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B.Sc. Agriculture**I Semester / I Year Examination**

Subject Code: AG-109

Subject Name: Agriculture Heritage

[Time : 03:00 Hours]

[Max. Marks : 75]

Note: 1. Attempt all the questions as per given instructions.

2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs) [01×15=15]**I The main factor which affect the plant Growth?**

- (a) Soil (b) Urea
(c) Sun Light (d) Micronutrients

II What is a high value spice?

- (a) Cardamom (b) Saffron
(c) Black Pepper (d) Clove

III The main feature of Neolithic period

- (a) Rise of Agriculture (b) Invented textile & silk
(c) Using of Copper and Bronze (d) Food gatherers & hunters

IV Indus Valley Civilization is also refer to:

- (a) Mitanni (b) Mesopotamia
(c) Harappan Civilization (d) None of these

V Basmati has its origin in 'Sanskrit' word:

- (a) Vaas (b) Wars
(c) Saars (d) Naars

VI Rice is mainly which crop?

- (a) Rabi Crop (b) Kharif Crop
(c) Seasonal (d) Zaid

VII Round revolution is relate to the:

- (a) Tomato (b) Eggs
(c) Potato (d) None of the above

VIII Invention of plough.

- (a) 2900 B.C. (b) 2400 B.C.
(c) 2700 B.C. (d) 2300 B.C.

IX Which one is the fertilizer:

- (a) FYM (b) Urea
(c) Vermi-compost (d) Compost

[1]

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Program Name- B.Sc.Agriculture**Ist Semester / Ist Year Examination**

Subject Code- AG-104

Subject Name-Fundamentals of Horticulture

[Time : 03:00 Hours]

[Max. Marks : 75]

Note: 1. Attempt all the questions as per given instructions.

2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs) [01×15=15]**I Queen of Fruit is-**

- (a) Mango (b) Guava (c) Litchi (d) Papaya

II The World Horticulture is derived from which language?

- (a) English (b) Latin (c) Greek (d) None of these

III The cultivation and studies of fruit plant is known as-

- (a) Olericulture (b) Pomology
(c) Horticulture (d) Floriculture

IV Which fruit planting system is most useful in hilly areas? -

- (a) Square System (b) Rectangular System
(c) Contour System (d) Hexagonal System

V Budding propagation is commercially used in-

- (a) Mango (b) Aonla (c) Guava (d) Papaya

VI Total recommended requirement of vegetables per capita per day-

- (a) 300 gm (b) 245 gm (c) 120 gm (d) 220 gm

VII Rich source of Vitamin C is-

- (a) Mango (b) Aonla (c) Apple (d) Papaya

VIII Unfruitfulness can be controlled by following method-

- (a) Root pruning (b) Hormone application
(c) Ringing (d) All of above

IX Parthenocarpy is commonly found in which fruit?

- (a) Banana (b) Aonla (c) Ber (d) Phalsa

X Which hormone is commercially used for ripening of fruits and vegetables?

- (a) Ethylene (b) 2, 4-D (c) N.A.A.(d) Gibberellic Acid

[1]

X Groundnut & tobacco introduced by 16th century in India?

- (a) Swedish
- (b) Polish
- (c) Portuguese
- (d) Francis

XI The first domesticated animal was?

From starting.

- (a) Dog.
- (c) Pig
- (b) Goat
- (d) Sheep

XII 'Vrikshayurveda' firstly written by:

- (a) Surapala
- (c) Surhotra
- (b) Salihotra
- (d) None of these

XIII Sustainable Agriculture mainly protect and expand the:

- (a) Energy
- (c) Crop Production
- (b) Natural Resources
- (d) Chemical Resources

XIV 'Vrikshayurveda' is today also known as:

- (a) Floriculture
- (c) Sericulture
- (b) Permaculture
- (d) Horticulture

XV Old stone age is also known as:

- (a) Paleolithic age
- (c) Bronze Age
- (b) Neolithic Age
- (d) None of these

2. Answer in long (any three)

[10×3=30]

- I Write a detail note on sustainable agriculture.
- II Discuss in detail about the all ancient methods of Soil Management.
- III Define Indian Civilization? Also write down its importance.
- IV What do you understand by plant growth? Also write down the factors affecting of it.

