

7.3 Institutional Distinctiveness



Yashwant Shikshan Sanstha's

Miraj Mahavidyalaya Miraj

Performance of the Institution in one area distinctive to its Priority and Thrust

Fostering a Spirit of Scientific Enquiry and Creativity among the Students:

One of our very important priorities is to foster a Spirit of Scientific Enquiry and Creativity among the Students. To achieve this, we facilitate a wide range of educational activities throughout the year. These activities include organizing sky observation programs, conducting exciting scientific experiments, hosting science quizzes, delivering popular science lectures, showcasing science demonstrations, and arranging visits to scientific institutions. The Sky observation programs were arranged in cities, as well as in rural areas for the benefit of students and for the masses. Various rare astronomical events were through the Celestron 8SE astronomical telescope. The department of Physics and Science Forum conducted these entire sky observation programs. During sky observations, full moon, supermoon, moon eclipse solar eclipse, mars, Jupiter, Saturn as well as Horse Head Nebula, occultation of Mars by moon, conjunctions of planets were shown to the viewers.

The students exhibited posters and newspaper clippings related to Chandrayan 3 in orders to generate enthusiasm for its soft landing. The live broadcast of the Chandrayan 3 soft landing event was displayed on an LCD screen through the ISRO website on August 23, 2023.



Yashwant Shikshan Sanstha's

Miraj Mahavidyalaya Miraj

**Rare Astronomical Events
And
Sky Observations
Through Celestron Telescope**



Celestron NexStar 8SE Astronomical Telescope

Dr. C.T.More

Assistant Professor (Physics)

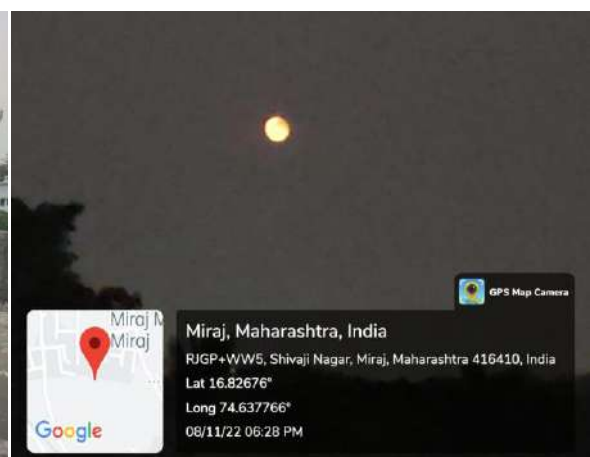
Sky Observation



Craters on the Moon! Copernicus Crater is visible in the image. This image was captured on the early night of 25th March 2023 by Dr. C. T. More Assistant Professor of Physics with the help of mobile and self build mobile attachment device for the Celestron Telescope. The large size image was displayed on wall Board for the students.



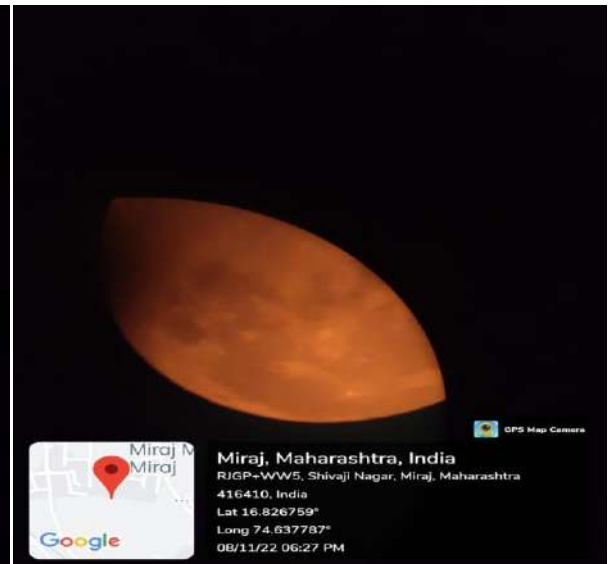
Sky observation from college terrace



Sky observation from college terrace



Sky observation –Blood Moon



Blood Moon with eclipse shadow



Sky observation from college terrace



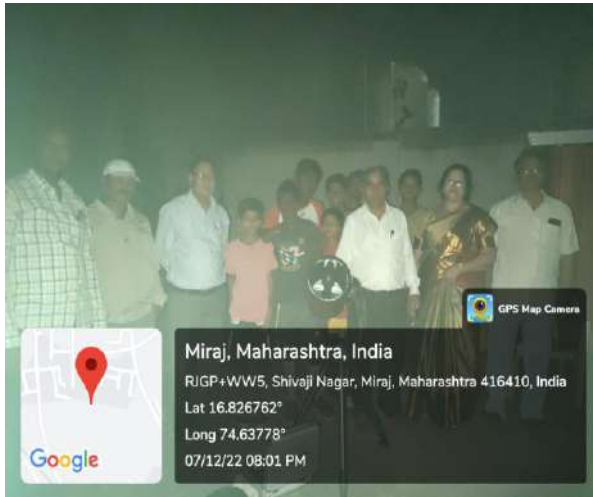
Sky observation from college terrace



Sky observation from college terrace



Sky observation from college terrace



Sky observation from college terrace

Sky observation from college terrace



Sky observation –Jupiter with its moons

Sky observation from Old Panhala



Sky observation from Dandoba Hill

Sky observation from Dandoba Hill



Sky observation from Dandoba Hill

Sky observation from Dandoba Hill



Sky Observation at Dandoba Hill



Sky Observation at Kanchanpur



Sky Observation from College Terrace



Sky Observation from College Terrace



Chandrayan 3 Posters



Chandrayan 3 soft landing Live show



Chandrayan 3 soft landing Live show



Chandrayan 3 soft landing Live show

खगोलप्रेमींनी घेतला अवकाश निरीक्षणाचा आनंद राष्ट्रीय विज्ञान दिनी मिरज महाविद्यालयातर्फे दंडोबा डोंगरावर आयोजन

सकाळ वृत्तसेवा

मिरज, ता. ४ : मिरज महाविद्यालयातर्फे राष्ट्रीय विज्ञान दिनानिमित्त श्री क्षेत्र दंडोबा डोंगर येथील उंच टेकड्यावरून अवकाश निरीक्षणाचा उपक्रम राबविण्यात आला. त्यात कवठेमहाकाळ, मिरज, सांगली येथील सतरहून अधिक खगोलप्रेमींनी सहभाग घेतला.

सध्या शहरातील हवेचे प्रदूषण मोठ्या प्रमाणात वाढले आहे, ज्यामुळे अवकाश निरीक्षणांमध्ये मोठा व्यत्यय येतो. तसेच शहरातील मोठ्या प्रमाणातील प्रकाशाचे प्रदूषणही व्यत्यय ठरत आहे. त्यामुळे अवकाश निरीक्षण व्यवस्थित करता येत नाही. याला पर्याय म्हणून शहरापासून

३० किलोमीटरवर पूर्वेला असलेल्या दंडोबा डोंगर येथून अवकाश निरीक्षण करण्यात आले.

यंदा महाविद्यालयाने राष्ट्रीय विज्ञान दिन अवकाश निरीक्षणाने साजरा केला. आठ इंच व्यासाच्या सेलेस्ट्रॉन दुर्बिणीद्वारे अवकाशातील गुरू, शुक्र, चंद्र, मंगळ आदी ग्रहगोलंज्यतिरिक्त 'ओरिएन न्युबेल', काही आकाशगंगांचे निरीक्षण करण्यात आले. हा उपक्रम माजी आमदार प्रा. शरद पाटील, प्राचार्य डॉ. ए. आर. जाधव यांच्या मार्गदर्शनाखाली राबविण्यात आला. अवकाश निरीक्षणाचे नियोजन पदार्थविज्ञान विभागप्रमुख प्रा. डॉ. सी. टी. मोरे, विज्ञान मंचाचे समन्वयक डॉ. एन. डी. पोटफोडे, डॉ. एस. सी. यादव यांनी केले.



