.....

12. How much sugar can intake by a person per day?

……..…
……..

13. Who deliver the information to developing skills and knowledge on your good health?

……..…
……..

14. Who can get health services?

……..…
……..

15. Mention 5 your duties and responsibilities as a student in building a healthy family environment?

……..…
……..

Unit – 02

01. Name the needs which having love & protection?

……..…
……..

02. What are the basic needs of human?

……..…
……..

03. Mention the two groups who give love & protection for us?

……..…
……..

04. Name the types of family?

……..…
……..

05. Write down the external persons who help you in your daily affairs?

……..…
……..

06. What are the duties & responsibilities to be fulfilled by you to receive love & protection?

……..…
……..

07. Write the harmful effects of refuse love & protection?

……..…
……..

Unit – 03

01. What are the benefits from engage the folk games?

……..…

……..

02. Mention the common features of folk games?

……..…

……..

03. Mention the basic kind of folk games?

……..…

……..

04. List the types of folk games according to the type of participation, equipment required & other facts?

……..…

……..

05. Write down the examples for following games?

a. Indoor folk games with equipment.

……...

b. Indoor folk games without equipment.

……...

c. Outdoor folk games with equipment.

……...

d. Outdoor folk games without equipment.

……...

06. Give folk games that are commonly played during New year.

……..…

……..

Unit – 04

01. Volleyball game that was introduced by who? when & where?

……..…

……..

02. Who & when was volleyball introduced to Sri lank?

……..…

……..

03. How did volleyball call at beginning?

……..…

……..

04. How many members are participated in a team of Volleyball?

……..…

……..

05. What are the skills of volleyball?

……..…

……..

06. Draw the volleyball court with proper measurement.

……..…

……..

07. Write down the types of serving?

……..…

……..

08. Mention the techniques of the under arm service?

……..…

……..

09. Write down the activities related to under arm receive practice?

……..…

……..

10. Name the National games of the Sri lanka?

……..…

……..

Unit – 05

01. Netball which was introduced by who? when? where?

……..…

……..

02. Who & When was introduced the netball to Sri Lanka?

……..…

……..

03. What are the skills of Netball?

……..…

……..

04. How many players could be in one team?

……..…

……..

05. How many players can play in a team at playground?

……..…

……..

06. Write down the activities to promote the foot work?

……..…

……..

07. Sketch net ball court with correct measurement.

……..…

……..

Unit – 06

01. Who was initiated the football?

……..…

……..

02. How would football call beginning?

……..…

……..

03. How many members could be in a football team?

……..…

……..

04. How many players are played in the football game?

……..…

……..

05. Write the skills of football?

……..…

……..

06. What are types of kicking a ball?

……..…

……..

07. Which parts of the body control the ball?

……..…

……..

08. Write down the instance for following?

a. kicking with inner side of the foot.

……...

b. kicking with instep of the foot.

……...

09. What are the methods to control the ball?

……..…

……..

10. List out the activities to control the football?

……..…

……..

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JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 07 | Information& Communication Technology

Name/Index No : ……

Mr.S.Gowshigan, B.Tech (ICT), NDT

Answer all questions.

1. What is the hardware component used for processing the data in the computer?

   ……

2. Write the components of a Central Processing Unit.

   ……

3. Is it possible to view the CPU from outside the computer? Why?

   ……

4. Write the function of Arithmetic and Logical Unit.

   ……

   ……

5. Write the names of electronic technologies used in all the four computer generations.

   ……

   ……

6. Which part of the central processing unit controls the computer hardware?

   ……

   ……

7. Some of the characteristics of computers were increased and some of them were decreased over computer generations. Study the following table and fill in the banks with the words ***Increased, Decreased***.

