



## १.१ ब्रह्माण्ड सम्बन्धी जानकारी

### एकक १ ब्रह्माण्ड सम्बन्धी जानकारी

#### ब्रह्माण्ड बारे विविध जानकारी :-

- ब्रह्माण्ड भन्नाले सूर्य, तारा, ग्रह, उपग्रह, प्लुटो ग्रह, नक्षत्र, तारामण्डल, तारापुञ्ज, निहारिका, ग्यासियस मुन्सा, जन्मरतिष्ठ आदिको समुहलाई भनिन्छ ।
- ब्रह्माण्ड सम्बन्धी अध्ययन गर्ने शास्त्र **सृष्टिशास्त्र** हो । यो ब्रह्माण्ड अन्तर, उत्पत्ति, विकास र रहस्य ले भरिपूर्ण रहेको छ ।
- भौतिक विज्ञानका पिता बम्बर्ट आइन्स्टाइन का अनुसार यो **ब्रह्माण्डको सुरुवात सुन्धबाट भएको थियो र यसको अन्त्य पनि सुन्धबाट नै हुनेछ ।**
- नक्षत्री, करोडौं ताराहरूको गतिचल समुहलाई तारापुञ्ज भनिन्छ । **तारापुञ्जहरू ३ प्रकारका हुन्छन् :** तारापुञ्ज, अण्डाकार र अनियमित हुन् । प्रमुख तारापुञ्जहरू : **milkyway, cigar, pinwheel, Andromeda, etc**
- विभिन्न आकार बनावट आकृताका रहेका ताराहरूको समुहलाई तारामण्डल भनिन्छ । **ब्रह्माण्डमा तारामण्डल गरी लगभग ८८ वटा तारामण्डलहरू रहेका छन् ।** प्रमुख तारामण्डलहरू : **ursa major, scorpius, capricornus, aries, etc**
- पृथ्वी रहेको सौर्यमण्डलको तारापुञ्जलाई **आकाशमण्डल तारापुञ्ज** भनिन्छ । आकाशमण्डल तारापुञ्जको एक बिन्दुबाट अर्को बिन्दुसम्म पुग्न एक **साध प्रकाश वर्ष** लाग्छ ।
- प्रकाशले १ सेकेण्डमा **३ लाख कि.मि** दुरी पार गर्दछ भने १ वर्षमा **१५ लाख कि.मि** दुरी पार गर्दछ । प्रकाशले १ वर्षमा पार गर्ने दुरीलाई एक प्रकाश वर्ष भनिन्छ ।

#### ब्रह्माण्डको उत्पत्ति सम्बन्धमा प्रतिपादित सिद्धान्तहरू :-

- स्टेजि स्टेट प्रग्रेसीभिज्मस थोरीन :** यस सिद्धान्त सन् १९२० मा ब्रिटिस ब्रह्माण्डविद् सर जिम्स केल्स ले प्रतिपादन गरेका हुन् ।
- महाविस्फोटक सिद्धान्त :** यस सिद्धान्त सन् १९४८ मा बेलाघाटी नागरिक फ्रीड होब्ले ले प्रतिपादन गरेका हुन् । यस सिद्धान्त बम्बर्ट आइन्स्टाइनको Equation of general relativity संग मिल्ने भएको हुनाले यस सिद्धान्तको रूपरेखा तयार गर्ने भनेर बम्बर्ट आइन्स्टाइन लाई भनिन्छ । यस सिद्धान्तका अनुसार ब्रह्माण्डको उत्पत्ति करिब १४ अर्ब वर्ष पहिले महाविस्फोटबाट भएको हो भन्ने विश्वास गरिन्छ ।
- जिनिक माइक्रोवेभ ब्याकग्राउन्ड रेडियेशन :** यस सिद्धान्त लाई सन् १९६४ मा अमेरिका का खगोलविद् आर्नो प्वास्निष र दोबर्ट पिनसन ले प्रतिपादन गरेका थिए । ब्रह्माण्डको उत्पत्ति सम्बन्धमा प्रतिपादित यि ३ सिद्धान्त मध्ये कहिले तथ्य नभिन सिद्धान्तको रूपमा यस सिद्धान्तलाई भनिन्छ ।