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खगोलप्रेमींनी घेतला अवकाश निरीक्षणाचा आनंद राष्ट्रीय विज्ञान दिनी मिरज महाविद्यालयातर्फे दंडोबा डोंगरावर आयोजन

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सध्या शहरातील हवेचे प्रदूषण मोठ्या प्रमाणात वाढले आहे, ज्यामुळे अवकाश निरीक्षणांमध्ये मोठा व्यत्यय येतो. तसेच शहरातील मोठ्या प्रमाणातील प्रकाशाचे प्रदूषणही व्यत्यय ठरत आहे. त्यामुळे अवकाश निरीक्षण व्यवस्थित करता येत नाही. याला पर्याय म्हणून शहरापासून

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दैनिक सकाळ-०५/०३/२०२३

दंडोबा डोंगरावरून आज अवकाश निरीक्षण

मिरज : राष्ट्रीय विज्ञान दिनाचे औचित्य साधून आज मंगळवारी (दि. २८) रोजी दंडोबा डोंगरावर सायं ७ ते ८ या कालावधीत अवकाश निरीक्षण केले जाणार आहे. मिरज महाविद्यालयाच्या मौक्तिकशास्त्र विभागाकडून खगोल प्रेमींसाठी हा उपक्रम आयोजित करण्यात आला आहे. यानिमित्ताने खगोल प्रेमींना अवकाश निरीक्षणाची संधी मिळणार आहे.

मिरज शहरातील हवेचे प्रदूषण मोठ्या प्रमाणात

वाढले आहे. यामुळे अवकाश निरीक्षणामध्ये मोठा व्यत्यय येत आहे. शहरातील प्रकाशाचे प्रदूषणही अवकाश निरीक्षणात मोठा व्यत्यय ठरत आहे. अवकाश निरीक्षण व्यवस्थित करता यावे यासाठी शहरापासून दूर १७ कि. मी. पूर्वेला दंडोबा हिल येथून अवकाश निरीक्षण केले जाणार आहे. सेलेस्ट्रॉन दुर्बिणीद्वारे अवकाशातील गुरू, शुक्र, चंद्र, मंगळ इत्यादी ग्रहांव्यतिरिक्त ओरिएन न्युबेला आकाशगंगा यांचे दर्शन मिळणार आहे.

देशातील वैज्ञानिक विचारांच्या नागरिकाना संधी देणे, लोकांना प्रोत्साहित करणे तसेच विज्ञान आणि तंत्रज्ञानाबद्दल विद्यार्थी व नागरिकांमध्ये आवड निर्माण करण्यासाठी २८ फेब्रुवारी रोजी डॉ. सी. व्ही. रामण यांच्या रामण परिणाम (रामण इफेक्ट) च्या शोधाच्या सन्मानार्थ राष्ट्रीय विज्ञान दिन साजरा केला जातो. त्यातील एक उपक्रम म्हणून मिरज महाविद्यालयाने अवकाश निरीक्षणाच्या कार्यक्रमाचे आयोजन केले आहे.



दंडोबा येथे अवकाश निरीक्षणाची मिरज महाविद्यालयातर्फे संधी

मिरज, ता. २५ : येथील मिरज महाविद्यालयातर्फे राष्ट्रीय विज्ञान दिनाचे औचित्य साधून दंडोबा हिल (दंडोबा डोंगर) येथून मंगळवारी (ता. २८) सायंकाळी ७ ते ८ या कालावधीमध्ये अवकाश निरीक्षण केले जाणार आहे.

सध्या मिरज शहरातील हवेचे प्रदूषण मोठ्या प्रमाणात वाढले आहे, यामुळे अवकाश निरीक्षणामध्ये मोठा व्यत्यय येतो, तसेच शहरातील मोठ्या प्रमाणातील प्रकाशाचे प्रदूषणही अवकाश निरीक्षणातील मोठा अडथळा ठरत आहे. त्यामुळे अवकाश निरीक्षण व्यवस्थित करता येत नाही. यासाठी पर्याय म्हणून शहरापासून ३० किलोमीटर दूर पूर्वेला असलेल्या दंडोबा हिल

(दंडोबा डोंगर) येथून अवकाश निरीक्षण होणार असल्याची माहिती प्राचार्य डॉ. ए. आर. जाधव यांनी दिली.

ते म्हणाले, दरवर्षी २८ फेब्रुवारीला डॉ. सी. व्ही. रामण यांच्या रामण परिणामाच्या (रामण इफेक्ट) शोधाच्या सन्मानार्थ राष्ट्रीय विज्ञान दिन साजरा केला जातो. यंदा महाविद्यालय अवकाश निरीक्षणाने हा दिन साजरा करीत आहे. हे निरीक्षण आठ इंच व्यासाच्या 'सेलेस्ट्रॉन' दुर्बिणीद्वारे अवकाशातील गुरू, शुक्र, चंद्र, मंगळ आदी ग्रहोलाव्यतिरिक्त ओरिएन न्युबेला, काही आकाशगंगा यांचे दर्शन या दुर्बिणीद्वारे घेता येणार आहे. हा उपक्रम विद्यार्थी, नागरिक व खगोलप्रेमींना मोफत असणार आहे.

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Yashwant Shikshan Sanstha's
MIRAJ MAHAVIDYALAYA MIRAJ

Academic Calendar of Rare Astronomical Events 2022-23

Sr. No.	Month	Event
1	July 2022	Sky Observation
2	August 2022	Full Moon, Supermoon
3	December 2022	Sky Observation
4	February 2023	Sky Observation
5	March 2023	Sky Observation
6	August 2023	Chandrayan 3 –Event
7	August 2023	Chandrayan 3 –Soft Landing Live Show

Dr. C.T. More
Sky Observations

PRINCIPAL,
MIRAJ MAHAVIDYALAYA, MIRAJ.

Dr. A.R. Jadhav
Principal



Yashwant Shikshan Sanstha's
MIRAJ MAHAVIDYALAYA MIRAJ

Report on

Sky Observation of Rare Astronomical Events 2022-23

The Sky observation programs in this year were conducted according to various Rare Astronomical Events

In these programs various astronomical events were shown to the college students as well as peoples from this Sangli Miraj and nearby villages.

The main telescope used in these programs was Celestron 8SE. The main resource person who conducted these entire sky observation programs was Dr. C. T. More Assistant Professor of Physics with the help of mobile and self build mobile attachment device for the Celestron Telescope.

During sky observations, full moon, supermoon, moon eclipse solar eclipse, mars, Jupiter, Saturn as well as Horse Head Nebula, occultation of Mars by moon, conjunctions of planets were shown to the viewers. Chandrayan 3 –Event, Chandrayan 3 –Soft Landing Live Show also shown on LCD screen.

The main idea of the Sky observation program suggested by Hon. Prof. Sharad Patil, Chairman, Yashwant Shikshan Sanstha. All the programs were carried out under the suggestion and guidance of Principal Dr.A.R.Jadhav. Timely help and cooperation received from Vice Principal and NAAC Co-Ordinator Prof.Mrs S.P.Patil [Science], Vice Principal Dr.S.P.Patil [Arts and Commerce] NAAC Co-co-ordinator Dr. N.D.Potphode and Dr. S.C.Yadav Head, Department of Physics.

Dr. C.T. More
Sky Observations



Programs Conducted by Science Forum

Yashwant Shikshan Sanstha's

Miraj Mahavidyalaya, Miraj

IQAC & Science Forum

REPORT ON

State Level Science Quiz Competition on the "National Science Day"2023



The National Science Day was celebrated on 28th February 2023. The theme for National Science Day 2023 is “**Global Science for Global Wellbeing**”. On this occasion, Yashwant Shikshan Sanstha's Miraj Mahavidyalaya, Miraj under **IQAC & Science Forum**, has organized State Level Science Quiz Competition for the students to update their basic scientific knowledge. Total 247 students across the state from the districts viz. Kolhapur, Sangli, Satara, Sindhudurga, Chandrapur, Gadchiroli, have been participated. The quiz was of 100 marks with 50 questions from different Science subjects like Botany, Zoology, Physics and Chemistry. To update the basic knowledge of Science was the main objective of this quiz.

Link of Science Quiz-

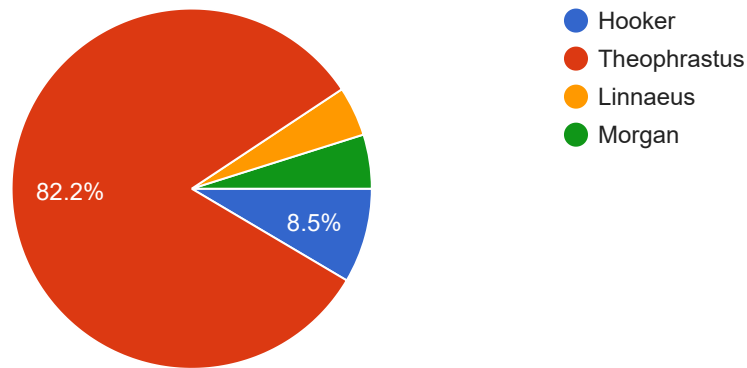
<https://docs.google.com/forms/d/1M0DSEGU8jfaZnErz79XfnZ2yZtyg4QNCxZEK/edit>

Following are the responses given by the students to the quiz.

