PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE B.Sc. Summer 2017-18 Examination

| Semester: I Subject Code: 11100105 Subject Name: Foundations of Pielegy, J | | Date: 30/05/2018 Time: 10.30 am to 1.00 pm Total Marks: 60 |
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| | | |
| Instru | | |
| | juestions are compulsory. | |
| | res to the right indicate full marks. | |
| | e suitable assumptions wherever necessary. | |
| 4. Start | new question on new page. | |
| 0.1. A |) Essay type/ Brief note (4x2) (Each of 04 marks) | (08) |
| L | What is origin of life? Explain theory of spontaneous evolution with example | |
| O.1. B |) Answer the following questions (Any two) | |
| ~ | (a) Short note: Nucleus | (04) |
| | (b) Explain mechanism of evolution- Darwin's theory. | (04) |
| | (c) Explain transport mechanisms involved in the biological membrane. | (04) |
| Q.2. A | Answer the following questions. | |
| | (a) Compare between plant cell and animal cell. | (04) |
| | (b Enlist various organelles of cell. | (04) |
| Q.2. B) |) Answer the following questions (Any two) | |
| | (a) Short note/ Multiple choice questions. (Each of 01 marks) | (03) |
| | 1. What is lysosome? | |
| | 2. What is ribosome? | |
| | 3. What is Cell wall made up of? | |
| | (b) Short note: Golgi Apparatus | (03) |
| | (c) Describe cell wall | (03) |
| Q.3. A |) Essay type/ Brief note (4x2) (Each of 04 marks) | (08) |
| | Explain evolution of humans | |
| Q.3. B |) Answer the following questions (Any two) | |
| | (a) Short note: Types of Roots | (04) |
| | (b) Short note: Chloroplast | (04) |
| | (c) Short note: Mitochondria | (04) |
| Q.4. A |) Answer the following questions. | |
| | (a) Short note: Types of blood cells. | (04) |
| | (b) Explain basics of genetics | (04) |
| Q.4. B | Answer the following questions (Any two) | |
| | (a) Explain modifications of roots. | (03) |
| | (b) Explain morphology of cockroach. | (03) |
| | (c) Characteristics of Prokaryotic cell. | (03) |