   (Copy this table in your answer sheet and fill in the blanks)

Computer Generations	**Power consumption**	**Speed**	**Cost**	**Size**
1→2→3→4	…… ……	…… ……	…… ……..	…… ……

8. Write three units used to measure the speed of a CPU.

……

9. The speed of **Computer A** is 1024 KHz and speed of the **Computer B** is 1 MHz. Which computer is the fastest?

……

10. Write four functions of an operating system.

……

……

11. Write two operating systems used in computers.

……

12. Write two operating systems used in mobile devices.

……

13. Identify the following logos.


(A)


(B)


(C)


(D)

Write the names of these logos against the labels A,B,C,D in your answer sheet.

……

14. What are storage devices?

……

15. Write the types of storage devices according to their manufacturing technology.

……

16. Classify the following devices as magnetic, optical, solid state storage devices.

Compact Disk, Hard disk, Flash drive, Floppy disk, SD card, Blu Ray Disk

Copy the following table and write the above devices in the correct column.

Magnetic media devices	**Optical media devices**	**Solid state media devices**

17. What is file in a computer?

……

18. What is folder in a computer?

……

19. Write the file name and the file extension of the following file.



Jhc_assign.docx

……..

20. **Consider the following files stored in a computer.**



1stTerm.docx



speech.mp3



Marks.xlsx



Winner.mp4



Pongal.jpg

The folders which save the above files are given below.

Write down the file names against the folder names in your answer sheet. (You don't need to draw the files or folders)



Maths_Marks



Greetings



PrizeDay

JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 07 | Mathematics

Name/Index No : ……

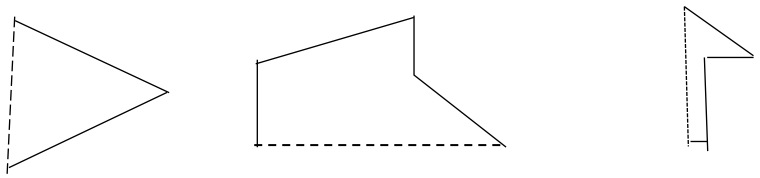
Mr.V.Puvanesan, B.Sc (Mathematics)

Unit – Billateral symmetry

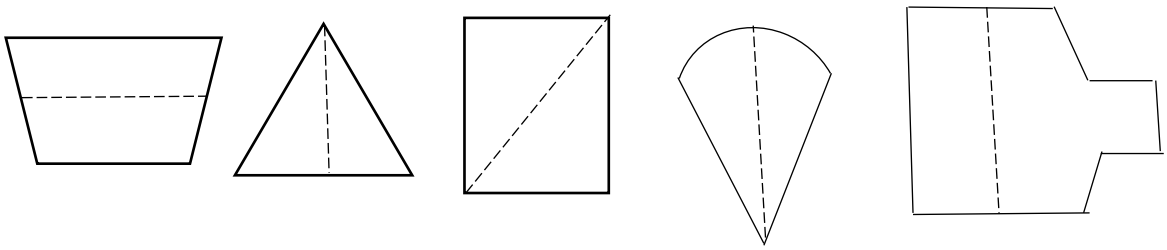
01)

a) What do you mean by billaterally symmetric figure.

b) Complete the figures so that you obtain a bilaterally symmetric figure



02) Underline the bilaterally symmetric figures with correctly drown aixs of symmety.



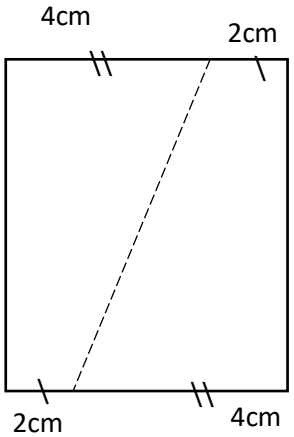
03) Draw the following figures and their symmetric.

a. a rectilinear plane figure with a symmetric axis.

b. a rectilinear plane figure with two symmetric axes.

c. two rectitinear plane figure with more than two symmetric axes.

04)



When we cut the figure along the dotted line., the two parts will coincide. Is this a bilaterally symmetric? Give reason for your answer.

Unit 02 - Sets

01)

a) What is set?
b) How can called the items belongs to the set?