1. is Father of 'Botany'.

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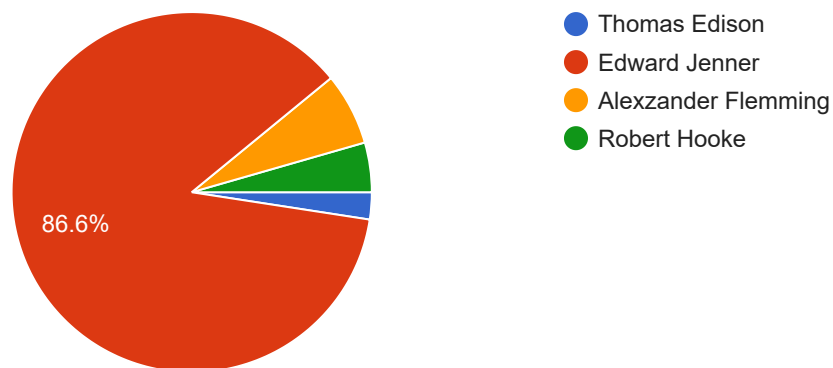
247 responses



2. First vaccine was founded by.....

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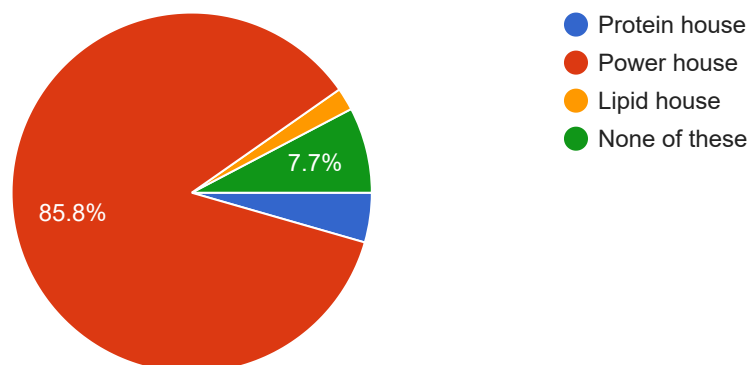
247 responses



3. Mitochondria is aof cell.

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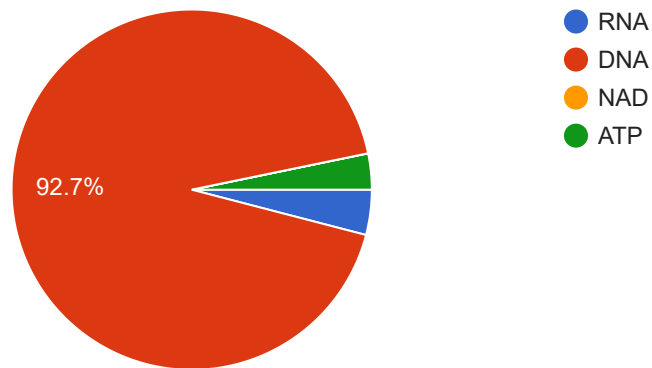
247 responses



4. Genetic material present in nucleus in the form of

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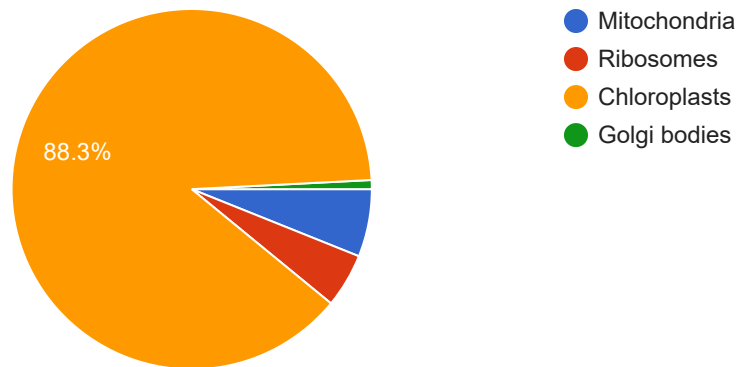
247 responses



5. Photosynthesis occurs in of cell.

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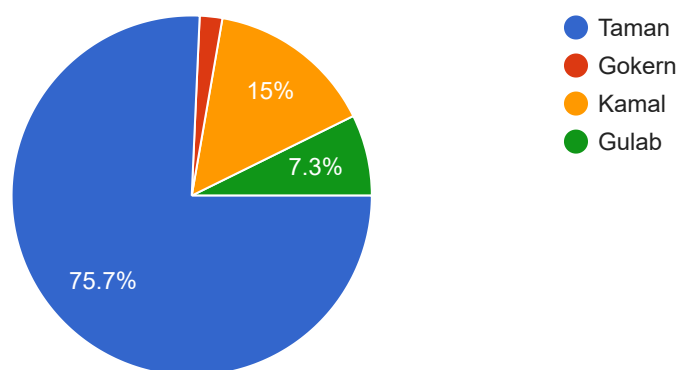
247 responses



6. is state flower of 'Maharashtra'.

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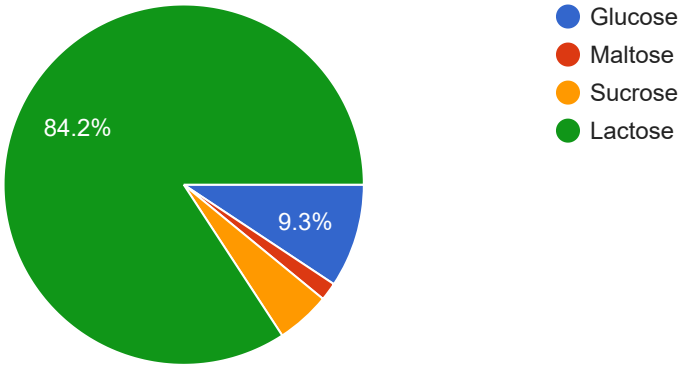
247 responses



7.is sugar present in 'milk'.

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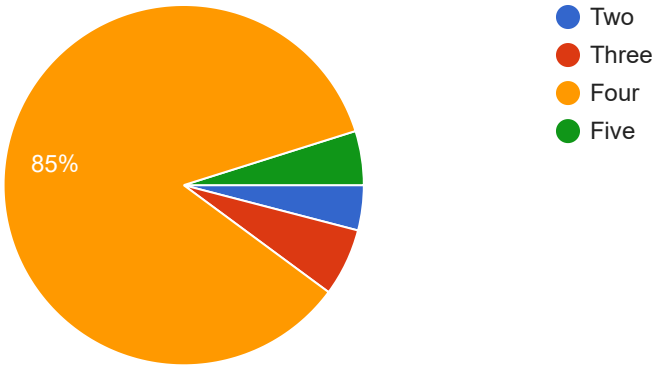
247 responses



8.types of blood groups found in human.

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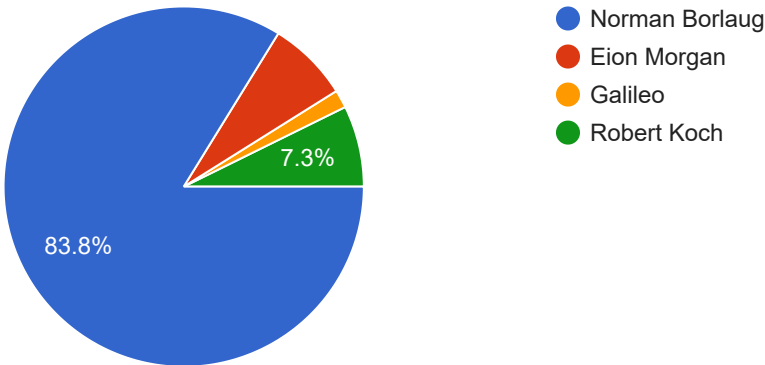
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9. is the 'Father' of Green Revolution in world.

