Affiliated to Goa University

B. Sc. (Hons.) Agriculture Midterm Examination

Academic Year: 2025-26 Semester: I

Course No.: AEC 112 Course Title: Communication Skills

Total marks: 20 (Section 'A'- 8 marks + Section 'B'- 12 marks)

Time: 1 hr (Section 'A'-15 min & Section 'B' – 45 min)
Date: 03/10/2025 Roll No:

Note: 1) Use of laptop, mobile, smartwatch is prohibited.

- 2) Draw neat labelled diagrams wherever necessary.
- 3) In Section 'A' all questions are compulsory.
- 4) Section 'A' should be answered on OMR sheet.

#### **SECTION "A"**

 $(8Q \times 1M = 8Marks)$ 

#### **Multiple choice questions**

<ol> <li>Which of the following is NOT an element</li> <li>Sender</li> </ol>	C) Noise
B) Message	D) Examination
2. The main purpose of communication is	to:
A) Express ideas and share information	C) Fill time
B) Show authority	D) Impress others
3. Note-taking is best described as:	
A) Writing everything word-for-word	C) Memorizing the entire lecture
B) Selecting and recording key ideas	D) Writing only questions
4. Which method of note-taking uses keywo	ords and arrows to show connections?
A) Sentence method	C) Mapping method
B) Cornell method	D) Charting method

- 5. Listening differs from hearing because it involves:
- A) Just receiving sound
- B) Passive attention
- C) Active understanding and interpretation
- D) Ignoring distractions

6. Which of the following is NOT a type of	listening?
A) Appreciative listening	C) Empathetic listening
B) Critical listening	D) Mechanical listening
7. Good listening skills are important for no	ote-taking because:
A) They help ignore unimportant points	C) They allow selection of main ideas
B) They improve handwriting	D) They make lectures shorter

8. The Cornell method of note-taking includes:

A) Notes, Cue column, and Summary

C) Writing in full paragraphs

B) Mind maps only

D) Diagrams and arrows exclusively

#### **SECTION "B"**

Answer any four questions

(4Q X 3M = 12 Marks)

- Q 09. Define communication and explain Rogers and Shoemaker's model of communication.
- Q 10. What is note-taking? Explain the different methods of note-taking.
- Q 11. Define listening skills. List the types of note-taking and explain any four types in detail.
- Q 12. Explain the process of communication.
- Q 13. Define précis and write the steps involved in writing a précis.
- Q 14. Enlist types of noise and explain with example.

Affiliated to Goa University

# B. Sc. (Hons.) Agriculture

# **Midterm Examination**

Academic Year: 2025-2026 Course No.: MDC 111 Course	Semester: I Title: Farming Based Livelihood Systems
Total marks: 20 (Section 'A'- 8 mar	
Time: 1 h r (Section 'A'-15 min & Date: 03/10/2025	•
Note: 1) Use of laptop, mobile, smar 2) Draw neat labelled diagram 3) In Section 'A' all questions a 4) Section 'A' should be answe	as wherever necessary.  are compulsory.
SEC'	TION "A"
<del></del>	$(8Q \times 1M = 8Marks)$
	e pairs crop insurance against climate-related losses Yojana C. MGNREGA D. E-NAM
	comes exceeding Rs 26,000 - Rs 30,000 per
A. Punjab and Meghalaya B. Odish D. Bihar and Jharkhand	a and Assam C. Rajasthan and U.P
3. The total food grains production in 20	022 – 2023 is million tonnes
A. 240.1 B. 198.79	
4 is known as the l	neart of India
A. Kerala B. Maharashtra	C. Rajasthan D. Madhya Pradesh
5 digital initiative helps	Indian farmers get better price realization
A. E - NAM B. MSP	C. NRLM D. PM - KISAN
6 is a leading agricultu	ral state particularly known for cotton and
groundnut production	
A. Gujarat B. Uttar Pradesh	C. Haryana D. Karnataka
7. Punjab is often called the	
	d basket of India
C. Silk state D. Frui	t bowl of India
8. state has been proact	tive in adopting technology and sustainable