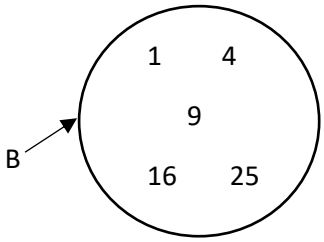
02) Underline the correct method of representing seb in the following.

a. {9 1 13}
b. {ம, க, ர, க, ம}
c. {1 , a , b , 3 }
d. {1, 2, 3, 4,….. }

03)

a. A = { multiples of # between 7 and 19 }
    1. Write the set A as listing of elementt within the curly brackets.
    2. Represent the set A by a venndiagram.

b. Write down the set B in terms of a common property of its elements by which the elements canbe clearly identified.



04)

Statement		set	not a set
I.	colours of rainbow	✓	
II.	multiples of 5 between O and 50		
III.	Tall students in the classroom		
IV.	clever students in the classroom		
V.	Houses in the school		
VI.	students in a classroom		

Unit 03 – Operations on ehole numbers.

01) Simplify

I. 15 + 10 +8 II. 8 x 6 x 10
III. 10 – 3 - 2 IV. 36 ÷ 6 ÷ 3

02) Simplify

I. 12 + 4 x 2 II. 12 x 4 + 2
III. 12 – 4 x 2 IV. 12 ÷ 4 -2

03) Simplify

I. 50 + 40 (14-4) II. 10 + 8 (12-2) x 6 ÷ 3
III. 20 + (16÷4-2) IV. 4 + 6 x (20+7) ÷ 3 - 40

Unit 04 – Factors and Multiples

01)

Number	Divisible by 2	Digital Index	Dinisibleby	Divisible by 9
81	X	9	✓	X
102				
951				
189				
372				
466				
1029				
606				
432				
24				
144				

02)

a. What is the H.C.F of prime numbers?
b. If the number 5 3 ☐ 6 is divisible by 4 and 6. Find the suitable digit for the box.

03)

a. write 6, 12, 18 as a product of prime factors.
b. Find the HCF of 6,12 and 18.
c. Find the LCM of 6,12 and 18.

04)

a. Two bells ring at intervals of 4 minutes and 6 minutes respectively. If they both ring together at 8.00 a.m, at what time will they ring together again.

b. There are 30 soaps, 24 toothpastes and 12 brushes. If these items to be packed into bags such that there is an equal number of soaps. an equal number of thooth pastes and an equal number of brushes in every bag. and no items remain. what is the maximan number of such bags that can be prepared?

Unit 05 - Indices

01)

a. write using index notation 7 x 7 x 3 x 3 x 3
b. Expand and find the value of $2^3 \times 3^2$

02)

a. Write 40 in index from with prime numbers as bases.
b. Write 64 in index notation with 4 as the bases.

03) If X = 2, Y =1, find the values of $5^2 X^2 Y$.

Unit 06 - Time

01) AD 1892

a. Is a leapyear? Give reason.
b. Which decade?
c. which centuary?
d. which millennium?

02) Simpify

a.

Y	M	D
3	6	19
+ 2	8	20

b.

Y	M	D
6	8	12
-4	8	20

03)

a. Give 295 days in months and days?
b. If the 5^{th} birthday of kamal is 2004-08-24, find his birth date.

Unit 07 – Parallel Lines

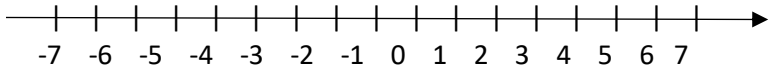
01)

I. Draw a straighline segment PQ = 6.8 cm.
II. Draw a straight line passing through P and pepedicular to PQ using setsquare.
III. Mark the point 3 in the straight line in (ii) such that PS = 6cm.
IV. Draw a straight line passing through S parallel to PQ using a ruler and a setsquare.
V. Mark the point R on the parallel line drown above such that SR=4cm and join QR.

