AEM 204: Information and Communication Technology in Agriculture (3 Credits)

Maximum Marks- 70   Duration- 2 ½ hours

ANSWER ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

1.   Explain m-kisan portal and its utility for farmers advisory?

2.   Explain the role of Agrisnet portal in effective utilization of internet for farm advisory.

3.   Write short notes on **any four** of the following:

1. Village Knowledge Centre

2. Kisan Call Centre

3. Smart phones and its use in Extension

4. Remote sensing in Agriculture

5. GPS guided precision farming

4.   Differentiate between e-extension and m-extension when cloud computing and smart phones are the order of the day ? List the advantages of each.

5.   Discuss the role of Expert Systems in providing ICT based extension services to farmers and how it helps the extension worker in performing transfer of technology activities?

6.   What is m-extension? (5 marks)
     Discuss the advantages & disadvantages of **any three** Social media listed below, in dissemination of agriculture related information.
     1.   Whatsapp   (3 marks)
     2.   Facebook   (3 marks)
     3.   Twitter   (3 marks)
     4.   youtube   (3 marks)
     5.   Wikipedia   (3 marks)
     6.   E-mails   (3 marks)

7.   A GPS guided Extension worker can promote precision farming like effective soil nutrient management, pesticide management, & harvesting – Explain.

8.   E-governance simplifies decision making process in administration - justify with example.

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)

2nd Semester 2013-14 Term End Examinations & Supplementary Examinations of 2007-08 to 2012-13

AEM 204: Information and Communication Technology in Agriculture (3 Credits)

Max. Marks-70   **Duration - 2 ½ hrs.**

ANSWER **ANY 5 QUESTIONS**. ALL QUESTIONS CARRY EQUAL MARKS

1. Name at least 5 search engines and explain how a search engine work. Also discuss how **Agropedia** works.

2. Explain the working of a Kisan Call Center and benefits farmers can derive out of it.

3. What is the role of Information and Communication Technology (ICT) in Agricultural Extension ? Explain with examples.

4. Explain AGRISNET (Agriculture Resources Information System Network) and its features for dissemination of technology. Illustrate with some example/ success story, how Extension workers can use AGRISNET portal for transfer of technology.

5. How can GIS be used for Agricultural development?

6. Describe precision farming using GPS guided equipments.

7. Differentiate between e-extension and e-governance with examples.

8. Write short notes on **any four** of the following:

    a. Folk Media

    b. Remote Sensing

    c. Community Radio Station

    d. Print media in Agricultural extension

    e. Information Kiosks

    f. Cyber Extension

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)

**2nd Semester 2013-14 Term End Examinations &
Supplementary Examinations of 2007-08 to 2012-13**

AEM : 204 - Information and Communication Technology in Agriculture (3 Credits)

Max. Marks-70   **Duration - 2 ½ hrs.**

<u>ANSWER ANY 5 QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS</u>

1. Explain the relevance of Village Knowledge Centre in the context Transfer of Technology.

2. Explain the working of a Kisan Call Center (KCC) and benefits farmers can derive out of it.

3. Explain the concept of Digital Green & Social Media and its importance in Transfer of Technology.

4. Explain the concept of Cloud Computing and how Extension workers can use AGRISNET portal for dissemination of technology.

5. Explain the concept of Expert systems and its role in dissemination of Agricultural technologies.

6. Explain Participatory GIS and how it can be used for effective Transfer of Technology and decision making.

7. Describe precision farming using GPS guided equipments

8. Explain the application of Remote Sensing Data in Agriculture.

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AEM 204: Information & Communication Technology in Agriculture
(3 CREDITS)

MAX MARKS-70   **DURATION- 2 ½ hrs.**

Answer any five of the following questions. All questions carry equal marks

1)   What do understand by the term Information & Communication Technology and explain in detail how it helps in dissemination of technology and other aspects related to agriculture and allied enterprises taking the concept of Village Resource Centre (VRC)?

2)   Write short notes on four of the following:
   a) Web portal
   b) Wireless sensor networks in Agriculture
   c) Uniform Resource Locator (URL)
   d) Expert systems in the field of Agriculture (examples)
   e) Functions of Geographical information System (GIS)
   f) Remote Sensing Data Acquisition Techniques.
   g) Importance of internet and its simple characteristics

3)   What do you understand by computer networking and explain in detail the network classification based on geographical area coverage?

4)   Distance learning has the advantage of utilizing the expert services elsewhere to the advantage of target learners. Explain how the video conferencing can be made functional and used as an effective learning medium?

5)   Explain the idea behind creating an "Expert System" in computers and write the expert system development stages with a diagrammatic depiction?

6)   Write briefly on four of the following:
   a) Application of Remote sensing in soils & chip management
   b) AGRISNET – web portal
   c) ITC-E-choupal
   d) Farmer call center (Kissan call center)
   e) Components of E-Governance
   f) Type of Tele centers
   g) Computer networking – Open Systems Interconnection (OSI) seven layer model.

7)   Effective and interactive transfer of technology is the need of the hour and e-extension plays an important role in this direction. As an officer of the development department, explain in detail the importance/need for e-extension citing an e-extension initiative village Knowledge Centre (VKC) of MSSRF?

8)   What do you understand by E–Governance and explain the components of E– Governance along with benefits/advantages to the citizen of this country?