C. Tamil Nadu

D. Himachal Pradesh

practices

A. Goa

B. Assam

#### **SECTION "B"**

#### Answer any four questions

 $(4Q \times 3M = 12 \text{ Marks})$ 

- Q 09. Write about the status of agriculture in India
- Q 10. Mention and explain about the challenges faced by farmers in India
- Q 11. Define livelihood and write about the livelihood pattern in urban and rural areas
- Q 12. Enlist and explain about all the economic efficiency indicators to study livelihood systems
- Q 13. Write about the status of agriculture in Gujarat and Goa
- Q 14. Enlist and explain the key components of livelihood

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#### B.Sc.(Hons.)Agriculture

#### **Midterm Examination**

**Academic Year: 2025 - 2026 Semester: I** Course No.: EXTN 111 **Course Title: Rural Sociology** & Educational psychology Total marks: 30 (Section 'A'- 15 marks + Section 'B'- 15 marks) Time: (Section 'A'- 20 min & Section 'B'-1.0 hr) Date: 04.10.2025 **Roll No:** Note:1) Use of laptop, mobile, smart watch is prohibited. 2) In Section 'A' all questions are compulsory. 3) Section 'A' should be answered on OMR sheet. **SECTION"A"** All questions are compulsory (20 Q x 1 M = 20 Marks)Multiple choice questions 1. \_\_\_\_\_ is a person who exerts an influence over a number of people. A. Extension Personnel C. Manager D. Leader B. Teacher 2. \_\_\_\_\_\_ is the youngest of all social sciences. A. History B. Sociology C. Extension D. Geography 3. \_\_\_\_\_ is the science of society A. Agronomy B. Extension C. Sociology D. Geography 4. \_\_\_\_\_\_ is the basic and important unit in the organization of Indian Society. A. Taluka B. District C. State D. Village 5. \_\_\_\_\_\_is the application of scientific research and new knowledge to agricultural practices through farmer education. A. Agricultural Extension B. Fishery Extension C. Veterinary Extension D. None of the above 6. \_\_\_\_\_as a collection of human beings who enter into distinctive social relationships with one another. A. Social group B. Social norms C. Social Change D. None of the above 7. is growth like and continuous. A. Teaching B. Management C. Learning D. None of the above

8	is example of permanent group	).
	A. Friends	B. Colleague
	C. Neighbour	D. Family
9	is at the centre of learning proce	ess.
	A. Learner	B. Teacher
	C. Subject / Content	D. Teaching aid
10	may be defined as a group with	h which an individual feels identified the
norms	and objectives of which he accepts.	
	A. Primary group	B. In group
	C. Informal group	D. Reference group
11. Ma	an cannot survive as man without	
	A. Agriculture	B. Culture
	C. Animals	D. Rules
12	consists of manmade obje	ects such as house, tools, food, clothing etc
	A. Non material culture	B. Material Culture
	C. Technical culture	D. None of the above
	is used to denote acquired be nitted among the members of the society	
	A. Culture	B. Traditions
	C. Norms	D. Folkways
14.	is the chief vehicle of culture	
	A. Human	B. Language
	C. Traditions	D. Books
15. Th	ne persons to whom people to whom peo	ople go for advice on certain issue are
	A. Opinion Leader	<u> </u>
	C. Democratic leader	D. None of the above
	SECTIO	N "B"
	Answer any fi	ve questions $(5Q \times 3M = 15Marks)$
Q. 16	Define rural sociology. Explain its sco	ppe & importance of study.
Q. 17	Explain briefly rural - urban difference	es and relationships.
Q. 18	Define culture. Describe characteristic	es of culture in brief.
Q. 19	Write the classification of social group	os according to nature of interaction &
	membership type with examples.	
Q. 20	Define intelligence. Explain different	types of intelligence.
Q. 21	Explain steps in Extension Teaching w	vith diagram.
Q. 22	Classify diff. leaders based on the type	es of leadership & role they perform.

