JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 08 | Health and Physical Education

Name/Index No : …… Mrs.K.Senthuran, NDT (Science)

Unit 01 : Let us improve our self esteem

01. What is self-esteem?

……

……

02. How does a person with self-esteem contribute to society?

……

……

03. Write the two types of factors which influence self-esteem?

……

……

04. What are the internal factors influence one's self-esteem?

……

……

05. What are the external factors influence one's self-esteem?

……

……

06. What are the social factors which have a negative impact on self-esteem?

……

……

07. What are the internal factors which have a negative impact on self-esteem?

……

……

08. Name the secondary mental needs?

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……

09. List person's abilities which contribute to improve self -esteem?

……

……

10. List person's characteristics which contribute to improve self -esteem?

……

……

Unit 02 : Let us march correctly

01. Number of members participate in march past squad?

……

……

02. Name the member who should keep look straight ahead when the command …Eyes right…. Given?

……

……

03. Give the types of turns in march past

……

……

04. Write the two types of marching?

……

……

05. Write the instances where march past squad performance takes place?

……

……

Unit 03 : Let play vollyball

01. What is the national game of Sri Lanka?

……

……

02. Who introduce the volley ball game?

……

……

03. Which organization administrate the volley ball game?

……

……

04. What is the mass of volley ball?

……

……

05. What is the time duration a player for serving volley ball?

……

……

06. Write skills of volley ball.

……

……

07. Give the numbers of players participated in a volley ball team?

……

……

08. How many short time breaks can be obtained by volley ball team in a round?

……

……

09. Draw the volley ball court and label it

……

……

10. Write the skills of volley ball.

……

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11. Write the type of playing volley ball

……

……

12. Write techniques of over arm service?

……

……

13. Write the types of setting?

……

……

14. Write the steps of volley pass?

……

……

15. Give the rules relating to service?

……

……

Unit 04 : Let us play netball

01. How many types of ball passing methods? What are those?

……

……

02. What are the factors that should be taken into consideration when throwing the ball?

……

……

03. What are the factors that should be taken into consideration when catching the ball?

……

……

04. Draw the figure to holding the ball correctly

……

……

05. Write the types of one-handed ball passing and two- handed ball passing

……

……

06. What are the factors that should be taken into consideration when passing the ball?

……

……

07. Draw the netball court and mark the measurement

……

……

08. Name the players played in a netball team

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……

09. Write the skills of netball.

……

……

10. Give the numbers of players participated in a netball team?

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……

Unit 05 : Let us learn about the start in running

01. How many commands in crouched start?

……

……

02. Which type of start, starts with the commands of 'on your mark'-go?

……

……

03. What are the commands used in 100m race?

……

……

04. Write the middle-distance races

……

……

05. Name the races which start with crouched start?

……

……

06. How many parts of body touching the ground when go command given during 100m race?

……

……

07. Name the events which start with crouched start?

……

……

08. Give the commands of crouched start?

……

……

09. Give the commands of standing start?

……

……

10. Name the events which start with standing start?

……

……

JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 08 | Citizenship Education

Name/Index No : ……

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

Public services

1) What is public service?

……

……

……

……

2) Specify 5 of the public services that we use.

……

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3) Classify them according to the nature of the services provided.

……

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4) Give 5 Importance of public services.

……

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5) How did the growth of public services in Anuradhapura?

…….

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6) What were the public services started during the British rule?

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7) Specify five characteristics of public services.

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8) Why is drinking water so important as a public service?

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9) What services does the National Water Supply and Drainage Board provide?

…….

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10) Give 5 importance of health services.

…….

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11) Mention the medical systems found in the country.

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12) Which hospitals have been established to treat patients under the Western medical system?

…….

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13) Specify the 5 Services that are implemented by Health and Medical Services.

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14) Specify five services that can be delivered to your area through the offices of the Health Medical Officer.

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15) Mention five steps people can take to prevent the spread of infectious diseases in contemporary times.

…….

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16) State five efforts to protect the right to education.

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17) Specify five tasks to be performed by education.

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18) Which institutions does provide services for passenger transport?

…….

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…….

19) State 5 steps taken by the government to improve public transport services.

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…….

20) Specify the employees who work in the office of the Regional office of the Ceylon Electricity Board.

…….

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21) What are the functions of the Information Communication Service?

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22) What are the services provided to people by postal services?

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23) Specify 5 services carried out by the media.

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24) State the 5 institutions established by the government on environmental protection.

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25) Mention the public institutions that provide public services and their duties and obligations to citizens. (Specify as table)

Public institutions	Services provided	Duties	obligations to citizens

(Use separate sheet to answer the above question)

Democratic Society

26) Mention 4 of the characteristics of the democratic family.

…….

…….

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…….

27) Mention 4 of the daily activities that the family take decision after discussion.

…….

…….

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28) Mention 5 of the democratic characteristics found in the school.

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29) Provide four co-curricular activities implemented by schools to strengthen the democratic way of life.

…….

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…….

30) Children's rights are divided into four main topics, mention them?

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31) Mention some of the rights of children and the duties that should be performed by children in relation to their rights.

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32) What are the organizations that are working to protect children's rights?

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33) Mention the officers who provide child and family welfare services at regional level.

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34) Mention the emotions that come up in our minds and the the reaction caused by them.

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35) What are the occasions where leadership can be seen in places such as the family school community?

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36) Mention the leaders who can be found in the family, school, community and those who follow them.

