| LESSON PLAN 2019 october to 25 January 2022 |  |  |  |  |  |  |
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| SUBJECT; BOTANY |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Dr Romesh Singh Bhaal |  |  |  |
| **WEEK** | **MONTH** |  | **Bsc-1st sem** | **B.Sc-3rd sem** | **B.Sc-5th sem** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | october |  | TOPIC | TOPIC | TOPIC |  |  |  |  |  |
| 1 | 1 |  | INTRO TO SYLLABUS | INTRO TO SYLLABUS | INTRO TO SYLLABUS |  |  |  |  |
|  | 2 | **holiday** |  |  |  |  |  |  |  |  |
|  | 3 | **Sunday** | MICROBES INTRO | G characters and diversity of Gsperms  | Plant-water Relations:  |  |  |  |  |
|  | 4 |  | BACTERIA | G characters and diversity of Gsperms  | Plant-water Relations:  |  |  |  |  |
|  | 5 |  | BACTERIA | Pilger and Melchior's  | Plant-water Relations:  |  |  |  |  |
|  | 6 |  | BACTERIA | Pilger and Melchior's  | Plant-water Relations:  |  |  |  |  |
| 2 | 7 | **holiday** |  |  |  |  |  |  |  |  |
|  | 8 |  | BACTERIA | Geological Time Table | Plant-water Relations:  |  |  |  |  |
|  | 9 |  | BACTERIA | Geological Time Table | Plant-water Relations:  |  |  |  |  |
|  | 10 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 11 |  | BACTERIA | Geological Time Table | Plant-water Relations:  |  |  |  |  |
|  | 12 |  | BACTERIA | Evolution of Seed Habit. | Mineral Nutrition:  |  |  |  |  |
|  | 13 |  | BACTERIA | Evolution of Seed Habit. | Mineral Nutrition:  |  |  |  |  |
| 3 | 14 |  | BACTERIA | Palaeobotany- | Mineral Nutrition:  |  |  |  |  |
|  | 15 | **holiday** |  |  |  |  |  |  |  |  |
|  | 16 |  | ECONOMIC IMP BACTERIA | Palaeobotany- | Mineral Nutrition:  |  |  |  |  |
|  | 17 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 18 |  | ECONOMIC IMP BACTERIA | Palaeobotany- | Mineral Nutrition:  |  |  |  |  |
|  | 19 |  | ECONOMIC IMP BACTERIA | Palaeobotany- | Transport of Organic Substances:  |  |  |
|  | 20 | **holiday** |  |  |  |  |  |  |  |  |
| 4 | 21 |  | ECONOMIC IMP BACTERIA | Palaeobotany- | Transport of Organic Substances:  |  |  |
|  | 22 |  | ECONOMIC IMP BACTERIA | Palaeobotany- | Transport of Organic Substances:  |  |  |
|  | 23 |  | ECONOMIC IMP BACTERIA | Palaeobotany- | Transport of Organic Substances:  |  |  |
|  | 24 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 25 |  | CYANO BACTERIA | Reconstruction of the following fossil plants | Photosynthesis:  |  |  |  |  |  |
|  | 26 |  | CYANO BACTERIA | Reconstruction of the following fossil plants | Photosynthesis:  |  |  |  |  |  |
|  | 27 |  | CYANO BACTERIA | *Lyginopteris* | Photosynthesis:  |  |  |  |  |  |
| 5 | 28 |  | INTRO TO ALGAE | *Williamsonia* | Photosynthesis:  |  |  |  |  |  |
|  | 29 |  | INTRO TO ALGAE | *Cycadeoidea*  | Photosynthesis:  |  |  |  |  |  |
|  | 30 |  | INTRO TO ALGAE | Morphology and anatomy  | Photosynthesis:  |  |  |  |  |  |
|  | 31 | **Sunday** |  |  |  |  |  |  |  |  |
|  | November |  |  |  |  |  |  |  |  |  |
|  | 1 | **holiday** |  |  |  |  |  |  |  |  |
|  | 2 |  | INTRO TO ALGAE | Morphology and anatomy  | Photosynthesis:  |  |  |  |  |  |
|  | 3 |  | INTRO TO ALGAE | Morphology and anatomy  | Photosynthesis:  |  |  |  |  |  |
| 6 | 4 | **holiday** |  |  |  |  |  |  |  |  |
|  | 5 | **holiday** | CLASSIFICATION | Morphology and anatomy  | Photosynthesis:  |  |  |  |  |  |
|  | 6 |  | CLASSIFICATION | *Cycas* | Photosynthesis:  |  |  |  |  |  |
