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**DEDICATION**

(Text in sentence case, font size 12, TNR)

Example:

I dedicate this humble effort and the fruit of my hard work to My parents, teachers, and fellows Who burnt themselves to make me candle.

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**ACKNOWLEDGEMENTS**

(Text in sentence case, font size 12, TNR and justify)

Example:

**Allah Almighty**, the eternal of this universe, the most Beneficent, Merciful, Gracious and Compassionate whose bounteous Blessing gave me the potential, thoughts, talented teachers, helping friends and opportunity to make this humble effort and enabled me to pursue and perceive higher ideas of life.

All praises and respects to **Holy Prophet Hazrat Muhammad (Peace Be Upon Him)** whose blessings and exaltations flourished my thoughts and thrived my modest all glory to almighty efforts in the form of this write- up.

The work presented in this manuscript was accomplished under the inspiring guidance, generous assistance and supervision of **Dr. ABC,** Assistant Professor, Department of Biotechnology, University of Narowal. He had given the author guidance and advice with great patience. His criticism and suggestions as well as his editorial corrections had been of much value during the thesis write up.

I am grateful to **Dr. DEF,** Assistant Professor, Department of Food Science and Technology, University of Narowal. Who benevolently intended all possible ways to smooth execution of this presentation through his expert guidance, sympathetic and encouraging attitude all the time.

I am extremely thankful to Dr. GHI, Scientist, National Agriculture Research Center (NARC), Islamabad. He helps and guide me in my research and his suggestions and expert guidance are highly valuable during my research work.

**(Name of the student, font size 12, TNR bold and align right)**

**Student Name**

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**List of Abbreviation**

BGYMV Bean Golden Yellow Mosaic Virus

BSCTV Beet Severe Curly Top Virus

CLCuBuV Cotton Leaf Curl Burewala Virus

CLCuD Cotton leaf curl disease

**Abstract**

Abstract in first letter capital, font size 14, Times New Roman (TNR) bold and centralized. Body of the text TNR 12, 1.0-line spacing and justified. Highlight key findings from your research in the abstract and provide an overview of the significance of your work, its objective (s), findings, and conclusions. The word count for abstract is preferably up to 500 but not more than one page.

 ***Chapter 1***

**1. Introduction**

Introduction in first letter capital, font size 14, TNR bold and aligned left. Body of the text TNR 12, 1.5-line spacing and justified. Introduction clearly states and includes problem/process for which the study is planned, established need for the research, hypothesis, and objectives of the research.

 ***Chapter 2***

**2. Review of Literature**

Review of literature in first letter capital, font size 14, TNR bold and aligned left. Body of the text TNR 12, 1.5-line spacing and justified. Relevant to the proposed study and properly updated. Given in the reference list (not missing in References). Review may be written in some meaningful sequence (story writing). In the text, a reference should be quoted by the author's name and date in parentheses, in date order, e.g. (Aslam, 2010; Bashir et al., 2020). Where there are three or more authors, the first name followed by et al. should be used. A list of references should be given at the end of the text listing. In text: Aslam and Bashir (2022); Aslam (2022); Ashraf (2022 a,b); (Ashraf, 2022), (Aslam and Bashir, 2022; Bashir, 2021; Irfan, 2022); Iqbal et al. (1990) (no personal communication). Preferably the review of literature updated with recent research e.g., last 10 years. Table and figure legends should be self-explanatory and specific, and they should be written above the table and below the figure, respectively. Figure and Table in first letter capital, font size 12, TNR bold and justified. Moreover, between text figure and table referenced as Fig. 2.1. and Tab. 2.1.

Example

**Figure 2. 1.** Assembly of CRISPR-Cas9 complex. (A) Key features of Cas9-gRNA complex. (B) Key features of catalytically dead Cas9-gRNA complex.

**Table 2. 1.** Name and functions of begomoviruses genes.

 ***Chapter 3***

**3. Materials and Methods**

Materials and Methods/Methodology in first letter capital, font size 14, TNR bold and aligned left. Body of the text TNR 12, 1.5-line spacing and justified. Clearly stated, location of the experiment/area from data collected is mentioned, treatment details, survey data, statistical methods/ lab techniques or any other, experimental design/technique, treatment comparison test mentioned, and statistical/analytical reference mentioned. Table and figure legends should be self-explanatory and specific, and they should be written above the table and below the figure, respectively. Figure and Table in first letter capital, font size 12, TNR bold and justified. Moreover, between text figure and table referenced as Fig. 3.1. and Tab. 3.1.