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37) Specify 5 characteristics associated with democratic life.

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38) How does the democratic lifestyle contribute to the betterment of society?

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39) Specify the various leadership styles that may be found in the community and give their characteristics.

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JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 08 | Geography

Name/Index No : ……

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

Fill in the blank with appropriate answers

The Solar System

1.What is Solar System?

……

……

……

2. Give 5 celestial bodies found in the Solar System.

……

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3. Give the 5 important facts about the sun.

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4. Name the planets found in the Solar System.

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5. Name the Inner planets.

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6. Name the Outer planets.

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7. Give 5 special features of Mercury.

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8. Give 5 special features of the Venus.

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9. Give 5 special features of the Earth.

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10. Give 5 special features of the Mars.

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11. Give 5 special features of the Jupiter.

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12. Give 5 special features of the Saturn.

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13. Give 5 special features of the Uranus.

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14. Give 5 special features of the Neptune.

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15. What are Dwarf Planets?

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16. Name 5 Dwarf Planets.

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17. What are natural satellites?

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18. Name the planets that hasn't natural satellites.

……

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……

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19. What are asteroids?

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……

20. What is the area where the belt of asteroids are found?

……

21. Name 5 scientists who made space-related discoveries and Give their inventions / discoveries .

……

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……

22. Give 5 beliefs related to solar system.

……

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……

……

23. Give the equatorial diameter and the polar of the Earth.

……

……

24. Give the equatorial circumference and the polar circumference of the Earth.

……

……

25. Give three sources of that help to know the information of Earth.

……

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……

26. Give three proof that the Earth is not mathematically spherical.

……

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……

27. What is rotation of the Earth?

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28. Give the results of rotation of the Earth.

……

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29. What is Revolution of the Earth?

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30. What is the effect of the Revolution of the Earth?

……

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31. What are Latitudes?

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32. What are longitudes?

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33. Give 2 benefits of latitudes and longitudes.

……

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34. Draw the main latitudes of the earth.

35. What is Standard Time?

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36. What is Equinoxes?

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37. Give the periods when the sun overhead over the the main latitude.

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38. What is Solstices?

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39. Give four main seasons occur and their different climatic features.

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40. Give the atmospheric composition and their percentages.

……

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41. Give 5 benefits of the atmosphere.

……

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42. Give 5 factors that causes for the pollution of atmosphere.

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43. Give the various forms of Water.

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44. Give the Distribution of water on earth and give their percentage.

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43. Give 5 uses of water.

……

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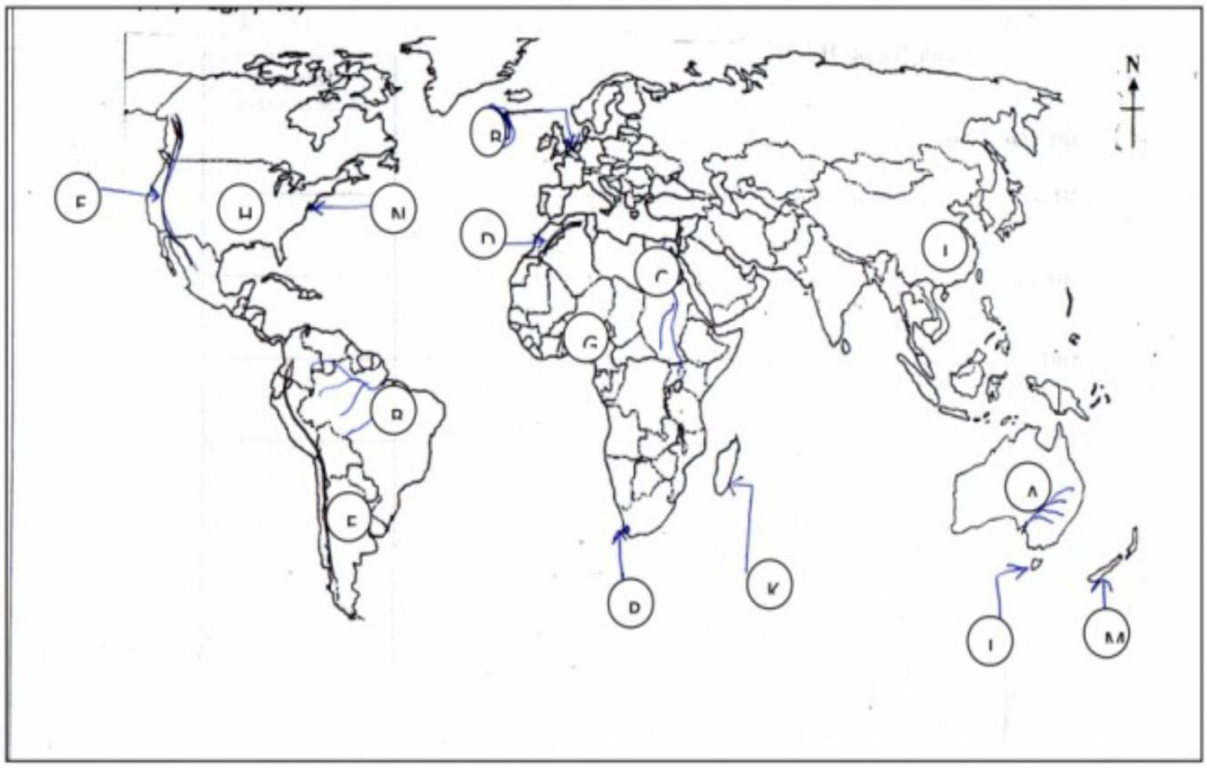
……

44. Write the factors which cause water pollution.

……

……

45. Name the places marked in the English letters on the given world map



JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 08 | Information& Communication Technology

Name/Index No : ……

Mr.T.Matheepan, BIT, NDT (ICT))

Unit 01 –Number System

1) What is the meaning of number system?