# Answer Key:

- 1. D
- 2. B
- 3. C
- 4. D
- 5. A
- 6. A
- 7. C
- 8. D
- 9. A
- 10. D
- 11.B
- 12.B
- 13. A
- 14.B
- 15. A

#### Affiliated to Goa University

#### B. Sc. (Hons.) Agriculture **Midterm Examination**

Academic Year: 2025-26 Semester: I

Course No.: AGRO-111 **Course Title: Fundamentals of Agronomy** 

Total marks: 20 (Section 'A'- 08 marks + Section 'B'- 12 marks)

Time: Section 'A'- 15 min & Section 'B' - 45 min) Date: 04.10.2025 **Roll No:** 

Note: 1) Use of laptop, mobile, smart watch is prohibited.

- 2) Draw neat labelled diagrams wherever necessary.
- 3) In Section 'A' all questions are compulsory.
- 4) Section 'A' should be answered on OMR sheet.

#### M

	SECTION "A"		(8Q x 1M =8 Marks)
ulti	ple choice questions		
1.	The Father of Agronomy is		
	A. Norman Borlaug	C.	Jethro Tull
	B. Peter De-Crescenzi	D.	C. V. Raman
2.	Field crops are mainly grown for		
	A. Ornamental purposes		
	B. Food, feed, fiber, fodder, and industrial uses		
	C. Only soil improvement		
	D. Only medicinal value		
3.	Which of the following is a pulse crop?		
	A. Groundnut	C.	Soybean
	B. Green gram	D.	Sunflower
4.	Which of the following is a primary tillage implement	ent?	
	A. Cultivator	C.	Mouldboard plough
	B. Harrow	D.	Clod crusher
5.	The typical growth curve of plants is:		
	A. Linear	C.	Exponential
	B. Sigmoid (S-shaped)	D.	Logarithmic
6.	In conservation tillage, the minimum crop residue	cove	er required on the soil surface
	is		
	A. 10%	C.	30%
	B. 20%	D.	50%

- 7. Which of the following is a suggested book for the fundamentals of Agronomy course?
  - A. Principles of Agronomy S.R. Reddy
  - B. Principles of Agronomy Yellamanda Reddy & Sankara Reddy
  - C. Handbook of Agriculture ICAR Publication
  - D. All of these
- 8. How many criteria of essentiality were given by Arnon and Stout?

A. Two

C. Four

B. Three

D. Five

#### **SECTION "B"**

#### Answer any four questions

(4 X 3 = 12 Marks)

- Q1. Define Agronomy and explain its scope
- Q2. Classify field crops on the basis of their agronomic use and growing season.
- Q3. Define seed and list the characteristics of an ideal seed.
- Q4. Define tillage and explain its types.
- **Q5**. Write a short note on (Any two)
  - a. Growth curve
- b. Dibbling method
- c. Crop geometry
- Q6. Explain in detail modern concepts of tillage

\*\*\*\*

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# B. Sc. (Hons.) Agriculture **Midterm Examination**

Academic	<b>Year: 2025-26</b>	Semester: I
<b>Academic</b>	Year: 2025-26	Semester: 1

Course No.: SSAC-111 Course Title: Fundamentals of Soil Science

Total marks: 20 (Section 'A'- 8 marks + Section 'B'- 12 marks)

Time: 1 hr (Section 'A'-15 min & Section 'B' - 45 min)

**Date:06.10.2025** Roll No:

Note: 1) Use of laptop, mobile, smartwatch is prohibited.

- 2) Draw neat labelled diagrams wherever necessary.
- 3) In Section 'A' all questions are compulsory.
- 4) Section 'A' should be answered on OMR sheet.

