

प्रश्न-पत्र बोर्ड द्वारा निर्धारित पुस्तकों से ही सैट किया जाएगा। कृपया अध्यापकगण बोर्ड द्वारा निर्धारित पुस्तकें ही पढ़ाएँ।

## **DESIGN**

### **QUESTION PAPER**

**Subject** : **Biotechnology**  
**Paper** : **1<sup>st</sup> Semester**      **Annual or Supplementary**  
**Class** : **10+2**      **Year 2014-15**  
**Time** : **2½ Hrs.**  
**Marks** : **60**

#### **1. Weightage to Objectives:**

Objective	K	U	A	S	Total
Percentage of marks	40	30	20	10	100%
Marks	24	18	12	06	60

#### **2. Weightage to Form of Questions:**

Forms of Questions	E	SA	VSA	O	Total
No. of Questions	03	05	09	12	29
Marks Allotted	15	15	18	12	60
Estimated Time	50	45	30	20	145

#### **3. Weightage to Content:**

	<u>Units/Sub-Units</u>	<u>Marks</u>
1.	Unit-V Chapter-I (Protein Structure and Engineering)	25
2.	Unit-VI Chapter-I (Microbial Culture and Applications)	17
3.	Unit-VI Chapter-II (Plant Cell Culture and Applications)	18

**Total**      60

4. Scheme of Sections : -X X X X-
5. Scheme of Options : Internal Choice in long answer question i.e. essay type.
6. Difficulty level : Difficult : 10 % marks  
Average : 50 % marks  
Easy : 40 % marks

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Abbreviations: K (Knowledge), U (Understanding), A (Application), S (Skill), E (Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), O (Objective Type)