……

……

2) Write different types of number systems and their symbols and base values?

……

……

3) What is the meaning of base value?

……

……

4) Write the correct name of number systems for below numbers?
   a. 1001 : ……
   b. 3524 : ……
   c. 1985 : ……
   d. 648E5 : ……
   e. 5269 : ……

5) Expand the decimal numbers and draw the counting frame for given numbers.
   a. 241 : ……
   b. 1658 : ……
   c. 5643 : ……
   d. 31148 : ……
   e. 752 : ……

6) Expand the Binary numbers and draw the counting frame for given numbers.
   a. 101_2 : ……
   b. 1100_2 : ……
   c. 101110_2 : ……
   d. 1110010_2 : ……
   e. 10101011_2 : ……

7) Convert the following decimal numbers to binary numbers.
   a. 48 : ……
   b. 124 : ……
   c. 459 : ……
   d. 885 : ……

e. 1286 : ……
f. 1478 : ……
g. 1896 : ……
h. 2101 : ……
i. 2540 : ……
j. 2843 : ……

8) Convert the following Binary numbers to Decimal numbers.
a. 101_2 : ……
b. 1011_2 : ……
c. 1111_2 : ……
d. 1000_2 : ……
e. 10010_2 : ……
f. 100111_2 : ……
g. 1010100_2 : ……
h. 10001111_2 : ……
i. 1110001111_2 : ……
j. 10111000110_2 : ……

9) Write Five devices name that are input the data into a computer?
……
……

10) Write five examples for CPU?
……
……

Unit 02 – Configuring and Formatting a Computer

1) Write four importance of setting up the date, time and time zone of a computer?
……
……

2) Write the steps for changing the date, time and time zone of a computer?
……
……

3) Write the attributes of file?
……
……

4) Select the one file in your computer and give the examples for each attributes?
……
……

5) Write two basic types of troubles in the computer?

……..……
……..

6) Write all computer ports and give an example for each port?

……..……
……..

7) Write five examples for hardware problems?

……..……
……..

8) Write the steps to solve the following problems in computer?

a. The computer does not function when the power button is pressed.

……..……
……

b. The keyboard or mouse does not function.

……..……
……

c. The monitor does not function.

……..……
……

d. Faulty speaker.

……..……
……

e. Network connection failure.

……..……
……

9) Write two types of software problems?

……..……
……..

10) Write five examples for Application software?

……..……
……..

11) Write five examples for application software problems?

……..……
……..

12) Write three problems relating to operating system?

……..……
……..

JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade - 08 | Mathematics

Name/Index No : ……. Mr.V.Puvanesan, B.Sc (Mathematics)

Part - 1

01)Write the next two term of the follwing.

I. 2, 5, 8, 11, …….. …….
II. 27, 22, 17, …….. …….
III. 4, 8, 12, 16, …….. …….
IV. 1, 3, 6, 10, …….. …….

02) Find the general term of the following sequences.

I. 3, 6, 9, 12, 15, …….. …….
II. 2, 4, 6, 8, …….. …….
III. 1, 3, 5 , 7, …….. …….
IV. 1, 4, 9, 16, …….. …….

03) The general term of a few number sequences are given below. Write the first five terms of each sequences.

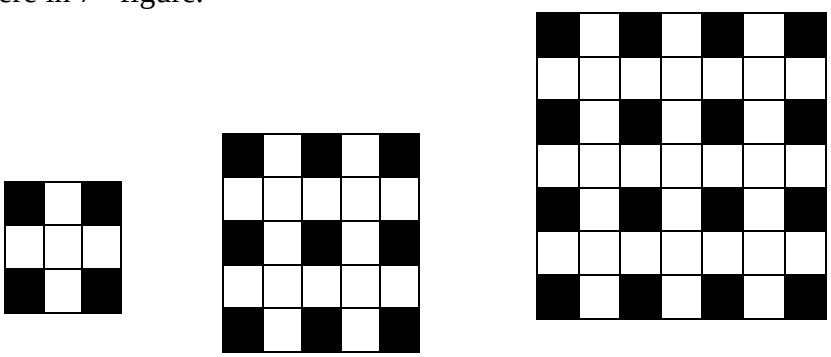
I. 2n+1
II. 20-3n
III. 6n
IV. 4n-4

04)

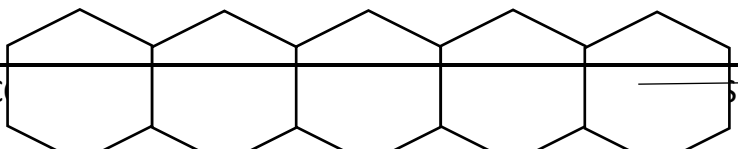
I. In the sequences 2,4,6,8…… which term is 156?
II. Find the 18^{th} term of the sequence 1,3,5,7…
III. What is the even number larger then 100 but closest to 100?
IV. Which square number 225?

05)

I. Find the sum of first 20 odd number of the number pattern starting form 1 and written in ascending order.
II. Write the number of unshaded squares in each of the figure. How many unshaded friangles should be there in 7^{th} figure.



