

Marathwada Shikshan Prasarak Mandal's

Vinayakrao Patil Mahavidyalaya, Vaijapur.

Staff Academy

Organised a session of Dr. C.V Sirsat Head Department of Zoology, on a topic "Origin of Life".

30th June, 2018

Report

On 30th June, Staff Academy organised a lecture of Dr. Chandrakant Sirsat Head, Department of Zoology on Origin of Life. In the beginning of the programme, Mr. A.R. Kasbe welcomed the speaker Dr. Chandrakant Sirsat and all the faculty members who were present for the programme.

In the beginning of his lecture Dr. Sirsat touched various religious theories behind the creation of Mankind. He also pointed out that perhaps the most fundamental and at the same time the least understood biological problem is the origin of life. It is central to many scientific and philosophical problems and to any consideration of extra-terrestrial life. Most

of the hypotheses of the origin of life will fall into one of four categories: According to some scientists, the origin of life is a result of a supernatural event—that is, one irretrievably beyond the descriptive powers of physics, chemistry, and other science. Life, particularly simple forms, spontaneously and readily arises from non-living matter in short periods of time, today as in the past.

In olden days, people believed that the universe and life on it was an act and result of God's creation. There was, however, no evidence to support these claims. The early scientists and Greeks believed that life on earth never began on earth itself. They believed that it came from somewhere else in outer space and they named this phenomenon 'panspermia'.

Then came the theory of spontaneous generation of life during the times of Aristotle who believed that life was born from decaying and rotting inorganic matter such as hay, straw, and other non-living material. This theory was rubbished by Louis Pasteur.

Next came the 'chemical evolution of life' theory by two scientists- Oparin from Russia and Haldane from England. They believed that the generation of life on earth was a slow chemical process which occurred from pre-existing non-living materials such as amino acids, proteins and nuclear material such as RNA. They postulated that these organic materials came together under conditions of high temperature, reducing atmosphere (without oxygen) and gases released from volcanos all of which were favourable to produce simple living forms. So they called this mixture of organic materials as 'organic soup'.


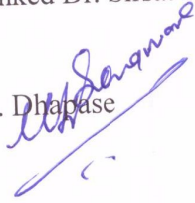
This theory of evolution was published in the book 'Philosophic Zoologique' by French scientist Jean Lamarck. His theory was based on the study of fossils of the organisms of the past with their present relatives including the homologous, analogous and vestigial organs. He believed that an organ or structure got modified in the current animal from its ancestor due to the change in the environment and the utility of that particular organ. His theory also said that the organs or structures modified themselves to suit the new needs of the organism. His theory contained three postulates:

Example: The giraffe originally did not have its long neck. But, the trees were very tall and it could not feed on the minimal number of short trees. So, as an adaptive measure to be able to eat leaves on the tall trees, the giraffe's neck started growing longer. This was a way of adaptive mechanism due to new needs.

Charles Darwin along with Wallace postulated this theory of evolution. Darwin believed that life thrives and multiplies by the principle of natural selection.

Dr. Sirsat touched various theories related to the origin of life but at the same time he asserted that life is too complicated to describe. There are so many things in the world which are beyond the human brain to understand. At the end of session Mr. A.R. Kasbe in his vote of thanks thanked Dr. Sirsat Sir for sharing his thoughts with the faculty members.

Dr. Dhapase



Principal
Vinayakrao Patil Mahavidyalaya
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Marathwada Shikshan Prasarak Mandal's
Vinayakrao Patil Mahavidyalaya, Vaijapur.

Staff Academy

Dr. V. Sirsat, Head Department of Zoology, delivering a lecture on the topic **Origin of Life**
(30th June, 2018)



M.S.P Mandal's

Vinayakrao Patil Mahavidyalaya, Vaijapur

Lectures Organised by Staff Academy

Resource Person : Dr. C.V. Sirsat (Department of Zoology)

Topic : Origin of Life

Time: 2:30 - 3:15

Date: 30/06/2018

Venue: Audio Visual 4

Sr. No.	Name of Teacher	Department	Signature
1.	Ms. Somwanshi B.V.	Biotech	
2.	Ms. Adhav V.P.	Com-	
3.	Ms. Ashwini S. Malave	BCS	
4.	Ms. P.S. Joshi	BCS	
5.	Ms. M.V. Raut	Bsc comp (opt)	
6.	Dr. P.D. Pawar	chemistry	
7.	Dr. M.B. Suruse	Elo	
8.	Sunil Dahale	Hindi	
9.	Doke V.S.	pol. sci	
10.	Kasbe A.R.	political sci.	
11.	Magare A.B.	Marathi	
12.	Dr. S.S. Kumbhar	Hindi	
13.	Dr. S.K. Rathod	Sociology	
14.	Dr. CV Sirsat	Zoology	
15.	Godse A.D.	Maths	
16.	A.B. Thore	B.C.C.	
17.	Dukare A.R.	BCS	
18.	Burke R.K.	Chem	
19.	G.N. Pethare	BCC	
20.	A.B. Sarda	Library	
21.	A.R. Kasbe	Political sci	
22.	Sirsat CV	Zoology	
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Dr. B.R. Dhapse (Coordinator)
Staff Academy

PRINCIPAL
Vinayakrao Patil Mahavidyalaya
Vaijapur, Dist. Aurangabad.