

**SARDAR BHAGWAN SINGH UNIVERSITY, BALAWALA**  
**SCHOOL OF PHARMACEUTICAL SCIENCES & TECHNOLOGY**

B. Pharm. IV Semester

**Subject:** Pharmacognosy and Phytochemistry-I

**Subject code:** (BP-405T)

**Assignment no: 04**

**Q. Multiple Choice Questions:-**

- 1. The unorganized mass of cells which proliferates from the cells of an explant is termed.**

a. Callus	b. Protoplast
c. Culture	d. None of the above

- 2. The cultivation of callus on an agar medium under aseptic conditions is called as-**

a. Protoplast culture	b. Callus culture
c. Hairy root culture	d. Suspension culture

- 3. Formation of somatic embryos or embryogenic tissue directly from the explant without the formation of an intermediate callus phase is-**

a. Somatic embryogenic response	b. Callus formation
c. Direct somatic embryogenesis	d. Premature germination

- 4. The formation of variant clones from culture tissue is called is-**

a. Clonus	b. Clonography
c. Somaclonal variation	d. Transduction

- 5. The most exclusively used gibberellin is-**

a. GA <sub>3</sub>	b. 2,4,5-T
c. TDZ	d. None of the above

- 6. Cotton and flax are-**

a. Animal fibres	b. Plant fibres
c. Mineral fibres	d. Synthetic fibres

- 7. Hemp and jute are-**

a. Animal fibres	b. Plant fibres
c. Mineral fibres	d. Synthetic fibres

- 8. Cotton is soluble in-**

a. Hydrochloric acid	b. KOH
c. Cold 80% sulphuric acid	d. Acetone

**9. Gunny is-**

a. Gentian	b. Jute
c. Cannabis	d. Opium

**10. Which is not the common use of cotton?**

a. Filtering medium	b. Surgical dressing
c. Insulating material	d. Astringent

**Q. Short answer type questions:-**

1. Define Fibres and classify them.
2. Write a note cotton and hemp.
3. Write a note on Hallucinogen.
4. Write a note on Protoplast culture.
5. Applications of Micropropagation.

**Q. Long answer type questions:-**

1. Discuss about Natural Allergens.
2. Discuss the role of plant tissue culture in pharmacognosy in detail with examples.