#### **SECTION "A"**

 $(8Q \times 1M = 8Marks)$ 

Multiple choice questions/Match the pai	ina
1. The rock is termed as breccia, if the frag	•
A. Shale	C. Limestone
B. Breccia	D. Sandstone
2. type of chemical weathering	is considered as the forerunner in clay
formation (secondary clay minerals)	•
A. Solution	C. Reduction
B. Oxidation	D. hydrolysis
3. horizon includes both organ	ic and mineral liminic materials that are
deposited in water by precipation or through	the action of algae and diatoms.
A. L	C. A
B. M	D. B
4. In transitional horizon, horizon dominated	d by properties of one master horizon but
having subordinate properties of another is of	• • •
A. A-B	Č. AB
B. A+B	D. A/B
5. Size of cobbles	
A. 2-4 mm	C. 76-250mm
B. 4-76mm	D. 250-600mm
6. Mixing of soil by the churning and proces	
is due to	is caused by senting and similkage of clays
	C. Florel and strubetion
A. Faunal pedoturbation	C. Floral pedoturbation
B. Cryo-pedoturbation	D. Agrillipedoturbation

7. structure is inher	ited from parent material and may also be formed
formed due to compaction of clayer	y soils by heavy machinery.
A. Blocky	C. Platy
B. Laminar	D. Columnar
8. Structural coefficient is given by	
A. $D+S/S$	C. D-S/D
B. D*S/S	D. D-S/S

#### **SECTION "B"**

#### Answer any four questions

(4Q X 3M = 12 Marks)

- Q 09. Define Rocks. Give the brief classification of Rocks.
- Q 10. Define Minerals. Write detail about the properties of minerals.
- Q 11. Enlist Zonal and Intrazonal Soil forming processes and explain Fundamentals soil forming processes.
- Q 12.Define Peds and Clods. Explain in detail about Types of Soil Structures.
- Q 13. Define Soil Monolith and explain about Master Horizons
- Q 14.Define Stoke's Law. Write assumptions and limitations of Stoke's Law.

Affiliated to Goa University

# B. Sc. (Hons.) Agriculture

# **Midterm Examination**

Academic Year Course No.: He Total marks: 2 Time: 1 hr (S Date: 07/10/202	ORT 111 20 (Section 'A'- Section 'A'-15	8 marks + Se	Fundamental ction 'B'- 12 m	,
3) In Sec	laptop, mobile neat labelled d tion 'A' all que n 'A' should be	iagrams where estions are com	ever necessary pulsory.	•
		SECTION "	<b>A</b> "	
				$(8Q \times 1M = 8Marks)$
Multiple choic  1. Pineapple is A. Sorosis  2. Which is not a	which kind of fr B.Capsule	_	D. Drupe	
A.Banana 3. Which is clin	B.Papaya	C.Sapota	D.Bael	
A. Grape 4. Horticulture	B. Citrus is derived form		D.Pineapple	
A. Greek	B. Latin	C. Persian	D.Spanish	
5. Indian Institut	te of Vegetable r	esearch is locat	ed at	
A.Delhi	B.Varanasi	C.Hydrabad	D. Shillong	
6. Specialized v	regetative propo	gation structur	e found in glad	iolus is
A Bulb	B. Rhizome C.	. Corm	D. Stolon	
7. Edible part in	Broccoli is			
A.Stem	B. Leaf C.F	Flower	D. roots	
8. Family of jack				
A. Moraceae	B.Myrtac	ceae C. Ca	ricaceae D. Ru	ıtaceae
		CE CELON	(D)	

#### **SECTION "B"**

Answer any four questions

 $(4Q \times 3M = 12 \text{ Marks})$ 

Q 09. write scope of horticulture in brief.

- Q 10. Enlist different basis of classification of horticultural plants and write in detail about classification on basis of rate of respiration
- Q 11. Write in brief about horticultural zones in India.
- Q 12. Enlist different methods of layering and write in detail about air layering.
- Q 13. Give merits and demerits of sexual propagation method.
- Q 14. Enlist different methods of grafting and write in detail about stone grafting.