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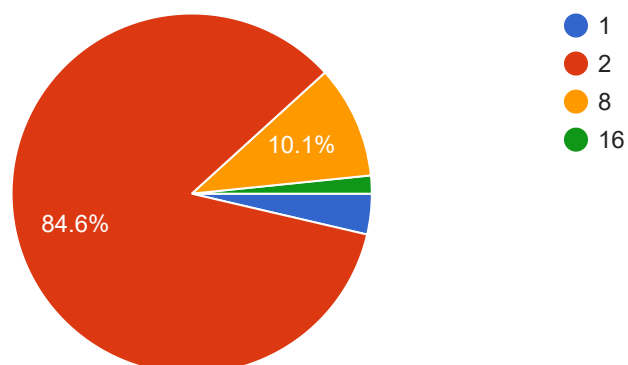
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10. How many electrons can the s-orbital accommodate?

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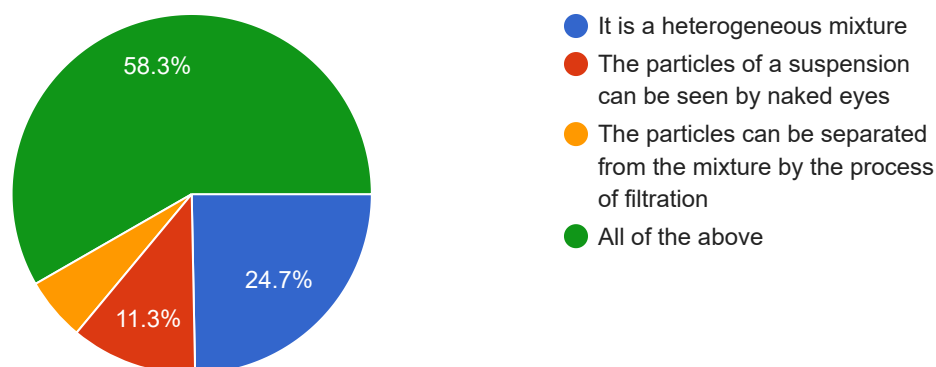
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11. Which of the following is correct about suspension?

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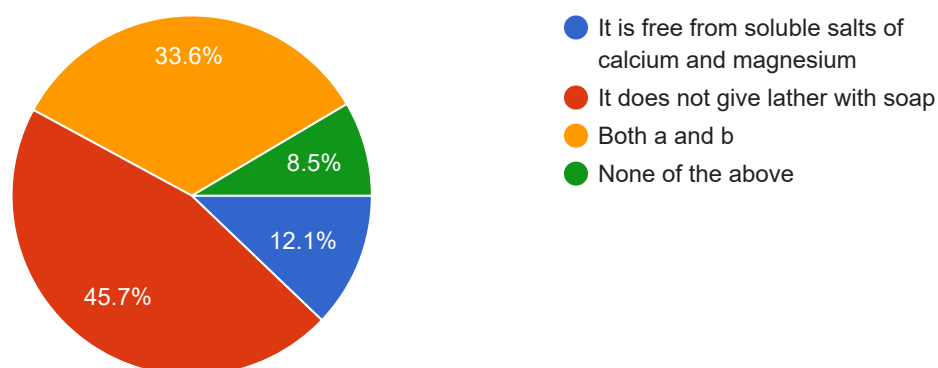
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12. Which of the following is correct about Hard water?

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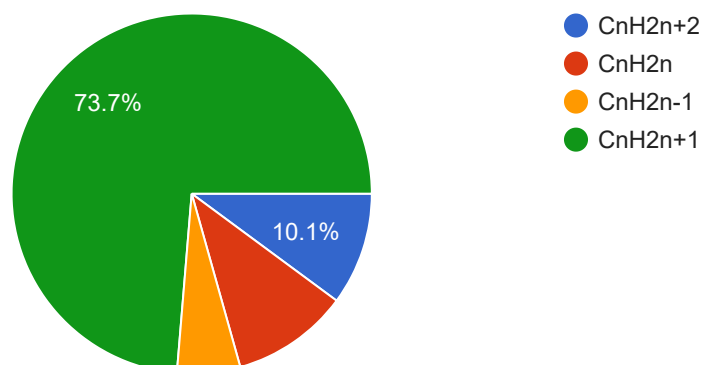
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13. What is the general formula for alkyl groups?

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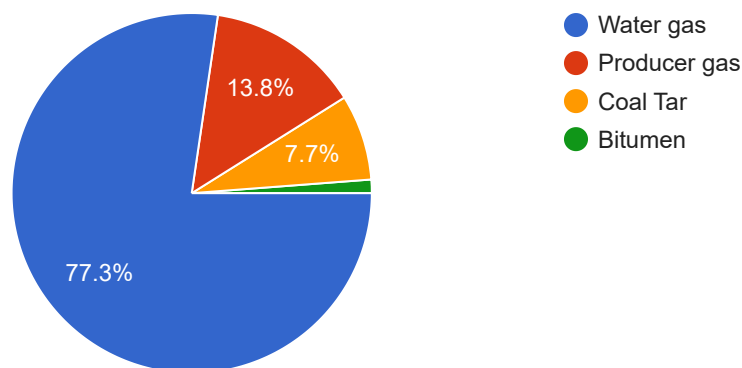
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14. Which of the following represents the mixture of carbon monoxide and hydrogen?

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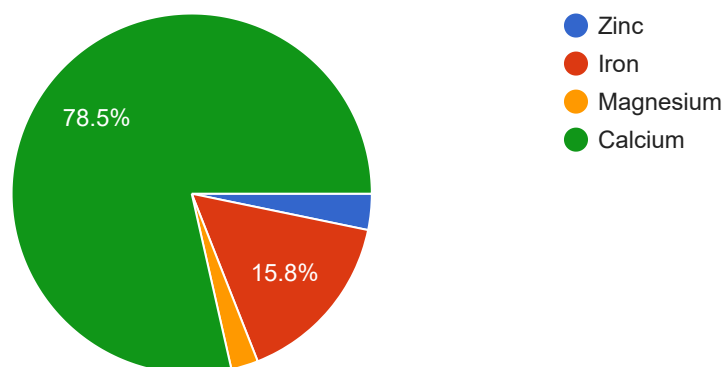
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15. Which is the most abundant metal in the human body?

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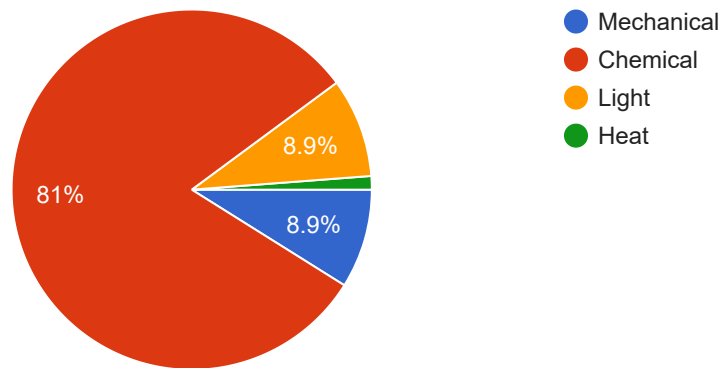
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16. A battery converts which energy to electrical energy?

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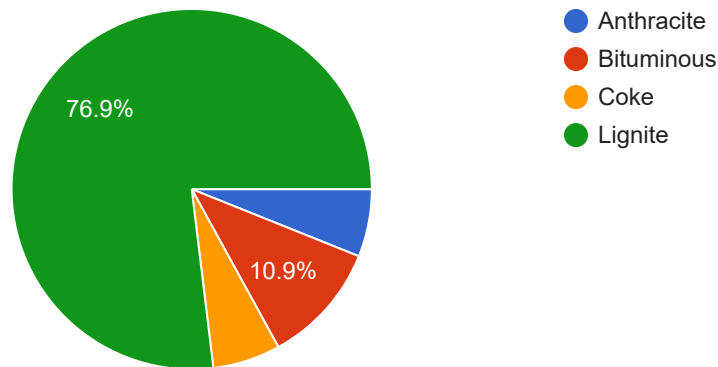
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17. Which one of the following is known as the 'brown coal'?