06)



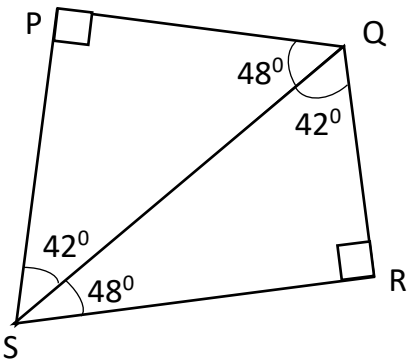
The figure shows a plan of a footpath made by using 17 congruent regular hexagonal cement block. If the perimeter of hexagon is 144cm. Find the perimeter of the path in meters.

07) The length of a rectangular vollyball court is twice its breadth.

I. If the breadth is X, What is the length.
II. Find an expression interms of X for the perimeter of the court.
III. If the perimeter of the court is 60m, find the value of X and write down the length and breadth of the vollyball court.

08)

I. Write the complement of 63^0
II. Find the supplement of X^0
III. Name 4 Pairs of complementary angles and 2 Pairs of supplementary angles in the figure.



09) Find the value of the following using number line

I. (+2 + (-6)
II. (-3) – (+2)
III. (-3) + (+5)
IV. (+7) – (+3)

10) Select those pairs whose the difference is (-3)

i)	(+1) – (+4)	ii)	(-1) – (-2)	iii)	(-2) – (+1)	iv)	(-7) – (-4)
v)	(+2) – (-4)	vi)	0 – (+3)	vii)	(-3) - 0	viii)	(-5) – (+2)

11) Simplify

i) 2x + 3x + x
ii) 5x + 2y + x -y
iii) 3ab + 2ab – 3xy + xy
iv) 3p + 2q + 2p + q – 3p

12) Find the value of each of the following

i) $\sqrt{(2 \times 5)^2}$
ii) $\sqrt{2^2 \times 3^2}$
iii) $\sqrt{3^2 \times a^2 \times b^2}$
iv) $\sqrt{3 \times 3 \times 5 \times 5 \times 5 \times 5}$

13) Find the value of the following using the knowlwdge of product of prime factors.

i) $\sqrt{256}$ ii) $\sqrt{729}$ iii) $\sqrt{676}$ iv) $\sqrt{900}$

14) Find the HEF of each set of numbers given below.

i) 12, 18 ii) 12, 24, 36
iii) 24, 36, 48 iv) 15, 20, 30

15) Find the HCF of the algebraic terms in each part given below.

i) pq, 5pq, 10q ii) 2p, 8p, 12q
iii) 6xy, 12xyz, 18xz iv) 2pq, p^2q, $6q^2$

16) Fill in the balnks.

i) 2a + 6 = __ (a+__) ii) 3a - __ + ab = a(__ - a+__)
iii) a^2 – ab - __ = __ (a-__-1) iv) 12a – 18b + 6 = __ (__-__+__)

17) There are 24 boys and 20 girls in a class. They should be grouped so that ther are equal number of boys and equal number of girls in all the groups.

I. What is the highest number of groups that can be made.
II. How many girls and how many boys will be there in each group.

18)

I. Name four platonic solids.
II. What is the shape of a face of a regular dodecahedron.
III. How many edge are ther in a regular dodecahedron.
IV. Write the Euler's relation.

19) If the following satements are true put " " and if they are wrong put "X" in the given boxes.

I. The value of $(-2)^{1001}$ and 2^{1001} should be equal. ( )
II. If $X^{11} = (-1)$ then X should be equal to (-1) ( )
III. Any power of (-1) gets the value (-1). ( )
IV. The odd powers of negative numbers give negative values ( )

20)

I. A lorry was loaded with 8t of rice. 5t 250 kg of rice was distibuted to the retail shops. find the amount of rice remaining.
II. In an aeroplane of 3t 800kg the mass of passengers is 5t 600kg and the mass of baggage is 2t 900kg. Find the total mass of the plane.

Part - II

01) In the Number pattern 1,3,5,7,…..

I. Write the next two terms.

II. Complete the table to obtain the general term of the number pattern.

Term	multiples of 2	multiples of 2-1	Number
1st Term	2x1	2x1-1	1
2nd Term	2x2	2x2-1	3
3rd Term	2x3	2x3-1	5
4th Term	2x4	_____	_____
|	|	|	|
nth Term	2x__	_____	_____

III. Which tern is 45?

IV. When we add the first term, first teo term, first three terms…..and so on. we can get another number patton. Write down that number pattern.

V. Write the general term of that number pattern.

02)

I. What is te 20^{th} square number?

II. What is the 19^{th} triangular number?

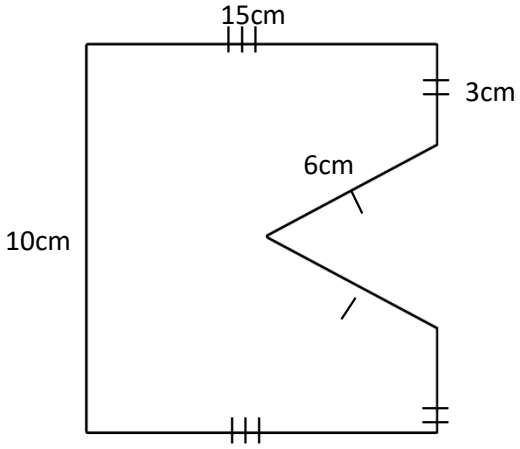
III. What is the 20^{th} triangular number?