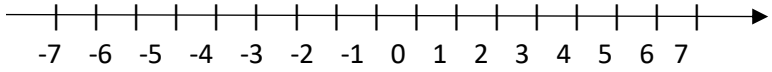
Unit 08 – Directed Numbers

01) Add using Number line.

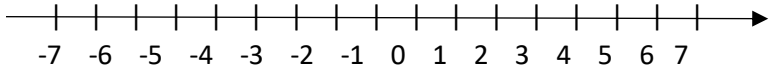
I. (-6) + (+4)



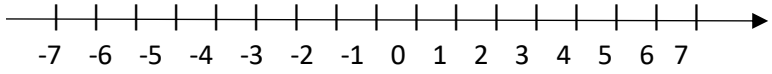
II. (-5) + (-1)



III. (-5) + (+5)



IV. (+4) + (-2)



02) Simplify

I. (+4) + (-10)

II. (-1) + (-5)

III. $\left(\frac{-2}{7}\right) + \left(\frac{-4}{7}\right)$

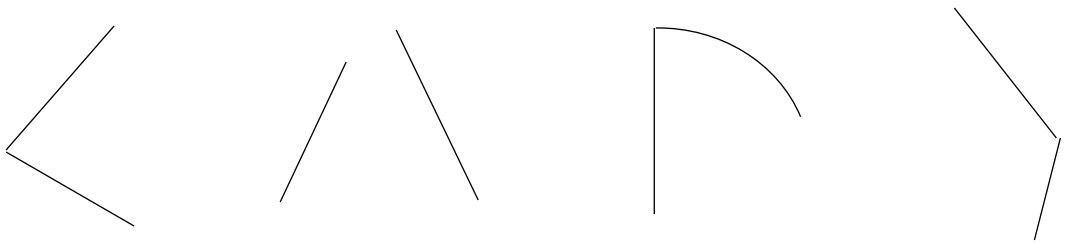
IV. (-9) + (+5)

V. $\left(+\frac{1}{2}\right) + \left(\frac{1}{2}\right)$

VI. (-1.76) + (+0.34)

Unit 09 - Angles

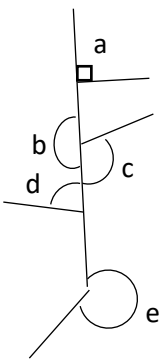
01) Select and underline the angles.



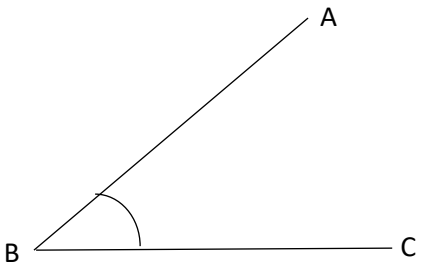
(a) (b) (c) (d)

02) a.

Angle	Type of angle
a	
b	
c	
d	
e	



b.



Name of angle	……
Arms	……,…….
Vertex	…….

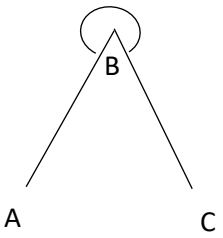
03)

a. Whar is the standard unit of measuring angles?
b. Give two examples of angle which is static in nature.
c. Give two examples of angle which is dynamic in nature.

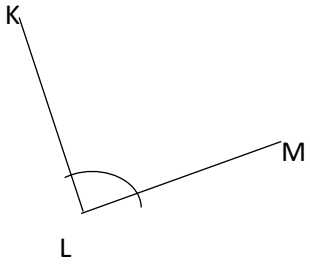
04)

a. Construct the following angles using the protector.
   i. $A\hat{O}C = 65^0$
   ii. $X\hat{Y}Z = 125^0$
   iii. $N\hat{L}M = 280^0$
b. Measure and write down the magritude of the following angles.