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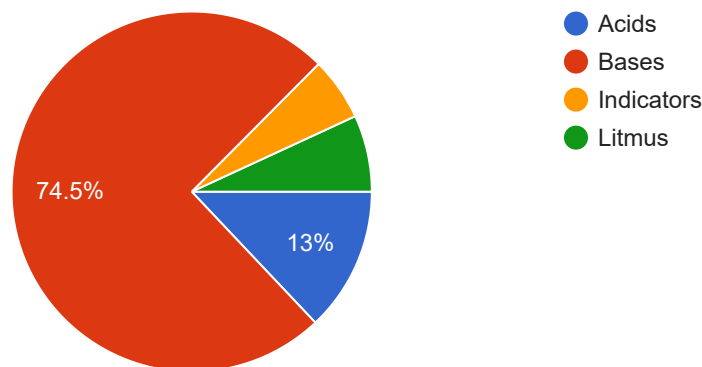
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18. Substances which are generally bitter in taste and feel soapy on touching are known as:

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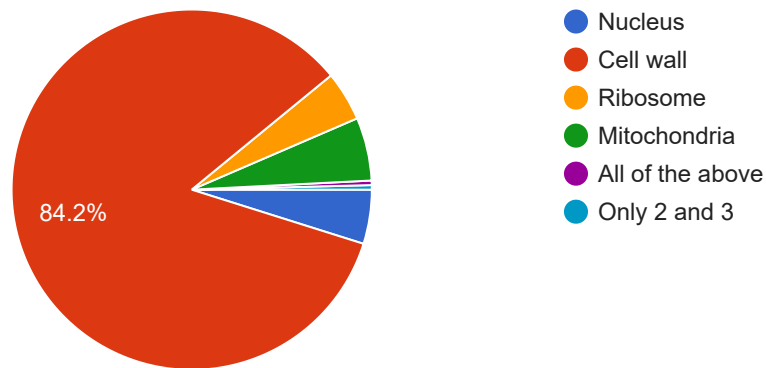
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19.is absent in animal cell.

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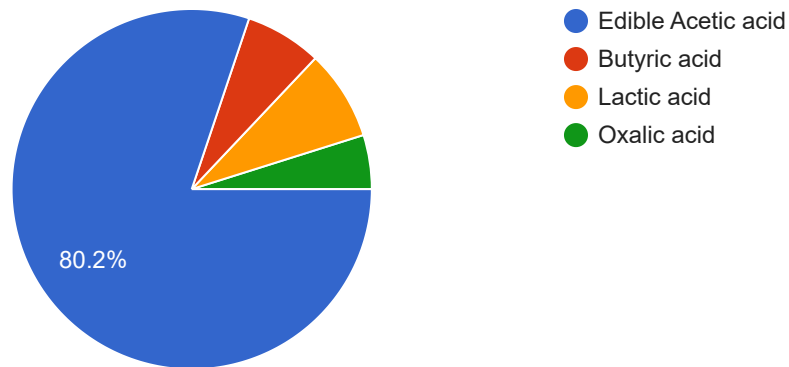
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20. Which of the following represents vinegar?

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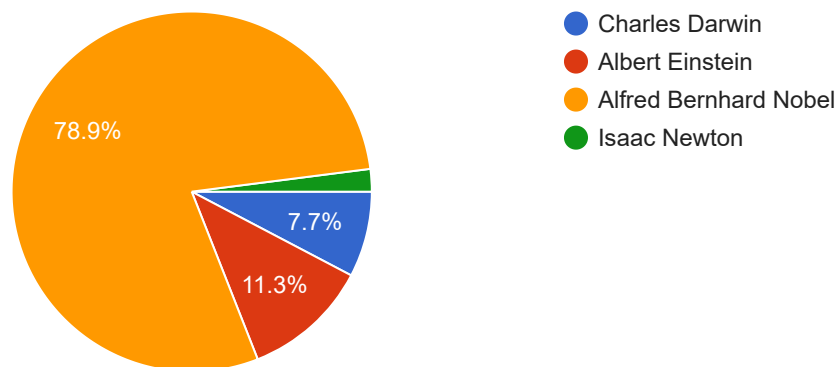
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21. After whom is the chemical element with atomic number 102 named?

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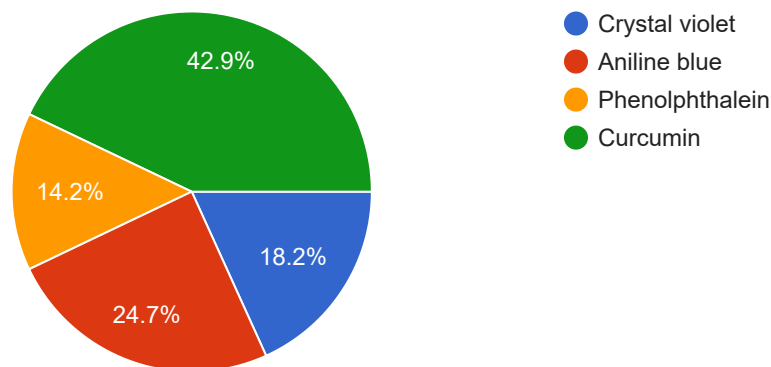
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22. Which of the following is a natural dye?

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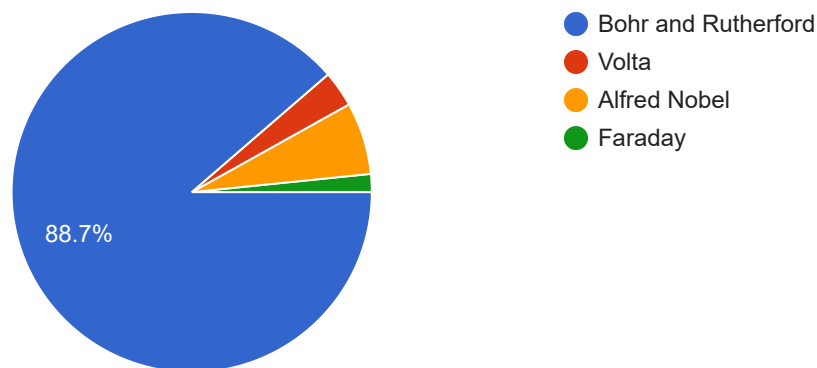
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23. Who developed the model of atomic structure?

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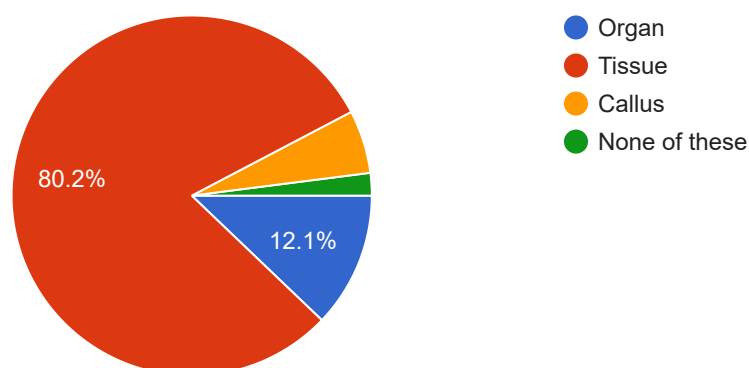
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24. Organized mass of cells which carry out specific function is called.....

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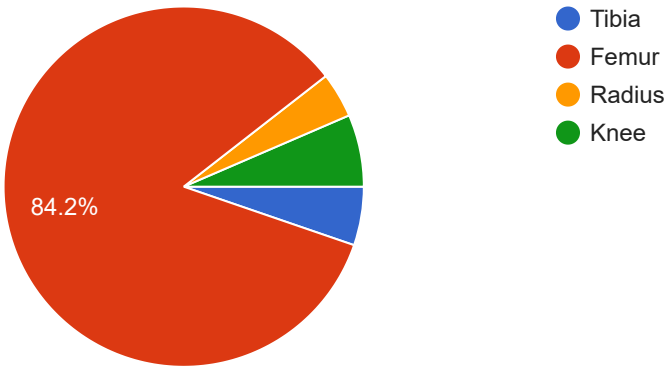
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25. The largest and longest bone in the human body is.....