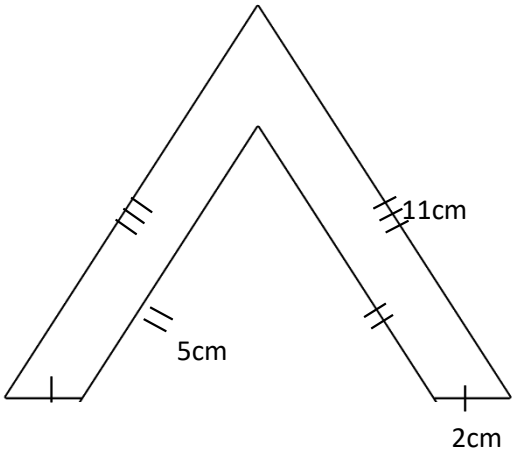
IV. What is the sum of the 19^{th} and 20^{th} triangular numbers?

V. What is the relationship between the answer abtained (i) and (iv)?

03)

I. Calculate the perimeter of the following figuers.



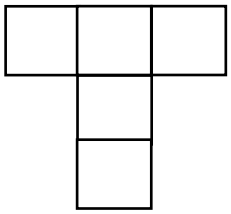


II. An equilateral triangle is drawn on one side of a square. The perimeter of the whole diagram is 60 cm. Find the Length of the side of the square.

III. A figure of the shape given below is obtained by connecting five squares which are congruent to each other. Taking the length of a side of each square as X.

a. Write the perimete of the composite figure interms of X.

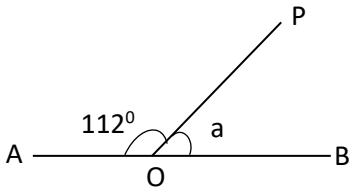
b. Calculate the perimeter of one square, if the perimeter of the composite figure is 90cm.



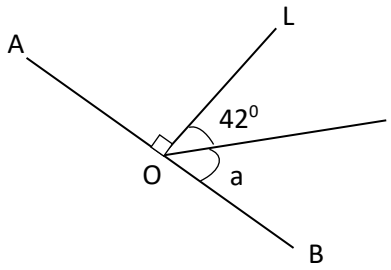
04)

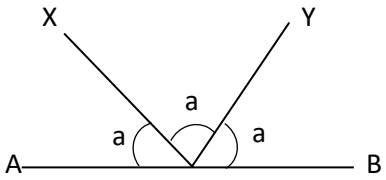
I. In each of the following figures. AB is straight line. Find the value of a.

(i)



(ii)



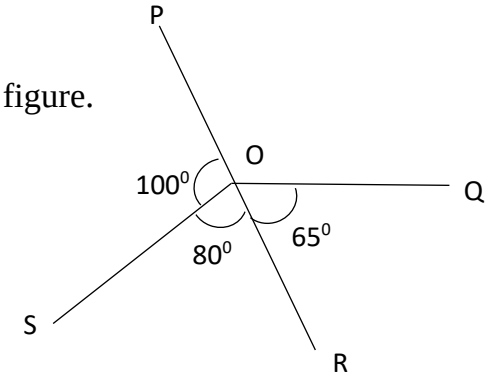


(iii)

II.

a. Name a pair of adjacent angles in the figure.

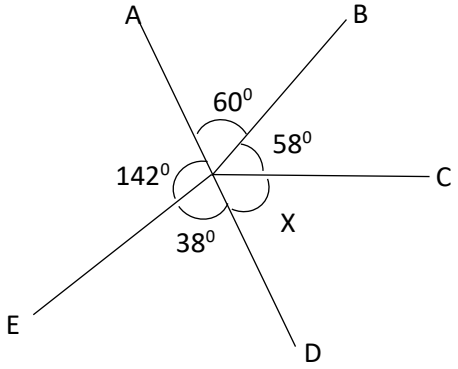
b. Find the value of POQ.



III. According to the date given in the figure,

a. Name a straight line and give reasons.

b. Find the value of X.



05)

I. Simplify

a) (-3) + (+5)

b) (-3) x (+2) x (-1)

c) (-1) x (-2) + (-3) x (-1)

d) (-12) ÷ (+4)

e) $\frac{(-3)\times(-4)}{(+2)}$

f) $\frac{(+9)\times(-8)}{(-4)\times(+3)}$

II. Fill in the Blanks.

a) …….. x -3 = 3

b) (-2) x (-2) x __ = (-8)

c) $\frac{-24}{__} = 4$

d) $\frac{__}{(-12)} = 6$

e) $\frac{(-40)}{(+8)\times__} = (-1)$

f) $\frac{__\times(-7)}{(-2)\times__} = \frac{(-28)}{__} = (+7)$

III. simplify.

a) (-3.5) + (+5.2)

b) (+5.1) + (3.24) + (-0.7)

c) (-4.2) – (-4.2)

d) (-4) + (-7 ½)

e) $\frac{1}{5} - \left(-\frac{4}{5}\right)$

f) $5 - \left(-\frac{1}{2}\right) - \left(+3\frac{1}{2}\right)$

06)

I. Fill in the blanks.

Solid	Numbers of vertices (V)	Number of Faces (F)	Number of edges (E)	V+F	Is euler's realtionship satisfied.
Cube					
Regular Tetrahedron					
Regular Octahedron					
Regular Do decahedron					
Regular Icosahedron					
Cuboid					
Square pyramid					

II. In a pyramid with a pentagonal base.
   a) How many edges are ther?
   b) How many faces are ther?
   c) How many vertices are there?
   d) Show that this solid agrees with the Euler's relation.

