



मैट्स विश्वविद्यालय मुक्त एवं दूरवर्ती शिक्षा कार्यक्रम आरंग, रायपुर (छ0ग0)

MATS UNIVERSITY OPEN & DISTANCE LEARNING CENTRE ARANG, RAIPUR (C.G.)

**सत्रीय कार्य / Assignment Work – 2012-13**

***M.Sc (Botany)***

**Max Marks – 30**

**Min Marks-12**

**निर्देश :** सत्रीय कार्य के प्रत्येक विषय में कुल 30 अंक हैं। सभी प्रश्नों के अंक समान होंगे। सभी प्रश्न हल कीजिए। (Assignment Work of each paper carries 30 Marks. All questions carry equal marks. Attempt all questions.)

***Paper-I (Cell and Molecular Biology of Plants)***

1. Explain the Schematic structure of plant Cell.
2. Write short Notes on -  
(i) Plastid (ii) C3 Cycle
3. Describe the Watson and Crick model of DNA.

***Paper-II (Cytology Genetics and Cytogenetic)***

1. What is the difference between eukaryotic and prokaryotic cell.
2. Write short note on :  
(i) Ribosomes (ii) Mitochondria
3. Write short notes on:  
(i) Gene (ii) Allelomorphism

***Paper-III (Biology and Diversity of Lower Plants Cryptogames)***

1. Write the Habitat, properties and reproduction in order Ectocarpales.
2. Write the general characteristics of zygomycetes and Basidiomycetes.
3. Write the vegetative reproduction in Marchantiales.

***Paper-IV (Taxonomy and Diversity of Seed Plants)***

1. Write the History and Importance of Botanical Nomenclature system.
2. Write short note on:  
(i) Types of Root (ii) Types of Leaf
3. Explain the Binomial & Hooker system of Botanical classification.

***Paper-V (Plants Physiology and Metabolism)***

1. Explain the nature of Transpiration.
2. Write short note on :  
Hydroponics (ii) Glycolysis
3. Explain the mechanism of light phase of photosynthesis

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