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)
SECOND SEMESTER EXAMINATION - 2012– 13 BATCH
JANUARY 2014

Course No. 204 : INFORMATION AND COMMUNICATION TECHNOLOGIES
FOR AGRICULTURAL DEVELOPMENT (3 credits)

Maximum Marks : 70   Duration : 2½ Hrs.

Answer any five questions. All questions carry equal marks.

1. Explain briefly what is the role of information and communication technology with examples?

2. What do you understand by the term internet and draw a figure of internet connection and explain briefly about the **video** conferencing.

3. Write any **three** of the following :

    a. Folk Media
    b. Remote Sensing
    c. Community Radio Station
    d. Print media in agriculture extension
    e. Information Kiosks

4. What is network and list out type of network and also explain LAN and WAN?

5. Explain the importance of Kisan Call Centre and what measures can help to extension worker to bring awareness to the farming community?

6. What do you understand by the term e-Governance and list out the critical success factors for e-Goverance?

7. Write short notes on any **three** of the following :

    a. Village Kowledge Centres
    b. 'e' Sagu (Cultivation)
    c. Cyber Extension
    d. Search Engines
    e. Remote Sensing

8. What is meant by Geographical Information Systems and write briefly about the components of GIS.

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)

SPECIAL SUPPLEMENTARY EXAMINATION – DECEMBER 2013
Course- 204: ICT's for Agriculture

Max Marks: 70   Duration: 2 ½ hrs.

Answer any Five questions. All questions carry equal marks

1.   Discuss the following concepts:

      A. Village Knowledge Center------5 B. Village Resource Center --------5 C. Web portal -----------------------4

2.   Discuss the role of Telecenter in farmers E-learning

3.   Discuss computer networking for farmers and extension workers to learn

4.   What is LAN,WAN,MAN, and PAN and how these are useful to network farmers and extension workers?

5.   Discuss the role of internet in transfer of technology by extension workers?

6.   Write short notes on
      A. Internet service provider
      B. Video conferencing for transfer of technology

7.   Discuss the role of expert systems in Agricultural extension with special reference to transfer of technology

8.   How can GIS be used for Agricultural development?

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)
Final Examination (February 2010)

Course 204: Information and Communication Technology in Agriculture (3 Credits)

Maximum Marks: 70   **Duration: 2 ½ hrs**

Answer any five questions. All questions carry equal marks

1. What is Kisan Call Center? Explain the importance of Kisan Call Center (KCC) in Agricultural Extension? What measures you will adopt to bring awareness among the farmers about KCC.

2. What are the major agricultural search engines known to you? Discuss how the search engines help in knowledge enhancement.

3. Write short notes on any three of the following

    a. E-chaupal
    b. Information Kiosk
    c. Use of Internet in agriculture
    d. Remote Sensing
    e. Use of Mobile phones in extension

4. What is the objective of Open Access? How does Open Access improve the availability of agricultural information in developing countries?

5. What is the role of Information and Communication Technology (ICT) in Agricultural Extension? Explain with examples.

6. Explain the concept of Information kiosk and its importance in disseminating innovations in agricultural technology.

7. What is Expert System? How Expert System would help in bridging the knowledge gaps between experts and farmers? Explain its advantages and disadvantages.

8. Explain the importance of Community Radio Station (CRS) in agricultural extension.

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)
Final Examination, First Semester 2008-09 (August 2009)

Course 204: Information and Communication Technology in Agriculture   (3 Credits)

Maximum Marks: 70   **Duration: 2 ½ hrs**

Answer any five of the following questions. All questions carry equal marks.

1. Explain the concept of Information kiosk and its importance in disseminating innovations in agricultural technology.

2. What is the objective of Open Access? How does Open Access improve the availability of agricultural information in developing countries?

3. What do you understand by Geographical Information Systems (GIS)? Describe main features of two GIS softwares? How it helps in agricultural development?

4. Explain the role and importance of Kisan Call Center (KCC) in agricultural extension?

5. Write short notes on any three of the following

   a) Agrisnet
   b) LAN & WAN
   c) Remote Sensing
   d) Print media in extension
   e) Use of Mobile phones in extension

6. What are the major agricultural search engines known to you? Discuss how the search engines help in knowledge enhancement.

7. Explain the utility of Community Radio Station (CRS) in agricultural extension.

8. What is the role of Information and Communication Technology (ICT) in Agricultural Extension? Explain with examples.

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Post Graduate Diploma in Agricultural Extension Management (PGDAEM)
Final Examination (August 2010)

Course 204: Information and Communication Technology in Agriculture (3 Credits)

Maximum Marks: 70   Duration: 2 ½ hrs

Answer any five questions. All questions carry equal marks

1. Define Expert System? Briefly explain the process of developing an expert system?

2. What is AGRISNET project initiated by Govt. of India? Describe its features and utility to the functionaries of your department?

3. Define the concept of KCC? Explain the functioning of KCC and its importance in agricultural information dissemination?

4. What is Geographical Information System? Explain briefly the components of GIS? Describe the role of Remote Sensing and Geographical Information Systems in Agriculture?

5. What is e-Governance? How it will be helpful in Agriculture domain? Explain with examples?

6. What is input device? Describe various input devices used with computer system?

7. Explain the concept of Common Service Centers or Village Knowledge Centers? How these centers can be utilized to dissemination of agricultural information to the farmers?

8. Write a short note on any three of following:

   a. Operating Systems Software
   b. Local Area Network
   c. Computer Memory Unit
   d. Modem
   e. Browser

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