III. Remove the brackets and simplify.
   a) 2(x+)+1
   b) 3x (a+x) +2 (a-x)
   c) 5(2x+y) +2 (x+y)
   d) 4(p+2q+r) +2 (p+q)

IV. Considering a=2, b=(-1), c=3. Find the values of the following expressions.
   a) $a^2 + bc$
   b) a+b-c
   c) $(a+b+c)^2$
   d) 2a+3b-c

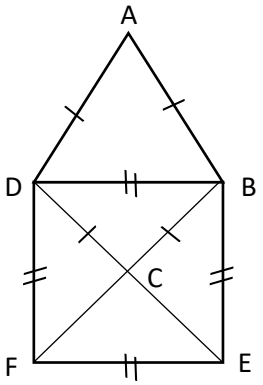
V. The cost of a book is Rs.2x and the cost of an umbrella is Rs 3y.
   a) Write an algebraic expression for the total cost of a book and of an umbrella.
   b) Five parcls, each containing a book and umbrella are bought for the pupils to be given as prizes. Write an algebraic expression with brackets for the total cost of these five parcels.
   c) Show the above expression in (ii) as an expression without brackets.

VI. Factorize

a) $2x + 4y + 6$
b) $x^3 + x^2 + x$
c) $a^2b - a^2c - a^2d^2$
d) $6-15p+9q$
e) $ap^2 - ap - a$
f) $20x^2 - 12xy + 18xy^2$

VII. The area of the square ABCD in the figure is $200cm^2$

a) What is the area of $\triangle$BCD?
b) What is the area of the square BEFD ?
c) What is the Length of one side of the square BEFD?



07)

I. Show that $(xy)^4 = x^4xy^4$

II. Show that $(\frac{a}{b})^5 = \frac{a^5}{b^5}$

III. Write each expression given below as a product of powers.

a) $(2x5)^4$
b) $(2x3x5)^2$
c) $(7m)^3$
d) $(2ab)^2$

IV. Write each expressions given below as powers of product.

a) $5^2 \times 3^2$ b) $3^3 \times 4^3$ c) $p^2 \times q^2$
d) $a^5 \times b^5 \times c^5$ e) $64a^3$ f) $49m^2$

V. Find the value.

a) $(-1)^{2020}$ b) $(-4)^3$ c) $(-2020)^1$
d) 1^{2019} e) $(-3)^5$

08)

I. Convert the following massers to Kiligrams (kg)

a. 5t b. 0.8t c. 6.07t
d. 2t 270kg e. 202t 10kg

II. Convert the following messes to metrictons (t)

a) 2000kg b) 700kg c) 11501kg
d) 2t 800kg e) 9005kg

III. Do the following multiplications.

a) 20t x5=

b.

t	kg
52	50
	x4

c.

t	kg
3	20
	x4

d.

t	kg
24	710
	x7

e.

t	kg
12	225
	x4

IV. Do the following divisions.

a) 306t ÷ 5

b) 25t 800kgn ÷ 5

V. 14 concrete beams each 20t are fixed between two posts in constructing a fly over. Find the total mass the two posts bear.

VI. 400 bags of rice each of 50kg are loaded in a lorry of mass 3t 400kg. can this vehicle travel safely over a bridge which can bear the weight upto 20t givn reason.

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JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

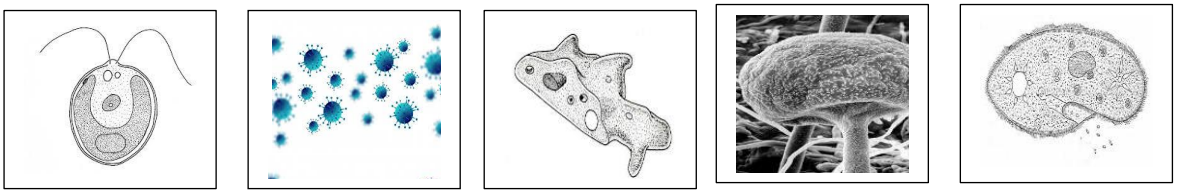
Grade - 08 | Science

Name/Index No : ……

Mr.S.Harishankar, B.Sc, NDT(Science)

Give correct Answers

I. Some micro-organism pictures are given to you as shown in our environment.



A B C D E

1. Identify the organism A, B, C, D, E

   A.....

   B.....

   C.....

   D.....

   E.....