PAGE NO.:

	GOA COLLEGE OF AGRICULTURE
	B.Sc. (Hons) Agriculture
	Academic Year: 2025-26 Semester-I
	Course No: MATHINE Course Title: Introductory
	Mathemathics
	Total Marks: 30 (Section A' - 15 Marks + Section B' - 15 Marks)
	Date: 06.10.2025 14 100 D. Roll No.: 1910 10 10 10 10 10 10 10 10 10 10 10 10 1
	SECTION A' (IA SA A
*	MULTIPLE CHOICE QUESTIONS (150 × 1 M = 10 Marks)
1.	Give the Relationship between A, G, H
	A. A > G < H CRAZG < H PARA
	B. A > G > H D. A < G > H
1.1 (2.	How Harmonic Mean (4) of a and b is calculated
	A. ab/a+b c. ab/2a+2b
	B. 2ab/a+b D. 2ab/a-b
3,	A Matrix in which the numbers of rows are equal to the
	numbers of colums, is said to be Matrix.
	A. Column Square Square
	B. Row O. Scalar Marian
4.	If A = [aij], B = [bij] are matrices of the same order, say mxn,
	then A+B = B+A, then it is a Lqw.
	A. Commutative law c. Existence of additive identity
	B. Associative law D. The existence of additive inverse.
5.	Let A= [aij] be an mxn matrix and a be an mxn zero matrix,
1,513	then A+0 = 0+A = A, In other words, o is the for
	matrix addition.
	A. The existence of additive inverse
	B. Existence of additive identity
	c. Commutative law
	D. Associative law

Honoteric

HX FX F S

6-21 ...

DATE: / /

6.	A=	13	٥	٥٠	is an example of
		0	13	٥	Lowelphio A (are the 18
		0	0	V3	92 0. 32 1 102th

A. Column matrix B. Row matrix

B. Scalar matrix D. Zero matrix

7. Relationship between A, G and H 3002-01-20 : 5'pC

A.  $G^2$ =AH C. G=AH<sup>2</sup>

B! G=HA-31. D.G=AHIBBUR ANDID ANGRED TO

8. Find the Sum of first 100 Natural numbers.

A. 4050 C. 6050

8. 5050 HS 1D: 7050

9. 3rd term in Arithmetic Progression ..... when first term is 3 and the common difference is 2.

A. 6 B. 7-0 dec c.8 D.90 de. 8

10. Find the 18th term of ap from given series.

A. 131072 Equip 20. 132074 Amil 30 .A

B. 262144 D. 282144

11. Sum of infinite terms of G.P is given by I . I I I I I I

A. So = a apl ... . c. So = a . ! . Har att ...!

ultin der mittelbo to sottelskil a t-2 of sytheformod an

where  $B_{ij} S_{ij} = \underline{\alpha}$  satisfaix  $D_{ij} S_{ij} = \underline{\alpha}$  and avaid about a

12 To calculate the Sum of n terms in A.P when first and last terms are known.

A. Sn = n (Ti + Tin) C Sn = a(m-1)

B.  $Sn = n \left[ 2a + (n-1)d \right]$  D.  $Sn = a \left( (1-ir^n) \right)$ 

2 19 1-Fill 32-61 ...1

PAGE NO .:

DATE: / /

A. 
$$\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$$
 B- $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$  C  $\begin{bmatrix} 3 & 2 \\ 1 & 0 \end{bmatrix}$  D.  $\begin{bmatrix} 0 & 2 \\ 3 & 1 \end{bmatrix}$ 

d bar

0.17. If 
$$x+3$$
  $x+4$   $2y-7$  0 6  $3y-2$   
-6 0-1 0 = -6 -3  $2c+2$   
b-3 -21 0  $2b+4$  -21 0

9.19. Find x and Y, if 
$$x+Y=\begin{bmatrix} 5 & 2 \\ 0 & 9 \end{bmatrix}$$
 and  $x-Y=\begin{bmatrix} 3 & 6 \\ 0 & -1 \end{bmatrix}$ 