i. $A\hat{B}C =$



ii. $K\hat{L}M =$



05) Complete the puzzelbox given below show the methods of the informations from a to J

a		d		■	b
	c		■	e	
	■		■		
	f	■	h		■
■		I			J
g				■	■

If the answer is 15 Put | 1 | 5 |

→ From left to right

a) Strating Year (First) of 182^{nd} decade.
b) Even Prime number.
c) Value of 8^2
d) Value of 8.9 + 2.1
e) 250 ÷ 5 ÷ 5
g) 3 years in days
h) LCM of 8,6,16
i) Value of 3^2 x (10^3 + 9)

↓ Up to down

a) Not a leapyear of the follwing 2016, 1900.
b) Answer of 251 x 2 is upside down
d) Value od 2^4 x 3^2
e) First leap year comes next to the year 1886
f) If a=3, b=5, value of $10a^2b$
h) Smallest multiple of 3 greater than 400
i) Largest two digit number.
j) HCF of 2,3.

***

JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 07 | Science

Name/Index No : ……

செல்வி.கை.கீதா B.Sc, NDT

Answer the all questions

Unit 1 - Plant Diversity

1. Give 4 non flowering plants.
   ……
   ……
2. Give the main function of following plant parts
   Stem.....
   Roots.....
3. Give the type of roots which gives additional support for the plants
   ……
   ……
4. What is the function of root nodules of Leguminasea plant?
   ……
   ……
5. Fill in the blanks

Plant	Function of special root	Type of root
Banyan tree		
	Give additional support to stem	
Betel		
Avicenia		
	Foot storage	

6. How does Orchid plant get the water?
   ……
   ……
7. Give 2 plants which have photosynthetic stem
   ……
   ……
8. Give 2 plants which have underground stem
   ……
   ……
9. What are the benefits of underground stem with the function of food storage?
   ……
   ……
10. Give 2 plants which have parallel venation in leaves

……
……

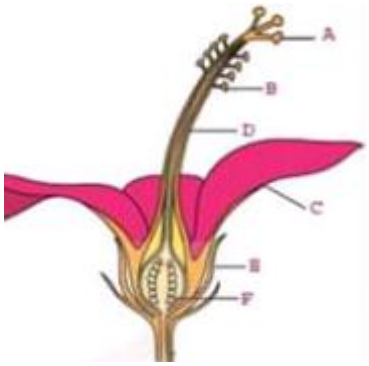
11. Write the functions of leaves with suitable examples

……
……

12. Name 2 plants which are reproduced by leaves

……
……

13. Following diagram shows the longitudinal section of a flower



1. Identify the parts A- F
   A –
   B –
   C –
   D –
   E –
   F –

1. Identify the letters which denote the androecium part

……

2. Identify the letters which denote gynoecium part

……

3. What is the function of part C ?

……

4. What is the function of part B?

……

5. Write the adaptation of part C in flower that blooms at night.

……

6. Which part of flower is produce pollen grain?

……

7. What is the difference between stilt root and prop root?

……

8. What is the importance of seeds dispersal?

……

16 .Answer the questions based on following figures

A B C





1. Identify the method of dispersal and the adaptation of fruits A ,B and C for it dispersal
   ……
   ……
   ……
2. Give 2 fruits that are dispersed in the same way as in fruit A
   ……
   ……
3. Which type of plant commonly has hypogeal germination?
   ……
   ……
4. Differentiate the Hibiscus and Coconut trees based on the structure of stem ,leaves and roots.
   ……
   ……

Unit 2 - Static electricity

1. How can you charge a plastic pen?
   ……
2. What is static electricity ?
   ……
3. What are the types of static electricity?
   ……
4. Which scientist discovered the charges created on the surface of the object when they are rubbed with another object?
   ……
5. Following information is based on the activity to identify repulsion and attraction on different charged rods. filling the blanks based on it.