2. Which one of the organism that only observes under the electron microscope?
   ……
3. Mention autotrophic organisms.
   ……
4. Give two industrial products that used by micro-organism yeast.
   ……
5. Organism B that show living and non-living characters give one reason for living character.
   ……
6. Which micro-organism that caused to typhoid?
   ……
7. How to call changes of microbial activities rich in lipid foods?
   ……
8. Give two benefits of human by micro-organisms.
   ……

Unit – 2

Animal Classification

1. Classification is important to identify the organism.
   Write the answer use to following organisms.

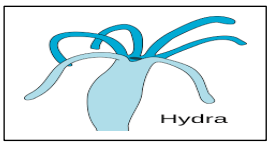
A



B



C



D



E



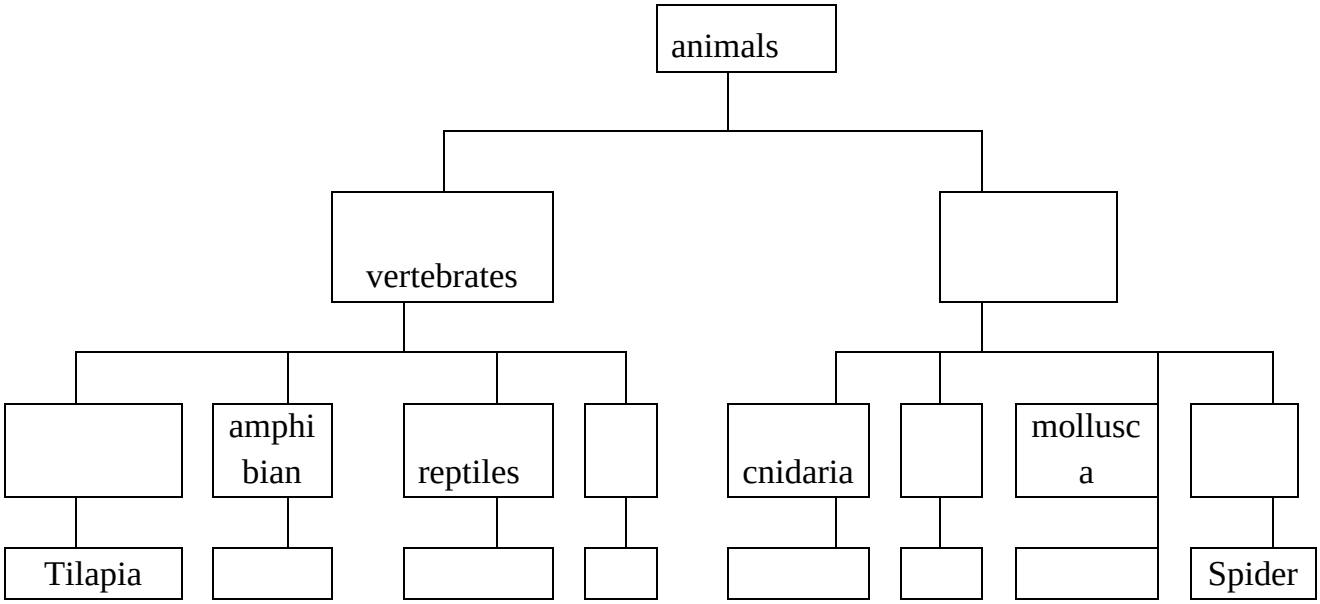
F



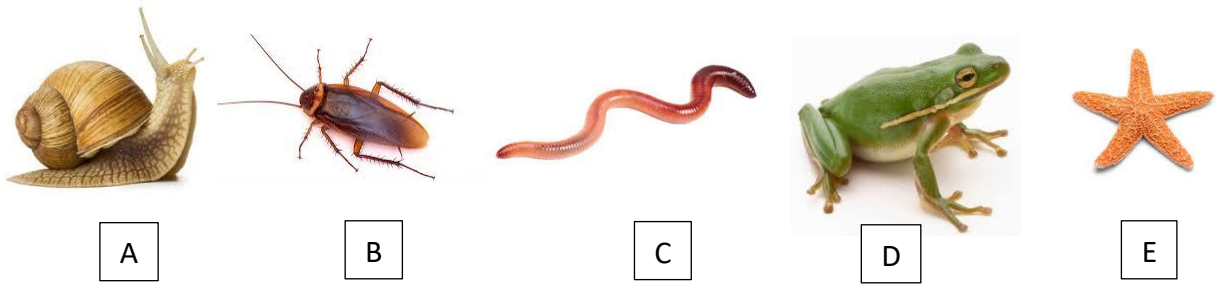
1. Differentiate the above organisms vertebrate and invertebrates.
   Vertebrates : ……
   Invertebrates : …….
2. Mention the group of organism above identifies the invertebrates.
   ……..
3. Which one of the above animal has jointed appendages?
   ……
4. Mention the respiratory organs of organism E.
   ……
5. Which organism has wet skin?
   ……
6. Which is the shape of body in organism D ? Mention the benefit it's have above shape of organism?
   ……
7. Give three common features of organism A.
   ……
   ……
   ……
8. Which organism has radial symmetry?
   ……
9. Which are same group of organisms?
   ……
10. Mention two benefits to classify the organisms.
    ……
    ……

II. Fill in the following chart that indicates classify the animals our environment.

1.



2. The following animals that shown science activity in the laboratory..



Write the suitable English letter that correct features of animals.

1. Exoskeleton : ……
2. Muscular foot : ……
3. Has vertebral column : ……
4. Segmented body shape : ……

3. Give three differences between birds and mammals.

……

……

……

Unit - 3

I. Answer the questions use to following pictures.



A



B



C



D



E

1. Which is/ are underground stems?
   ……
2. Write three important of underground stems.
   ……
3. Which is/are store food in tap root?
   ……
4. Which is reproducing runners?
   ……

II. 1. What is transpiration?
   ……
2. In which area of environment plants that adapted to reduce transpiration?
   ……
3. Fill in the following table.