PAGE N	0.:	
DATE:	1	1

Postibha

	is, if n=[12] the quite size size
9.20.	If A = 3 (3 2 and B = 2 -1 2 , Verify that
	4 2 0 1 2 4
	i) (A')'= A;   d   e   e   e   e   e   e   e   e   e
	ii) (A+B)'= A'+B'
9.21.	Evaluate the determinant $\Delta = 1 2 4$
	- 2 8 - 4 brin -11- 3 - 01 11 del brint el
	0 0 4 1 0
9.22	Find the large of the triangle whose vertices are (3,8), (-4,2)
	and (5,1)
	is. hunspose of the Platices (if) a
	H. A. B. A. C. M. B. H.
	section e.
(asimMa	1=1×8×33) anotherum muranti
[6-][-]	gire Construct a 3x2 matrix alrest elements are given by
2	
	G.H. IF 043 7.FH 29 F C ' 6 80-1
	11-32 8- 3- 1- 0 1-40 3- 1-
	0 12-4 HADE - 0 12- 6-11 0
	Hind the values of a b, c on and x.
4	4 15 11 = 1 2 3 and 8 = 3 -1 3 then hid so b 1
	2 2 1 1 2 2
	To stay and I all texts P book built stay
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#### Affiliated to Goa University

#### B. Sc. (Hons.) Agriculture

#### **Midterm Examination**

Midderm Examination				
Academic Year: 2025-26  Course No.: BIO 111  Course Title: Introductory Biology Total marks: 20 (Section 'A'- 8 marks + Section 'B'- 12 marks) Time: 1hr (Section 'A'-15 min & Section 'B' - 45 min) Date: 06.10.2025  Roll No:				
Note:	<ol> <li>Use of laptop, mobile, s</li> <li>Draw neat labelled diag</li> <li>In Section 'A' all questi</li> <li>Section 'A' should be an</li> </ol>	grams wherever necessary. ons are compulsory.		
	SECTION	ON "A"		
		$(8Q \times 1M = 8Marks)$		
Multip	le choice questions			
1. Whic	h of the following is NOT a ch	naracteristic of living organisms?		
	Response to stimuli Reproduction	<ul><li>C. Inert Composition</li><li>D. Growth</li></ul>		
2. The p	process of naming, defining, ar	nd classifying groups of organisms is called:		
	Phylogeny Ecology	C. Taxonomy D. Evolution		
time is o	nerbarium specimen on whose called as Syntype Holotype	basis a new species is described for the first  C. Paratype D. Neotype		
4. Who	is considered the "Father of E	siology"?		
	Carl Linnaeus Charles Darwin	<ul><li>C. Aristotle</li><li>D. Gregor Mendel</li></ul>		
	cial system of classification of	assifies plants on the basis of-		

characters

D. None of the above

B. Phylogenetic trends

6. Through the selective cross-breedendel observed traits	eding of common pea plants ( <i>Pisum sativum</i> ),
A. Six B. Eight	C. Seven D. Nine
•	under support Oparin's theory of origin of life, that was found to contain amino acids, Glycine and l in the nucleus of a cell.
<ul><li>A. Haldane</li><li>B. Stanley Miller</li></ul>	C. Mendel D. Lamarck
8. The branch of science concerns organisms is known as	ed with genes, heredity, and variation in living
A. Eugenics	C. Genetics
B. Cytogenetics	D. Molecular Genetics
	SECTION "B"
Answei	r any four questions
	(4Q X 3M = 12 Marks)
Q 09. Why mendel picked garde traits he observed during s	en pea plants for his research study and write down tudies?
Q 10. Explain Oparin-Haldane t chemical evolution.	heory of chemical origin of life and list out steps of
Q 11. Write down the main rules	s of ICBN.
Q 12. Define biological classific	eation and explain types of classifications?
O 13. Explain Herbarium and its	s tynes.

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Q.14. Describe about the Museum and botanical garden