Suspended rod	Charge type on the rod	The rod brought closer	Charge type on the rod	observation
Glass rod rubbed with silk cloth		Glass rod rubbed with silk cloth		
Ebonite rod rubbed with wool cloth		Glass rod rubbed with silk cloth		
Ebonite rod rubbed with wool cloth		Ebonite rod rubbed with wool cloth		

6. What happens when a charged object make contact with other object?
   ……
   ……
7. 1. Which instrument is used to identify the static charges?
   ……
   2 How can you identify charged object by the above mentioned instrument?
   ……
8. Give 2 phenomena related with static electricity.
   ……
9. How does lightning is formed? Explain
   ……
10. Give 3 appliances that are work on the basis of static electricity.
    ……
11. Give the use of capacitor?
    ……
12. Draw the symbol of capacitor.
    ……
13. In a capacitor written as 10 F , what do you mean by it?
    ……
14. Give 2 electrical instruments which have capacitors

……

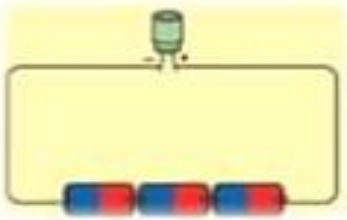


Fig A

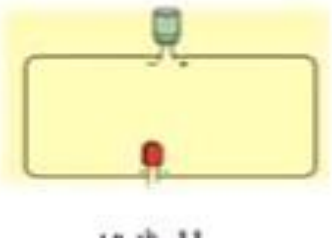


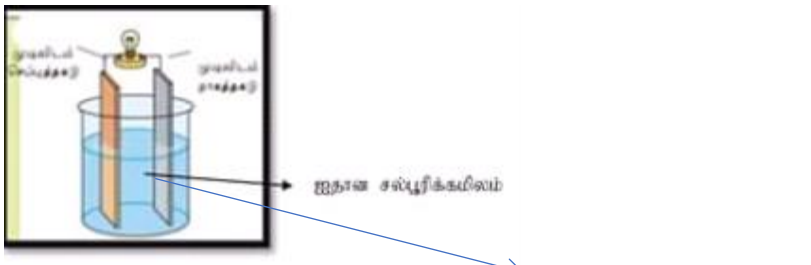
Fig2

1. Name the process in fig A and B.
   ……
   ……
   ……
   ……
2. What could be observed in Fig 2 ? Give reason.
   ……
   ……
   ……
   ……
3. How you should connect dry cell and LED to the capacitor?
   ……
   ……
   ……
   ……

Unit - 3 : Production of electricity

1. Give 4 source of electricity ?
   ……
2. How does electricity produced in dry cell and dynamo? Explain
   ……
3. Which instrument is used to measure the electric current?
   ……
4. What is the standard international unit of measuring electric current?
   ……
5. Write the substances that are used make an alkali cell.
   ……
6. What is the electrolyte of motor vehicle batteries?
   ……
7. Name the positive and negative terminal of dry cell.
   ……
8. What is the electrolyte of dry cell?
   ……
9. Give instances where button cells are used.
   ……
10. A dry cell connected with a center zero galvanometer .The indicator of galvanometer deflected to right ,when the terminal of dry cell was reversed,. the indicator deflected to the left. What is the reason for this observation?
    ……
    ……

11. The following diagram is a structure simple cell.



1. Identify the positive and negative terminal of the simple cell
   ……
2. Identify the electrolyte of the above cell
   ……
3. What change could be observed in zinc sheet?
   ……
4. Denote the direction of current flow in the diagram
   ……
5. What change could be observed when a center zero galvanometer is connected instead of bulb in the circuit ?

……

6. Write the weakness in a simple cell.

……

12. what is the difference between cell and battery?

……

……

13. What is direct current? Give an example for source of direct current

……

……

14. What is alternate current? Give an example for source of alternating current

……

……

15. Draw a graph Separately for AC,DC with time.

……

……

……

……

16. what are the advantage and dis advantage of solar cell used as electric source?

