



BS BIOLOGICAL SCIENCES

Sir Mughal · Sir Jawad

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<https://chat.whatsapp.com/DWXwJpXahbxFVQuty8JXN>

BIO505T-Essentials of Genetics (Theory)

IMPORTANT TOPICS FOR MIDTERM

By

SHAHZAIB SHABBIR

(TEAM MEMBER BS BIOLOGICAL SCIENCES GROUP)

📞 **0330-8553704**

📞 **IMPORTANT LESSONS FOR MIDTERM:**

- *1. Mendel's law of dominance*
- *2. Monohybrid cross and Dihybrid cross*

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- *3.Law of Segregation*
- *4.Mendel s' Law of Independent Assortment*
- *5.Mendelian genetics*
- *6.Non-Mendelian genetics*
- *7.Genotype and phenotype.*
- *8.Blending hypothesis (important for objective section)*
- *7.Particulate hypothesis (important for objective section)*
- *9.Particulate inheritance (important for objective section)*
- *10.Mendel and particulate inheritance*
- *11.Heredity*
- *11.Acquired Variation*
- *12.Discontinuous Variation*
- *13.Continuous Variation*
- *14.Complete & Incomplete dominance*
- *15.Co-dominance*
- *16.Polygenic traits*
- *17.Epistasis*
- *18.Pleiotropy*

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- **19. Chromosome Structure**
- **20. Variation in number of chromosomes (very important for objective section)**
- **21. PROKARYOTES and EUKARYOTES (important for objective section)**
- **22. Euchromatin and Heterochromatin (important for objective section)**
- **23. Staining and banding chromosomes**
- **24. Nucleosomes**
- **25. Nucleosomes- Five histones (important for objective section)**
- **26. chromatin**
- **27. IDIOTYPE**
- **28. NUCLEOTIDE and its types (important for objective section)**
- **29. A, B, Z DNA (important for objective section)**
- **30. X system in grasshopper (important for objective section)**
- **31. Chargaff rule of base ratios (important for objective section)**
- **32. Giant chromosome (important for objective section)**
- **33. Lampbrush chromosome (important for objective section)**
- **34. Diploid cells and haploid cells (important for objective section)**

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- **35.Mitosis and Meiosis phases (very important for both subjective and objective sections)**
- **36.Experiment of T. H. Morgan (very important for objective section)**
- **37.Effect of linkage on inheritance (very important for objective section)**
- **38.Sex determination and chromosomes role (very important for objective section)**
- **39.Multiple alleles (very important for objective section)**
- **40.Multiple alleles- rabbit (very important for objective section)**
- **41.Chiasmata formation**
- **42.Physical mapping**
- **43.2 Polygenic inheritance (very important for objective section)**
- **44.Common Epigenetics regulated phenomena (very important for objective section)**
- **45.Types of Penetrance (very important for both subjective and objective sections)**
- **46.Karyotyping- Nomenclature (very important for objective section)**
- **47.Turner syndrome**
- **48.Structural Abnormalities (very important for objective section)**

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- ***49. Translocations***
- ***50. Non-disjunction***
- ***51. Trisomy***
- ***52. Polyploidy and its types***
- ***53. Allopolyploidy***
- ***54. Aneuploidy and Euploidy***
- ***55. Ring chromosome and Philadelphia chromosome***
- ***56. Types of mutation***
- ***57. Somatic and Germline mutation***
- ***58. Mutation - Forward, Reverse and Neutral***

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Good Luck 😊



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Join Us!

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GROUP FOR STUDENTS

- ☒ BS (Hons) Zoology
- ☒ BS (Hons) Biotechnology
- ☒ BS (Hons) Bioinformatics

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