Example

**Figure 3. 1.** Assembly of CRISPR-Cas9 complex. (A) Key features of Cas9-gRNA complex. (B) Key features of catalytically dead Cas9-gRNA complex.

**Table 3. 2.** Name and functions of begomoviruses genes.

 ***Chapter 4***

**4. Results**

Results in first letter capital, font size 14, TNR bold and aligned left. Body of the text TNR 12, 1.5-line spacing and justified. Main experimental findings, any statistical analysis, and whether the results are significant should all be stated in the results section. Table and figure legends should be self-explanatory and specific, and they should be written above the table and below the figure, respectively. Figure and Table in first letter capital, font size 12, TNR bold and justified. Moreover, between text figure and table referenced as Fig. 4.1. and Tab. 4.1.

Example

**Figure 4. 1.** Assembly of CRISPR-Cas9 complex. (A) Key features of Cas9-gRNA complex. (B) Key features of catalytically dead Cas9-gRNA complex.

**Table 4. 3.** Name and functions of begomoviruses genes.

 ***Chapter 5***

**Discussion**

Discussion in first letter capital, font size 14, TNR bold and aligned left. Body of the text TNR 12, 1.5-line spacing and justified. The discussion section needs to review your findings considering the literature and the context of information already available on the subject. This section has four purposes: Interpret and explain your results, answer your research question, justify your approach, and critically evaluate your study.

 ***Chapter 6***

**Summary**

Summary in first letter capital, font size 14, TNR bold and aligned left. Body of the text TNR 12, 1.5-line spacing and justified. Utilizes one or more brief, well-developed paragraphs. Uses a body structure to logically connect the information provided by presenting the purpose, results, conclusions, and future recommendations. Utilizes passive verbs and stress the information rather than adding any new information.

**References**

Reference in list mentioned in the text, names (spell) and year of publication same in text. List is arranged alphabetically, TNR 12- and single-line space. In the list references are not duplicated. References are written in format of APA style. Each reference is separated before and after by setting 6pt in indent spacing and hanging.

**(Examples)**

**Research and review article:**

Mubarik, M. S., Khan, S. H., Sajjad, M., Raza, A., Hafeez, M. B., Yasmeen, T., ... & Arif, M. S. (2021). A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants. *Physiologia Plantarum*, *172*(2), 1269-1290.

In-text citation: (Mubarik et al., 2021) and Mubarik et al. (2021)

**Journal or magazine article:**

Famine relief: Just a simple matter of supplying food? (2002). Nutrition Noteworthy, 5(1). Retrieved from <http://escholarship.org/uc/uclabiolchem_nutritionnoteworthy>.

In-text citation: (“Famine Relief,” 2002)

**Books:**

Ahmad, A., Khan, S. H., & Khan, Z. (Eds.). (2021). CRISPR Crops: The Future of Food Security. Springer Singapore.

In-text citation: (Ahmad et al., 2021) and Ahmad et al. (2021)

**Chapter in a book:**

Mubarik, M. S., Khan, S. H., & Sajjad, M. (2021). Key Applications of CRISPR/Cas for Yield and Nutritional Improvement. In CRISPR Crops (pp. 213-230). Springer, Singapore.

In-text citation: (Mubarik et al., 2021) and Mubarik et al. (2021)

**Software and websites:**

SAS/STAT®. 1996. User’s Guide. Version 6. SAS Inst., Inc., Cary, NC. USA.

National Agricultural Statistics Service. 1997. Crops country data. Available online with updates at https://usda.mannlib.comell. edu/data-sets/crops/9X100. Accessed on day-month-year (06-03-2020).

**Organization/ Govt. department documents:**

GOP. 2021. Pakistan Economic Survey 2021-22. Finance and Economic Affairs Division, Ministry of Finance, Govt. of Pakistan, Islamabad, Pakistan.

GOP. 2021. Agricultural Statistics Year Book 2021-22. Ministry of National Food Security and Research, Govt. of Pakistan, Islamabad, Pakistan.

**Works with an anonymous author:**

Anonymous. (2010). Food safety shake-up needed in the USA. *The Lancet*, 375(9732), 2122. Retrieved from <http://www.thelancet.com>.

In-text citation: Anonymous, 2010).

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**Appendices (if any)**