……

……

……

……

17. What is electromagnetic induction?

……

……

18. In which way electricity is produced in cycle dynamo?

……

……

19. Write 2 ways to increase the current produced by the dynamo

……

……

……

Unit - 4 : Functions of water

1. Give 4 substances that completely dissolved in water.
   ……
2. Give 4 substances that partially dissolved in water.
   ……
3. Give 2 gases which dissolved in water.
   ……
4. Give 4 instances where water act as solvent.
   ……
5. Give other functions of water except solvent property.
   ……
6. How does an aquatic animal get their oxygen?
   ……
7. Filling the blanks

substances	Containing chemicals
Battery acid	
Acetic acid	
Saline	
Sugar cane juice	

8. How is salt produced from sea water?
   ……
9. How coolant property of water is used in the protection of machinery from over Heating. ? .Explain
   ……
10. Give 2 mammals which use water as external medium for their living environment.
    ……
11. Which salt is dissolved in sea water at high percentage ?
    ……
12. Water is a biological medium of life . Explain.
    ……
13. In which part of the human body produce urea?
    ……
14. Give 2 examples for the water act as medium of transport.
    ……
15.

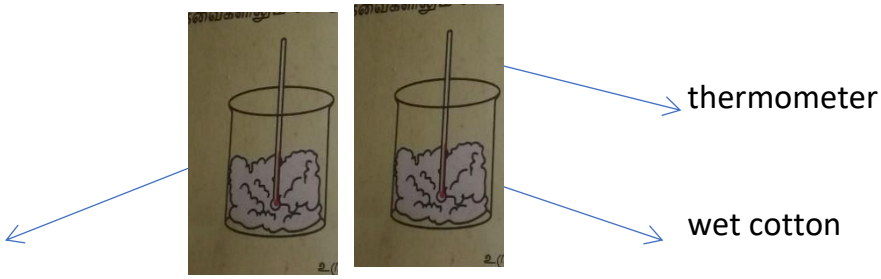


Fig 1 Fig 2

1. Which property of water is tested in the above activity?
   ……
2. What could be observed in both set up after few minutes? Give reason.
   ……
3. Give the instances where above tested property of water is used in day to day life.
   ……
   ……

Unit - 5 : Acids and Bases

1. Complete the following table

Substances	feature	examples
Acids		
Bases		
Neutral substances		

2. Give acid ,base and neutral substances that are used for household needs.
   ……
3. What is Indicators?
   ……
4. Give 2 examples for natural indictors.
   ……
5. Give 2examples for artificial indictors that are used in laboratory.
   ……
6. Alcohol,,sulphuric acid and sodium hydroxide were taken as A,B,C solutions but not in order. The following table shows the color changes above 3 solutions with two indicators

indicators	A	B	C
phenolphthalein	No color change	color changes	pink
Blue litmus paper	red	blue	blue

   1. Identify the solutions A,B and C.
      ……
   2. which of the above solution give blue color with red litmus?
      ……
7. What is the color of pH paper?
   ……
8. What is the color of phenolphthalein solution?
   ……
9. The pH of a solution is 2 . what is the nature of that solution?
   ……
10. What is the pH of a neutral solution?
    ……
11. Give the pH range of bases.
    ……
12. Give 2 acids which are used in laboratory.
    ……
13. Give 2 acids which are used in laboratory.
    ……

14. Give the color change when methyl orange solution is added to an acid solution.

……

Unit - 6 : Animal Diversity

1. Complete.

animals	Have vertebral column	Haven't vertebral column
Earth worm		
Crab		
Shark		
Snake		
Bat		
Dolphin		
Sea anemone		
Spider		
eagle		

2. Name the group of vertebrate animals.

……

3. What is adaptation ? give the importance of it

……

4. What is the benefit of camouflage of animal?

……

5. Give 4 animals which show camouflage and give the adaptation of those animals individually.

……

……

……

……

6.
   1. Name 2 animal groups that have stream lined body shape

      ……
   2. Give the importance of that body shape with respect to that environment.

      ……
7. Give the characteristic of dichotomous key.

……

8. Identify the following animal group as vertebrate /invertebrate and write an external feature of that animal



A



B



C

……

……

9 . Complete the following dichotomous key.