#### केहि महत्वपूर्ण जानकारी :

- Cremption 22 :** सन् २०११ डिसेम्बर मा नासाले पछा सगएको वर्षा ग्रह
- Pluto :** सन् १९३० मा यस ग्रहलाई नयाँ ग्रहको रूपमा स्थापित गरिएको थियो तर नयाँ दुरी तथ्य गरेर सौर्यमण्डलको परिचयमा गर्ने सावै विधायित रूपमा देख्न नसकिने भएको हुनाले यस ग्रहलाई सन् २००६ अगस्ट २६ र २७ गते अन्तराष्ट्रिय खगोल संघ को प्रथमा बसेको बैठकले प्लुटो लाई ग्रहको श्रेणीबाट हटाएर प्लुटो ग्रहमा राख्ने निर्णय गरेको थियो । योहि निर्णय अनुसार सन् २००६ सेप्टेम्बर १ मा यस ग्रह लाई ग्रहको श्रेणीबाट हटाइयो ।
- Astronomical unit :** अन्तरिक्ष विज्ञहरूको दुरी मापन गर्नका लागि प्रयोग गरिने एकाई लाई **Astronomical unit** भनिन्छ । **1Au** भन्नाले १४ करोड ९५ लाख ९७ हजार ८ सय ७० कि.मि हुन्छ । तर एउटा प्रयोजन छ जसमा सूर्य र पृथ्वी बिचको दुरीलाई **1Au** भनिन्छ तर वास्तवमा सूर्य र पृथ्वी बिचको दुरी १४ करोड ८८ लाख कि.मि मात्र रहेको छ ।
- Nano second :** अन्तरिक्षमा समय मापन गर्नका लागि यस एकाईको प्रयोग गरिन्छ । १० सेकेण्ड बराबर १ न्यानो सेकेण्ड हुन्छ । **नोट :** पछि १० सेकेण्ड भन्नाले पृथ्वीमा हुने सामान्य सेकेण्ड हो ।
- सूर्यको प्रकाश पृथ्वीसम्म आइपुग्न ८ मिनेट २० सेकेण्ड लाग्छ भने चन्द्रमा को प्रकाश पृथ्वीमा आइपुग्न १.३ मिनेट लाग्छ ।

#### सौर्यमण्डल बारे सामान्य जानकारी :-

- सूर्य र सूर्यको वरिपरि विस्थित गरिमा परिक्रमा गरिरहने ग्रह, उपग्रह, सिमुग्रह, जन्म, आसपुच्छे तारा, धुमकेतुहरूको समुहलाई नै सौर्यमण्डल भनिन्छ ।
- अन्तरिक्ष सम्बन्धी अध्ययन गर्ने शास्त्रलाई **Astronautics** भनिन्छ ।
- सामान्य अर्थमा सौर्यमण्डल, सूर्य र यसलाई परिक्रमा गर्ने पिण्डहरूको समुह हो ।
- सौर्य परिकारका सबैपिण्डहरू सूर्यको वरिपरि, जस एउटै दिशामा र एउटै समयमा घुमिरहने सूर्यलाई अण्डाकार आकारमा घेरिरहेका हुन्छन् ।
- सौर्य मण्डलमा १ सूर्य, ८ ग्रह, २१७ उपग्रह, ५ प्लुटो ग्रह, ३२०० धुमकेतु तथा १६०० भन्दा बढि सिमुग्रह, अनेकौं तारापिण्ड, आसपुच्छे तारा, रहेका छन् ।
- धुनीका तथा ग्यासियस नभिन अण्डाकारको सौर्यमण्डलको निर्माण भएको हुन्छ ।
- सौर्यमण्डलको कुल पिण्डको सूर्यले ९९.८ प्रतिशत भार ओगटेको छ सावै सबैपिण्डको कुल योग भन्दा ७४० गुणा बढि रहेको छ ।
- सौर्यमण्डलको सबैभन्दा ठुलो तारा सूर्य हो भने सानो तारा **OGLE-TR-122-B** हो ।
- सौर्यमण्डलको सबैभन्दा ठुलो ग्रह बृहस्पति हो भने सानो ग्रह बुध ग्रह हो ।
- सौर्यमण्डलको सबैभन्दा ठुलो उपग्रह गेलियमिड हो भने सानो उपग्रह मिक्सा हो ।
- सौर्यमण्डलमा सूर्यका वरिपरि अन्य ग्रह तथा उपग्रह हरूले परिक्रमा गर्छन भनेर पुष्टी गर्ने योन्सण्डका वैज्ञानिक निकोलस कोर्बिक्स हुन । उनले यो सूर्य केन्द्रित सिद्धान्तलाई हेलिओसेन्ट्रिक मोडल पनि नामाकरण गरेका छन् । यो सिद्धान्त सन् १५४३ मा प्रस्तुत भएको थियो ।

#### सूर्य :-

- हामी सौर्यमण्डलको सबैभन्दा ठुलो तारा नै सूर्य हो । सूर्य मध्यम आकार को तारा वर्गीकृत पर्दछ ।
- यो पृथ्वीबाट सबैभन्दा नजिकको तारा हो भने सूर्य बाट नजिकको तारा प्रोक्सीमा सेन्सजरी हो । सावै पृथ्वीबाट दोस्रो नजिकको तारा भने अन्ता सेन्सजरी हो ।
- सूर्य भन्दा ठुलो तारा बिलियेट थयो भने त्यसलाई सुपरनोभा भनिन्छ ।

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**Mahendra C H**

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web the half life of a specific radioactive isotope is constant it is unaffected by conditions and is independent of the initial amount of that isotope consider the following example suppose we have 100 0 g of tritium a radioactive isotope of hydrogen

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correct answer b 0 125 g q2 selenium 83 has a half life of 25 0 minutes

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web we utilize the equation that relate amount remaining initial mass and number of half lives  $n = \frac{\ln \left( \frac{N_0}{N} \right)}{\ln 2}$  125 g 5 what is the half life of an isotope that is 80 remained after 16 days solution remaining 80 100 therefore  $n = \frac{\ln \left( \frac{100}{80} \right)}{\ln 2}$  now using the half life equation in example 1 we have

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web section learning objectives by the end of this section you will be able to do the following explain radioactive half life and its role in radiometric dating calculate radioactive half life and solve problems associated with radiometric dating section key terms half life and the rate of radioactive decay unstable nuclei decay

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