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**EDUHEAL
FOUNDATION**

CLASS

12

LEVEL-1

Set-A1

EHF OLYMPIADS

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- 12 olympiads • Global reach

**NSSO
EHF**

**National Space Science
Olympiad (NSSO)**

Name : -----

Roll No : -----

Class : -----

School : -----



art and Sports clinic contest

**NATIONAL
BIOTECHNOLOGY
OLYMPIAD**



**NATIONAL
INTERACTIVE
SCIENCE
OLYMPIAD**



**INTERNATIONAL
ENGLISH
OLYMPIAD**



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**NATIONAL
INTERACTIVE
MATHS
OLYMPIAD**



**INTERNATIONAL
CYBER
OLYMPIAD**



**INTERNATIONAL
GENERAL KNOWLEDGE
OLYMPIAD**



NATIONAL IIT-NEET OLYMPIAD (NINO)



INTERNATIONAL IQ OLYMPIAD



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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Winner will get merit certificate, medals, laptop, scholarship and other prizes.

Level - 3 : Senior Class Toppers will qualify* for level-3-International level-where you will compete with students globally. Get selected for MIT-Harvard Maths Tournament (Online). Represent India & win laurels. Guidance by top scientists.



*For details prospectus/website for details

WEBSITE : WWW.EDUHEALFOUNDATION.ORG
E-MAIL : INFO@EDUHEALFOUNDATION.ORG

Instructions for the Candidate

1. You are allowed additional 10 minutes to fill the required details in the RESPONSE SHEET (OMR).
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 40 Questions each to be answered in 60 minutes. The Question paper for classes 7 to 12 contains 60 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. THE STUDENT CAN RETAIN THE QUESTION PAPER.

Space Science

- The stars will rise from their ashes. The collision of ancient wrecks causes new flames to burst forth, and the transformation of motion into heat creates nebulae and worlds. Universal death shall never reign. GIVE A TITLE TO THE ABOVE QUOTE ?

 - UNIFIED
 - UNIVERSE
 - UNION
 - None of these .
- When subduction in an ocean basin dominates over sea-floor spreading, the ocean closes and the continents on the two sides of the ocean collide. This is happening today in the Himalayas where the Indian subcontinent has collided with Eurasia. WHAT ARE WE REFERRING TO ?

 - Constraint equations
 - Continental collision
 - Continental climate
 - None of these .
- Nebula of visual brightness 8.4 (mag), apparent dimension 6×4 (arc min), right ascension 05h34.5m, dec $+22^{\circ}01'$, and a distance of 2 kpc. The supernova remnant resulting from the Type II supernova seen by Chinese, Japanese, Korean, Native American, and Arab astronomers in the year 1054. It was one of the first sources of radio waves and X-rays outside the solar system to be identified. It has a pulsar at the center and is expanding about 2000 km/sec. WHAT ARE WE REFERRING TO ?

 - Crab Nebula
 - Coulomb
 - Crab Pulsar
 - None of these .
- I am very sensible how difficult a thing it is to write well upon the science of Astronomy; by reason the subject is so comprehensive, and consists of so many parts, and is connected with so many other sciences, which it requires the perfect knowledge of; and besides, is a work of so much time, that a man had need have the life of Mathusalem, to go thro

 - WRONG
 - WRITING
 - WRAPPER
 - None of these .
- Estimates of the density of Comet Halley vary significantly, but the average is about 0.6 g.cm^{-3} (600 kg.m^{-3}) just over half the density of water. What does this imply about Comet Halley?

 - Halley is composed of about 50 PERCENT rock and 5 PERCENT frozen water and methane.
 - Halley is loosely packed ices with a small amount of rocky material.
 - Halley formed in the inner solar system and was ejected by Jupiter to the Kuiper belt.
 - Halley is really an S-type asteroid. .
- When the scientist leaves his laboratory and speculates about the universe as a whole, the resultant conclusions are apt to tell us more about the scientist than about the universe. GIVE A TITLE TO THE ABOVE QUOTE ?

 - UNION
 - UNIFIED
 - UNIVERSE
 - None of these .
- The Nebular Hypothesis suggests that the solar system grew from a flattened accretion disk around the primordial sun. Observations claiming to support this are listed below. Which of them is not true?

 - The planets have approximately co-planar orbits.
 - The physical composition of the planets is consistent with the chemistry of the disk's expected temperature gradient.
 - The planets all orbit in the same direction.
 - Oort Cloud comets typically have prograde orbits in the plane of the ecliptic..

8. The climatic type describing the climate character within a great land. Comparing to the marine climate, the main features of "C" are strong annual temperature variations, which cause colder winters and hotter summers, and strong diurnal variations. WHAT ARE WE REFERRING TO "C"?
- (1) Continental climate
 - (2) Continental collision
 - (3) Constraint equations
 - (4) None of these .
9. The rate of expansion of the universe is _____
- (1) Decelerating
 - (2) Accelerating
 - (3) Constant
 - (4) Zero.
10. We do not know what sets limits to the Great Chain of hierarchical structures, nor do we know what unifies it. We are clueless as to why atoms exist and why the Universe is structured the way it is. Of course, if the Universe were structured in any other way, we would not be here asking these pertinent questions; or so we are told. But I am a heretic and inclined to think the other way: without us this Universe would not be here. GIVE A TITLE TO THE ABOVE QUOTE ?
- (1) UNIFIED
 - (2) UNIVERSE
 - (3) UNION
 - (4) None of these .



END OF THE EXAM



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Class: 12

Subject: Space Science

No.	Chapter	QID	Answer	Details
Q.1	Astronomy Quotes	790418	2	
Q.2	Astrophysics	800768	2	
Q.3	Astrophysics	800857	1	
Q.4	Astronomy Quotes	790510	2	
Q.5	Comets	45816	2	
Q.6	Astronomy Quotes	790440	3	
Q.7	Cosmology	45799	4	
Q.8	Astrophysics	800767	1	
Q.9	Cosmology	776902	2	
Q.10	Astronomy Quotes	790427	2	