

**National Institute of Agricultural Extension Management (MANAGE),
Rajendranagar, Hyderabad - 500 030**

**Assignment Topics for
AWM 101: CONCEPTUAL & REGULATORY FRAMEWORK**

(Note – Attempt any two topics/ questions and submit online as per the information provided in Guidelines)

- 1) The agricultural produce are seasonal in nature, majority of them are perishable and limited to specific geographical area. On the other hand, consumption is widespread, round the year with variable demand. Under these circumstances, how does warehousing play a key role in protecting the interest of both producer as well as consumers by establishing linkage between production and consumption. what are different measures to be taken to consolidate farm products to reduce transportation cost and to achieve the economies of scale? Kindly discuss in detail.
- 2) Warehousing is an integral part of supply chain management which helps in minimising seasonal and inter regional price fluctuation and thus serving time and place utility in the entire supply chain. What are the measures to be taken to bring more efficiency in supply chain management and to boost the economic interest of different stakeholders mainly farmer-producers? Kindly discuss in detail.
- 3) Write a short note on the structural and functional diversity of warehouses in India. Describe the structural and functional details of warehouses categorised on the basis of their infrastructure and give some suggestions to improve the same.
- 4) How warehousing plays an important role in strengthening marketing of agricultural produce. What are the initiatives taken by the government to popularise warehousing in agri-marketing? Kindly discuss in detail.
- 5) In order to develop the warehousing sector in the country, the Government of India has introduced a Negotiable Warehouse Receipt system in the country with the enactment of the Warehousing (Development and Regulation) Act, 2007. What is major objective of the government behind introducing an Act like this. Elaborate the functions and processes of Authority established under the Act including the benefits of Negotiable Warehouse Receipts System. How can this act help in protecting the quality, safety and security of goods stored in a warehouse?
- 6) Warehousing in present time has a major role to play in the development of agriculture and linking farmers with the markets. How has warehousing evolved in the Country over years. A few popular initiatives taken by the government to improve storage capacity in the country. What are the key challenges faced by warehousing sector in India? Kindly discuss in detail.

Assignment Topics for

AWM 102: WAREHOUSE BUSINESS & OPERATIONS

(Note – Attempt any two topics/ questions and submit online as per the information provided in Guidelines)

- 1) Warehousing plays an important role in smooth flow of produce from the point of production to the end user by bridging time and place gap. Accordingly, the sector has registered impressive growth since independence with the development of agriculture. Kindly discuss the change and emerging role of Indian warehouse industry over time. Also, through some light on the initiatives taken by the Government in recent past to boost the sector.
- 2) Warehousing is not only about storage and preservation of agricultural produce but also involves other facilities and services like transportation, handling and distribution, packaging, etc. In this context, discuss the importance of different activities in the process of entire supply chain management.
- 3) What are the key growth-drivers necessary for the development of warehousing industry in your district? Discuss the various constraints for development and expansion of warehousing in your district. Also suggest some policy measures to overcome the same.
- 4) What are the factors that influence the quality of agricultural produce? Suggest some measures to maintain the quality of agri-produce during storage. How can warehousing help in effective management of quality of agri-commodities?
- 5) Assessment of storage capacity is vital for success of an agri-warehousing project. What is required to be considered for assessment of storage capacity? Why do we take the concept of marked surplus for making an assessment of storage capacity and not others?
- 6) What do you mean by Stack plan? Briefly explain the different types of stack plan used for stacking agri-commodities in warehouses. Also, write a short note on preparation of stack plan with the help of diagram.

Assignment Topics for

AWM 103: GRADING AND ASSAYING

(Note – Attempt any two topics/ questions and submit online as per the information provided in Guidelines)

- 1) Quality of agricultural commodities has a major role in defining their economic value. Hence, due care and attention is given while accepting commodities which are well within the ‘acceptance criteria’ to preserve their quality during storage. Under this situation, how sampling helps in quality management? What are the basic principles of sampling? Kindly discuss.
- 2) There are several attributes which determine the quality of the grain. These attributes are objective and measurable. On similar line, discuss the concept of Agri-commodity Analysis and explain how this concept will help in testing the stability of Agri-commodities.
- 3) What are basic principles of laboratory establishment? Assume that you are asked to establish a laboratory in your district place, what are the pre-requisite for establishing a laboratory?
- 4) What do you mean by laboratory management system? What are the processes required to be followed to assure quality of results?
- 5) Commodity standards and grades helps in measuring the quality and value of agricultural produce. These standards provide a basis for trade and promote efficiency in marketing and procurement. On similar line, discuss the criteria to be considered for grading of agriculture commodities. What are the major crops grown in your area and write general characteristics of any one crop as per Agmark specifications.
- 6) How the quality preservation of commodities are influenced by internal as well as external environment during the storage period? Mention the important internal and external factors and discuss the control measures for the same.

Assignment Topics for

AWM 104: STORAGE PEST AND THEIR MANAGEMENT

(Note – Attempt any two topics/ questions and submit online as per the information provided in Guidelines)

- 1) Preservation of quality of stored stock is important in warehousing. What are the different biotic and abiotic factors affecting storability of agri-commodities. Also discuss, general precautionary measures to be taken to ensure safe storage.
- 2) Why is prophylactic measures considered so important in warehousing. Kindly explain by listing some of its advantages. What are the different prophylactic measures adopted in agri-warehousing.
- 3) Proper drying of grains and storing them with moisture content within the defined limit may help in preventing the damage by moulds. Substantiate the statement.
- 4) Rodents are direct pests affecting stored grains and causing both quantitative and qualitative loss. In this connection, how will you identify the presence of rodents in the storage structure? What are the preventative and control measures to be adopted for effective control of rodents in a warehouse?
- 5) Moisture content of grain plays a crucial role in its post-harvest management. If moisture content is too high in stored grain, even the best aeration facilities and monitoring system may not prevent the grain from spoiling. On similar line, kindly discuss the concept of moisture migration. Also discuss the problems associated with high moisture content in foodgrains. Kindly suggest the moisture limit prescribed for some of the major foodgrains to ensure safe storage.
- 6) What do you mean by fumigation? Why is fumigation required in agri-warehousing to maintain quality of stored agri-commodities. Also mention about the chemicals used for fumigation.