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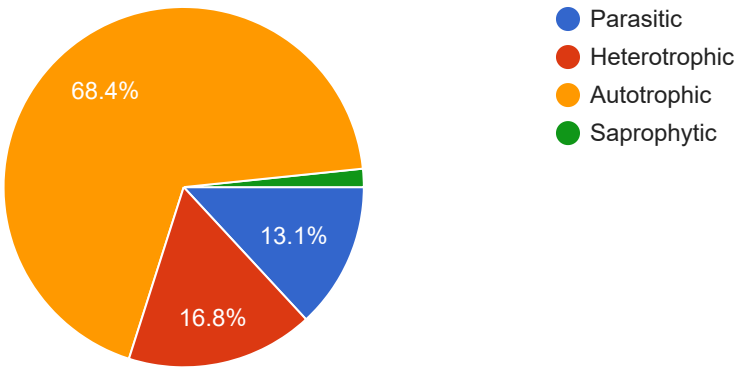
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26. Plants arein nature.

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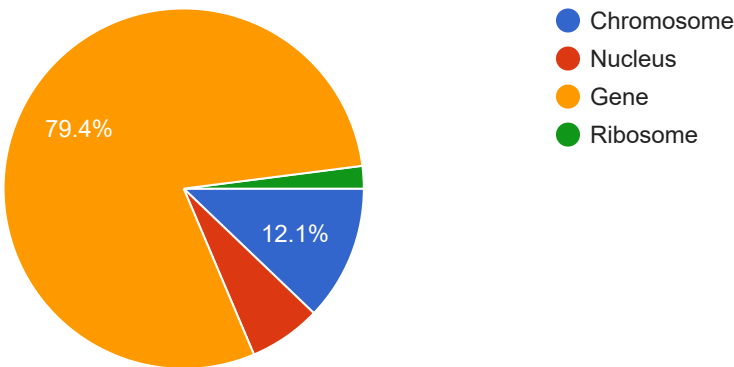
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27. The fundamental physical unit of heredity is called

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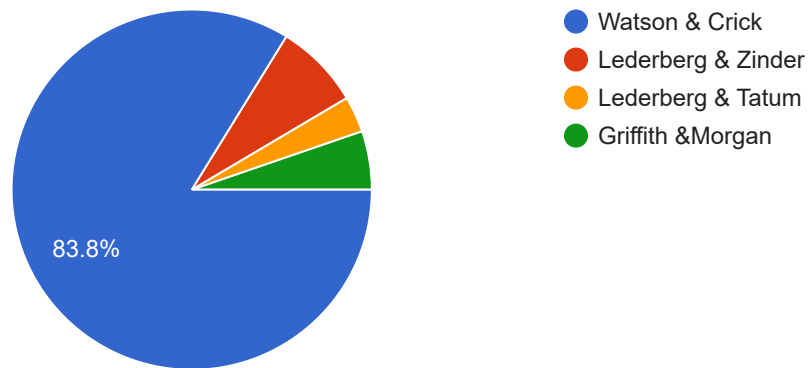
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28. The Double helix structure of DNA was discovered by.....



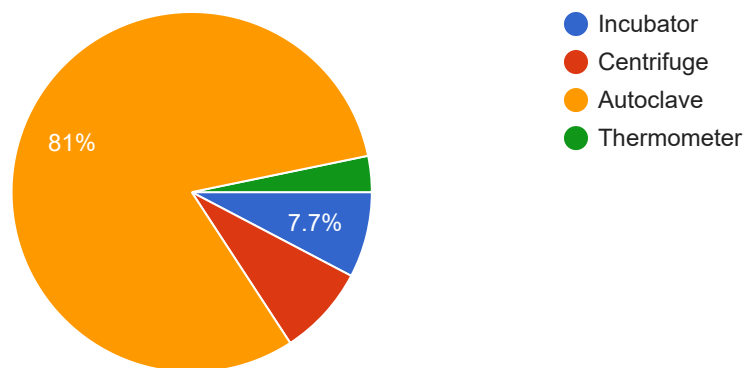
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29. Instrument used for sterilization is called.....



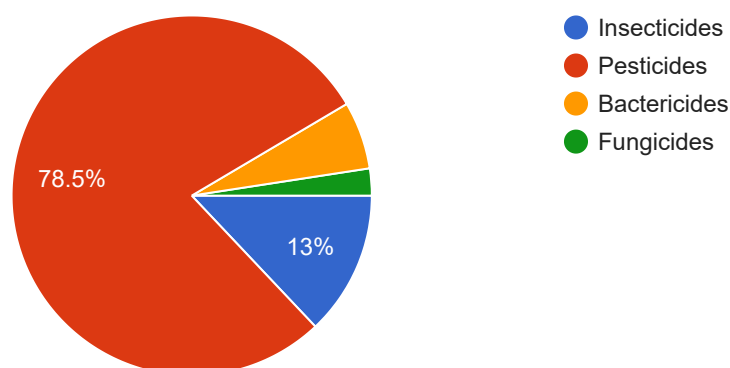
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30. The substances which kill or repel pests are called



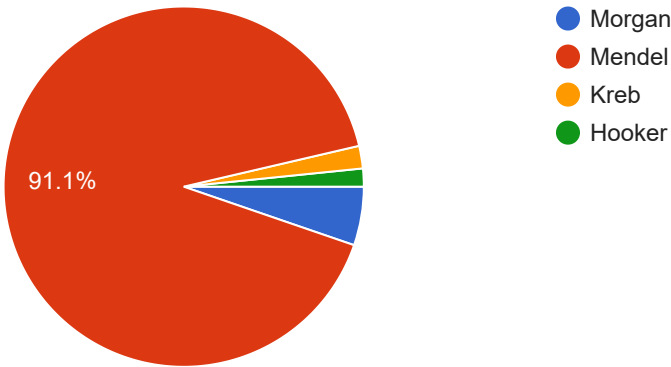
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31. Who is Father of ‘Genetics’?

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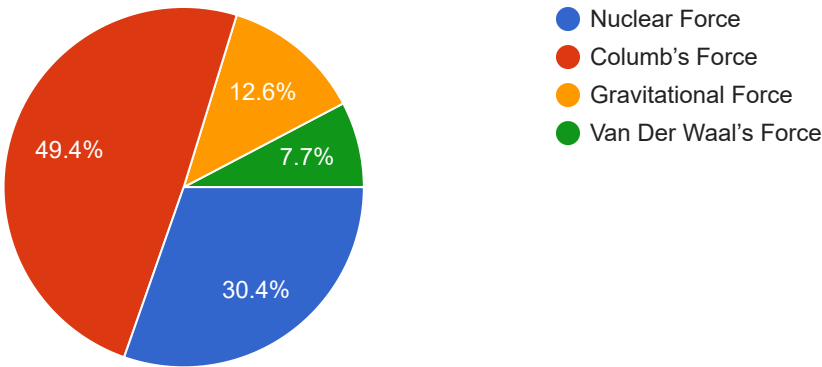
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32. Electrons in the atom are held to the nucleus by-----

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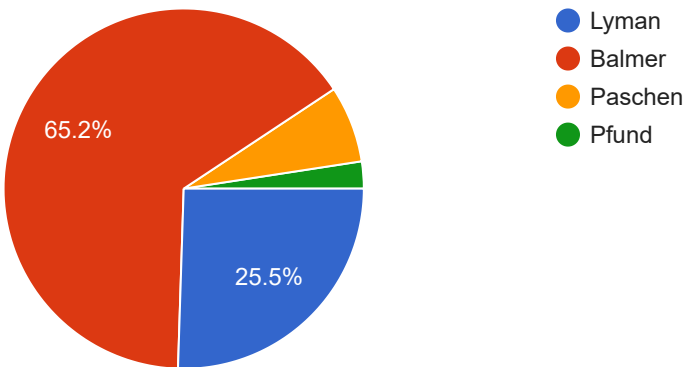
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33. Who discovered the first spectral series?

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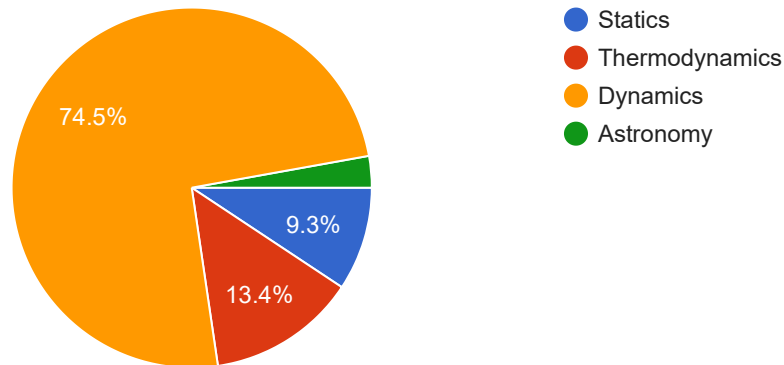
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34. Which is the branch of physics that deals with the motion of a body by considering the cause?