|  | 7 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 8 |  | CLASSIFICATION | *Cycas* | Photosynthesis:  |  |  |  |  |  |
|  | 9 |  | VOLVOX | *Cycas* | Photosynthesis:  |  |  |  |  |  |
|  | 10 |  | VOLVOX | *Cycas* | Photosynthesis:  |  |  |  |  |  |
| 7 | 11 |  | VOLVOX | *Cycas* | Photosynthesis:  |  |  |  |  |  |
|  | 12 |  | VOLVOX | *Cycas* | Photosynthesis:  |  |  |  |  |  |
|  | 13 |  | OEDOGONIUM | *Pinus* | Respiration |  |  |  |  |  |
|  | 14 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 15 |  | OEDOGONIUM | *Pinus* | Respiration |  |  |  |  |  |
|  | 16 |  | OEDOGONIUM | *Pinus* | Respiration |  |  |  |  |  |
|  | 17 |  | OEDOGONIUM | *Pinus* | Respiration |  |  |  |  |  |
| 8 | 18 |  | *Vaucheria*  | *Pinus* | Respiration |  |  |  |  |  |
|  | 19 | **holiday** |  |  |  |  |  |  |  |  |
|  | 20 |  | *Vaucheria*  | *Ephedra* | Respiration |  |  |  |  |  |
|  | 21 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 22 |  | *Vaucheria*  | *Ephedra* | Respiration |  |  |  |  |  |
|  | 23 |  | *Ectocrpus*  | *Ephedra* | Respiration |  |  |  |  |  |
|  | 24 |  | *Ectocrpus*  | *Ephedra* | Respiration |  |  |  |  |  |
| 9 | 25 |  | *Ectocrpus*  | General characters of Angiosperms  | Respiration |  |  |  |  |  |
|  | 26 |  | *Ectocrpus*  | General characters of Angiosperms  | Respiration |  |  |  |  |  |
|  | 27 |  | *Polysiphonia*  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 28 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 29 |  | *Polysiphonia*  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 30 |  | *Polysiphonia*  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | **December** |  |  |  |  |  |  |  |  |  |
| 10 | 1 |  | *Polysiphonia*  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 2 |  | *Polysiphonia*  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 3 |  | Viruses:  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 4 |  | Viruses:  | Diversity in plant forms-annuals, ETC | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 5 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 6 |  | Viruses:  | Tissues-meristematic and permanent  | Seed dormancy; plant movements;  |  |  |  |  |  |
|  | 7 |  | Fungi:  | Tissues-meristematic and permanent  | Seed dormancy; plant movements;  |  |  |  |  |  |
| 11 | 8 |  | Fungi:  | Tissues-meristematic and permanent  | Introduction to Ecology:  |  |  |  |  |  |
|  | 9 |  | Fungi:  | Tissues-meristematic and permanent  | Introduction to Ecology:  |  |  |  |  |  |
|  | 10 |  | Fungi:  | Tissues-meristematic and permanent  | Introduction to Ecology:  |  |  |  |  |  |
|  | 11 |  | Fungi:  | The Shoot system-shoot apical meristem  | Environment |  |  |  |  |  |
|  | 12 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 13 |  | Fungi:  | The Shoot system-shoot apical meristem  | Environment |  |  |  |  |  |
|  | 14 |  | Fungi:  | The Shoot system-shoot apical meristem  | Environment |  |  |  |  |  |
| 12 | 15 |  | Fungi:  | The Shoot system-shoot apical meristem  | Environment |  |  |  |  |  |
|  | 16 |  | Fungi:  | The Shoot system-shoot apical meristem  | Environment |  |  |  |  |  |
|  | 17 |  | Fungi:  | The Shoot system-shoot apical meristem  | Environment |  |  |  |  |  |
|  | 18 |  | Fungi:  | Secondary growth in dicot stem | Environment |  |  |  |  |  |