No.	Plants	Adaptations to reduce transpiration
1.	Cactus	
2.	Temple flower	
3.	Pirattai / Navahandi	
4.	Pumpkin	
5.	Aloe	

4. Fill in the following table.

No.	Leaf arrangement	Example
1		Guava
2	Whirl arrangement	
4		Kanda /Vattakkanni
5	Alternative arrangement	

Unit - 4

I. Following chemicals are used in laboratory activities.
Sulphur, Carbon dust, Copper sulphate, Condis, Iron filing.

1. Identify the colour of above chemicals.

Chemicals	Colour
Sulphur	
carbon dust	
copper sulphate	
Condis solution	

2. What is element?
……

3. Classify above chemicals as elements and compounds

Element	Compound

4. Mention the elements that are found in copper sulphate.
……
5. Give the chemical name of common salt.
……

6. Which chemical compound that is formed heat within iron dust and sulphur?. Give the colour of the compound?

   ……

7. Give two observations when heating the sulphur.

   ……

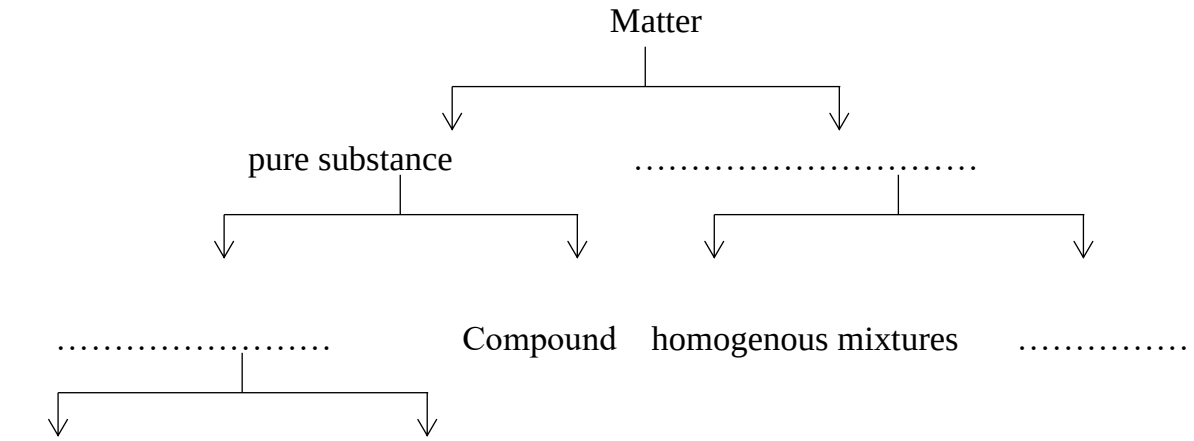
8. How to separate sulphur and iron filing are mixed?

   ……

9. Which chemical that used to identify the water in laboratory?

   ……

10. Fill in the table.



II. The following figure that show measure the density of pure water.



1. What is density?

   ……

2. What is the international unit of measuring density?

   ……

3. Name the instruments X and Y that used to above activity.

   X - …….

   Y - …….

4. Which quantity that measure the instrument Y ?

……

5. Which activity that should be first before fill with water X ? Mention the reason.

……

6. Which is high density liquid?

……

7. Give one use of measure the density of substance.

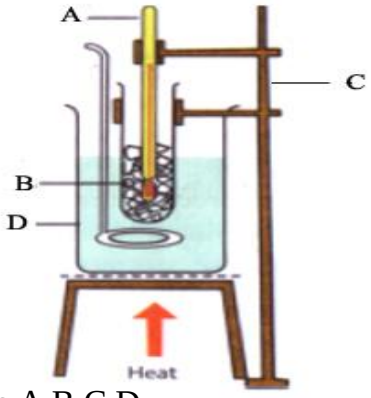
……

8. What is your observation when cork put in to the water? Mention the reason for your answer.

……

……

III. The following experiment to find out whether the melting point of pure substances has a constant value.



1. Identify the apparatus A,B,C,D

   ……

2. What is your observation when heated?

   ……

3. What is melting point of ice?

   ……

4. What is the use of stirrer?

   ……

5. How to call the liquid convert to gas at particular temperature?

   ……

6. Fill in the following table.

No.	Physical qualities	Instances	substance
1.	Hard		Diamond
2.	Expand	Measure the temperature	
3.	Soft		
4.	Elasticity		

5.		Cooking vessel	

Unit -5

01. Some of the sounds we hear in the environment occur naturally while some others occur artificially.

1. How to produce sound?
   ……

2. Write five examples sound that produce by natural and artificial things.

Natural sounds	Artificial sounds

3. What is frequency? mention the unit of frequency?
   ……
4. What is the frequency of an object vibrates 100 within 2 seconds?
   ……
5. Which one is high frequency (P & Q) ?



P



Q

6. Classify the following instruments according to the vibrating parts.
   (Drum, Violin, Flute, Veena, Thabla, Udukku)
   ……
   ……

7. Sound producing set up arranged by a student that is given to you.



A B C D E

1. In which part vibrates that produce the sound above set up?
   ……
2. Which glass is produce high frequency sound when is kept in order A to E.
   ……

3. In high frequency of sound produce veena by vibrating …… (Long length/ short length) of string.

4. Membrane of drum …….. (thick/ thin) vibrating low frequency of sound produce.

5. Write the different between music and noise.
   ……..……
6. What is sound therapy?
   ……
7. Give two benefits of sound therapy.
   ……
8. Mention the frequency range of human hearing.
   ……
9. How about vibration of musical instrument when producing music?
   ……