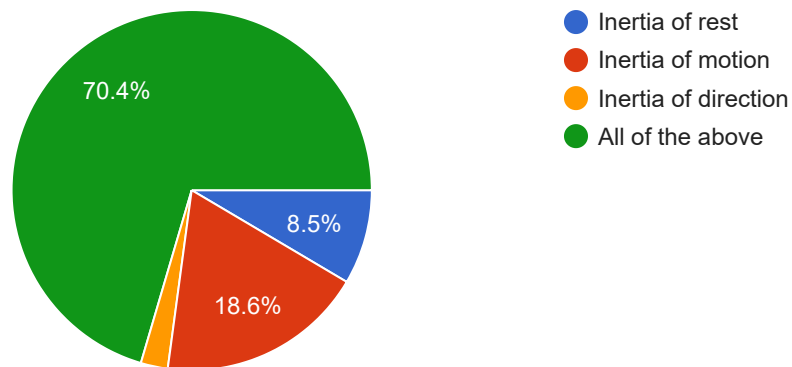
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35. Which is the type of inertia?



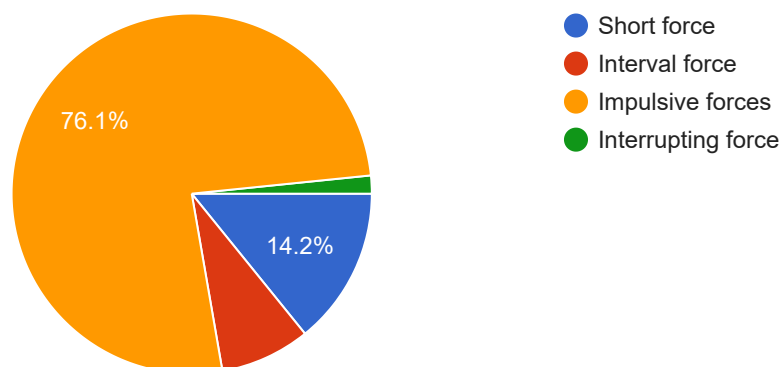
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36. Forces acting for a short duration are called-----.



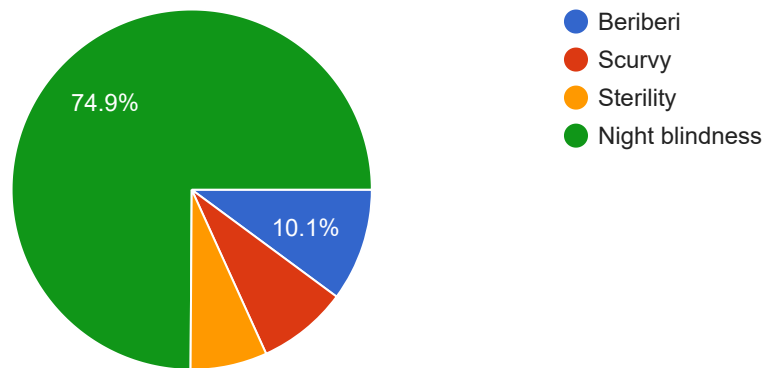
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37. Vitamin-A deficiency cause.....

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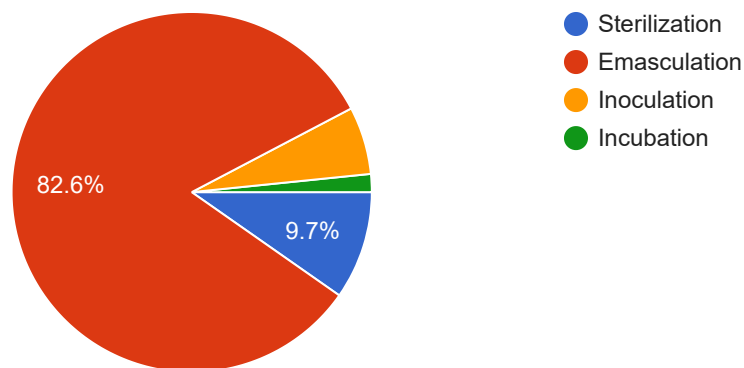
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38. Removal of anthers from flower is called.....

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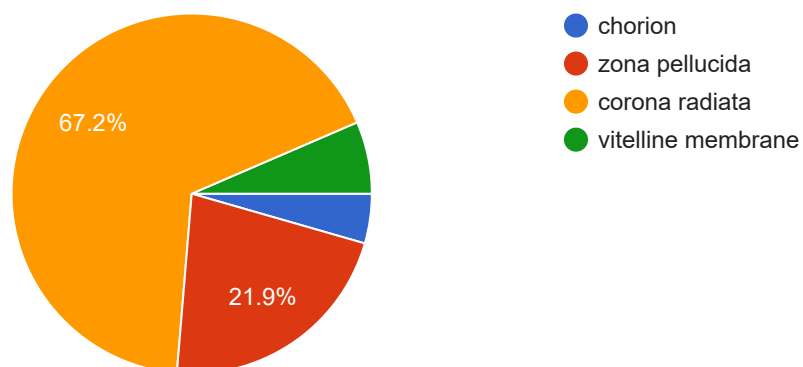
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39. Immediately after ovulation, the mammalian egg is covered by a membrane known as-----.

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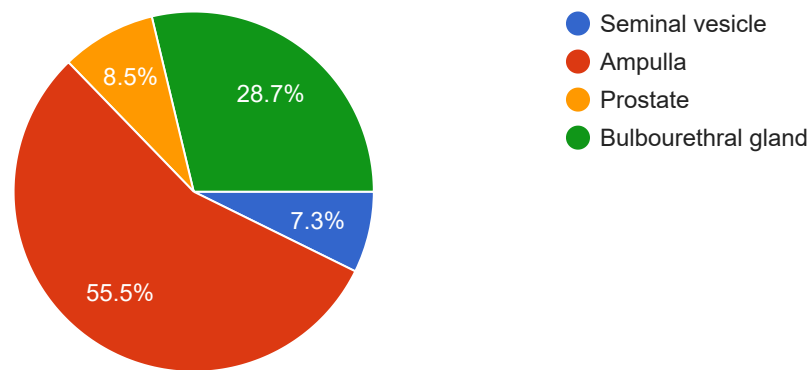
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40. Which one of the following is not a male accessory gland ?

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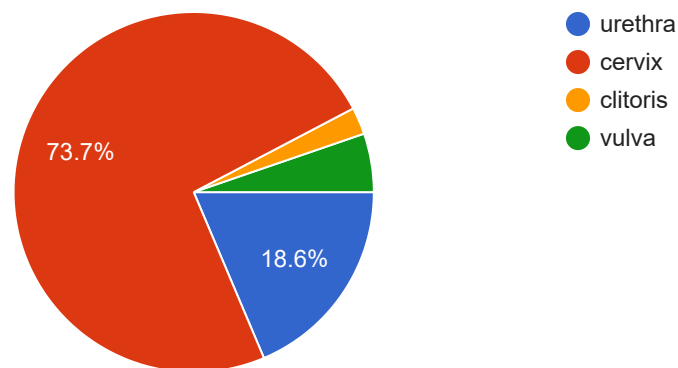
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41. Lower narrow end of uterus is called-----.

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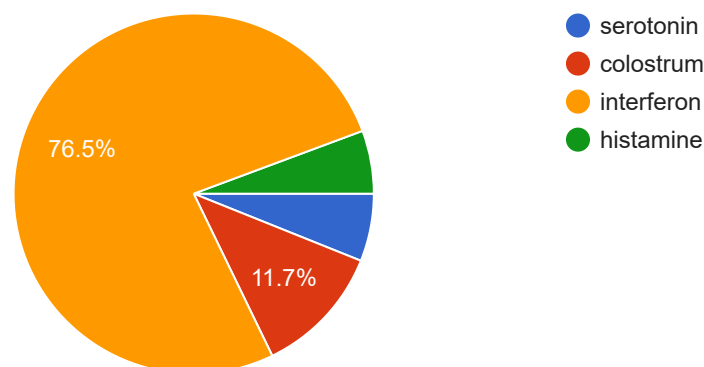
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42. The substance produced by a cell in viral infection that can protect other cells from further infection is-----.