|  | 19 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 20 |  | Fungi:  | Secondary growth in dicot stem | Environment |  |  |  |  |  |
|  | 21 |  | Fungi:  | Secondary growth in dicot stem | Environment |  |  |  |  |  |
| 13 | 22 |  | Fungi:  | Secondary growth in dicot stem | Environment |  |  |  |  |  |
|  | 23 |  | Fungi:  | Secondary growth in dicot stem | Environment |  |  |  |  |  |
|  | 24 |  | Fungi:  | Secondary growth in dicot stem | Population Ecology |  |  |  |  |
|  | 25 | **holiday** |  |  |  |  |  |  |  |  |
|  | 26 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 27 |  | Fungi:  | Secondary growth in dicot stem | Population Ecology |  |  |  |  |  |
|  | 28 |  | Fungi:  | Secondary growth in dicot stem | Population Ecology |  |  |  |  |  |
| 14 | 29 |  | The Cell Envelopes:  | Leaf-Types of leaves  | Community Ecology:  |  |  |  |  |  |
|  | 30 |  | The Cell Envelopes:  | Leaf-Types of leaves  | Community Ecology:  |  |  |  |  |  |
|  | 31 |  | The Cell Envelopes:  | Epidermis-uniseriate and multiseriate,  | Community Ecology:  |  |  |  |  |  |
|  | **January** |  |  |  |  |  |  |  |  |  |
|  | 1 |  | The Cell Envelopes:  | Anatomy of typical Monocot and Dicot leaf and  | Ecosystem: Structure  |  |  |  |  |  |
|  | 2 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 3 |  | The Cell Envelopes:  | Anatomy of typical Monocot and Dicot leaf and  | Ecosystem: Structure  |  |  |  |  |
|  | 4 |  | The Cell Envelopes:  | Root system-  | Ecosystem: Structure  |  |  |  |  |
|  | 5 |  | The Cell Envelopes:  | Root system-  | Ecosystem: Structure  |  |  |  |  |
| 15 | 6 |  | The Cell Envelopes:  | Root system-  | Ecosystem: Structure  |  |  |  |  |
|  | 7 |  | The Cell Envelopes:  | Root system-  | Ecosystem: Structure  |  |  |  |  |
|  | 8 |  | The Cell Envelopes:  | Root system-  | Ecosystem: Structure  |  |  |  |  |
|  | 9 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 10 |  | Cell Division | Root system-  | Ecosystem: Structure  |  |  |  |  |
|  | 11 |  | Cell Division | Root system-  | Ecosystem: Structure  |  |  |  |  |
|  | 12 |  | Chromosome:  | Root system-  | Ecosystem: Structure  |  |  |  |  |
| 16 | 13 |  | Chromosome:  | Secondary growth in dicot root | Ecosystem: Structure  |  |  |  |  |  |
|  | 14 |  | Chromosome:  | Secondary growth in dicot root | Ecosystem: Structure  |  |  |  |  |  |
|  | 15 |  | Chromosome:  | Secondary growth in dicot root | Population Ecology:  |  |  |  |  |  |
|  | 16 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 17 |  | Chromosome:  | Secondary growth in dicot root | Population Ecology:  |  |  |  |  |  |
|  | 18 |  | Chromosome:  | Secondary growth in dicot root | Population Ecology:  |  |  |  |  |  |
|  | 19 |  | Chromosome:  | Secondary growth in dicot root | Environmental Pollution:  |  |  |  |  |  |
| 17 | 20 |  | Chromosome:  | Secondary growth in dicot root | Environmental Pollution:  |  |  |  |  |  |
|  | 21 |  | Chromosome:  | Secondary growth in dicot root | Environmental Pollution:  |  |  |  |  |  |
|  | 22 |  | Chromosome:  | Structural modifications in roots- storage  | Environmental Pollution:  |  |  |  |  |  |
|  | 23 | **Sunday** |  |  |  |  |  |  |  |  |
|  | 24 |  | Chromosome:  | Structural modifications in roots- storage  | Global Change |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |  |  |  |
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