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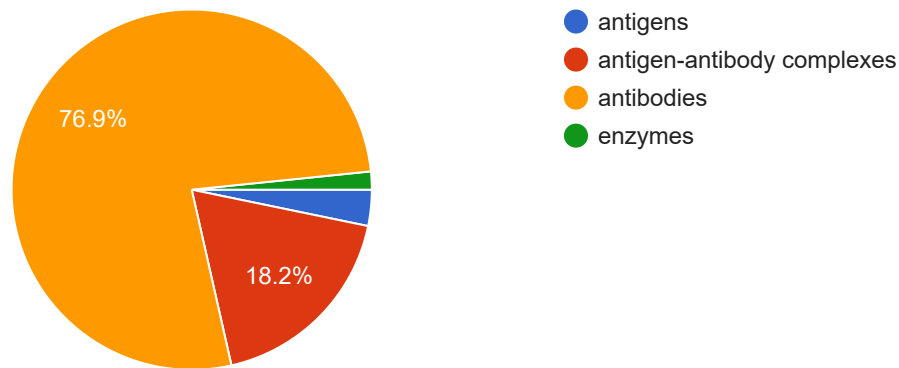
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43. Antivenom against snake poison contains-----.

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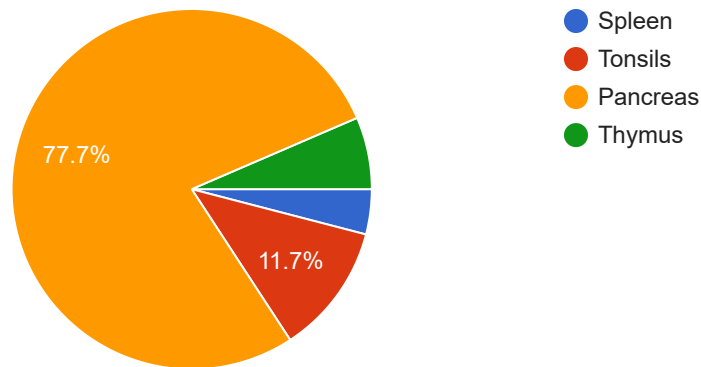
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44. Which of the following is not a lymphoid tissue ?

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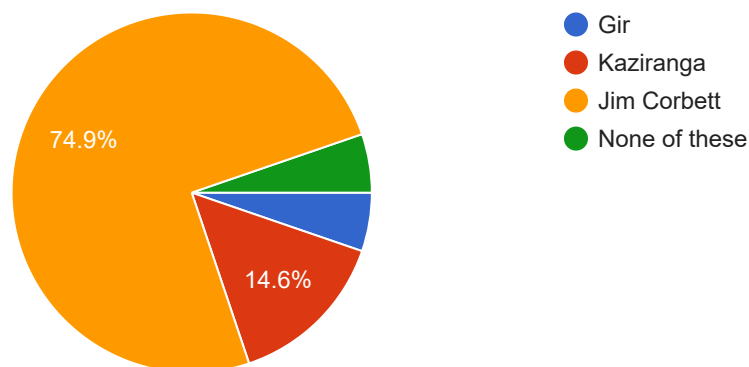
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45. First National park developed in India is-----.

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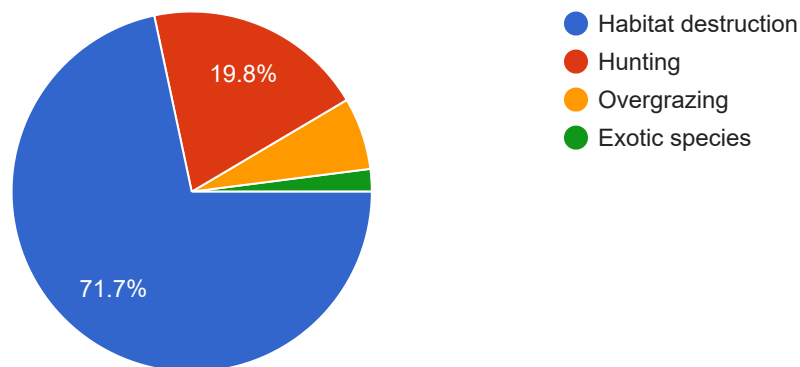
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46. The worst dangerous threat to wild life is by-----.



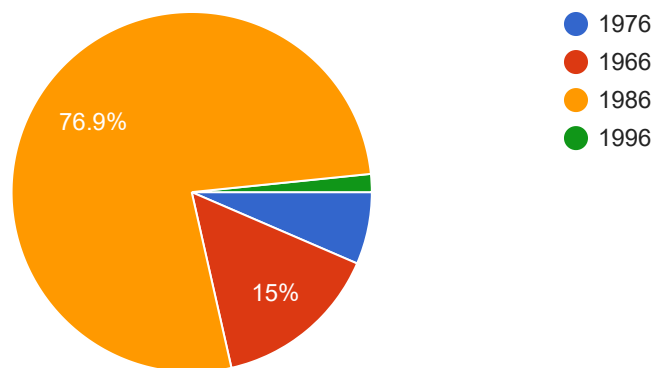
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47. The Environment Act of Government of India was passed in-----.



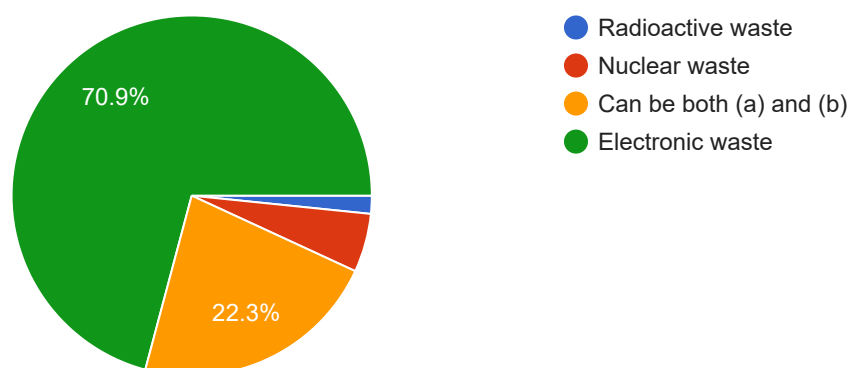
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48. E-wastes are referred to-----.



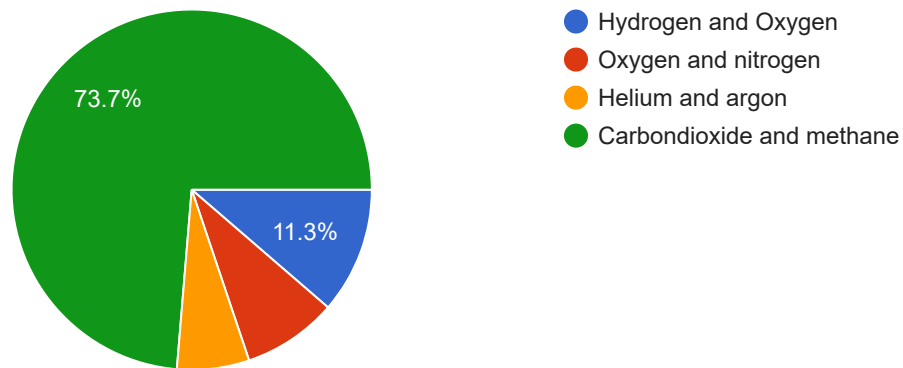
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49. The greenhouse gases are-----.

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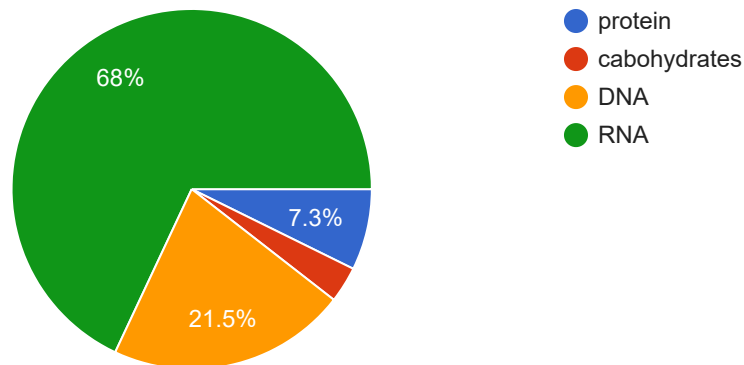
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50. The first genetic material could be-----.

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