3. Answer in short (any Six)

[5x6=30]

- I Write a short note on Runoff and Windbreaks.
- II Define the seed in brief.
- III What do you understand by reservoir & step well? Briefly define.
- IV Write down with botanical name of five medicinal plants.
- V What do you understand by crop rotation?
- VI Write down the concept of modern day sustainable agriculture.
- VII Briefly define about the development of human culture.

[2]

XI Multiplication of the plant is known as-

- (a) Fertigation
- (c) Propagation
- (b) Certification
- (d) None of these

XII Protective food called as -

- (a) Fruit
- (b) Vegetable
- (c) Spices
- (d) Both A&B

XIII The transfer of pollen grain from anther to stigma of the pistil is known as-

- (a) Pollination
- (c) Pollinizer
- (b) Pollinator
- (d) None of these

XIV Best method of irrigation in hilly orchard areas-

- (a) Drip irrigation
- (c) Basin system
- (b) Sprinkler method
- (d) All of above

XV Botanical name of mango is-

- (a) Mangifera indica
- (c) Carica papaya
- (b) Litchi chinensis
- (d) None of these

2. Answer in long (any three)

[10×3=30]

- I Define the term plant propagation. Write in details about their type, advantage & disadvantage of plant propagation.
- II Write in details planting system of an orchard along with their suitable diagram.
- III Describe the Kitchen Gardening?
- IV Write the different method of Training and Pruning?

3. Answer in short (any Six)

[5x6=30]

- I Explain the Plant Growth Regulators.
- II Differentiate between Fruit and Vegetable?
- III Write the any five fruit with botanical names.
- IV Describe the Parthenocarpy.
- V What is Fertilization? Write the different type of Fertilization.
- VI Write short notes on-
1) Horticulture & its branch 2) Agriculture & its Branches
- VII What is the difference between Medicinal and Aromatic plant?
- VIII Describe in detail Air Layering.

[2]

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Program Name B.Sc. Agriculture

1st Semester / 1st Year Examination

Subject Code: AG-102

Subject Name: Fundamental of Genetics

[Time :03:00 Hours]

[Max. Marks :75]

Note : 1. Attempt all the questions as per given instructions.

2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs) [01×15=15]

- I** The tendency of an offspring to resemble its parent is known as
a. Variation b. Heredity c. Resemblance d. Inheritance
- II** Who is known as the "Father of Genetics"?
a. Morgan b. Mendel c. Watson d. Bateson
- III** The alternate form of a gene is
a. Alternate type b. Recessive character
c. Dominant character d. Allele
- IV** The genotypic ratio of a monohybrid cross is
a. 1:2:1 b. 3:1 c. 2:1:1 d. 9:3:3:1
- V** The crossing of F₁ to any of the parent is known as
a. Test cross b. Back cross
c. F₁ cross d. All of the above
- VI** Homozygosity and heterozygosity of an individual can be determined by
a. Back cross b. Self-fertilization
c. Test cross d. All of the above
- VII** An exception to Mendel's law is
a. Independent assortment b. Linkage
c. Dominance d. Purity of gametes
- VIII** Pea plants were used in Mendel's experiments because
a. They were cheap b. They had contrasting characters
d. They were available easily d. All of the above
- IX** The smallest unit of genetic material which produces a phenotypic effect on mutation is
a. Mutton b. Gene c. Recon d. Nucleic acid

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B.Sc. Agriculture

Sem. I / 1st Year, Regular Examination

Subject: Comprehensive and Communication Skills in English

(Code: AG-108)

[Time : 03:00 Hours]

[Max. Marks : 75]

Note: 1. Attempt all the questions as per given instructions.

2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs) [01×15=15]

- I.** Orwell says that sport is an unfailing cause of.....
(a) ill-will (b) friendship
(c) enmity (d) brotherhood
- II.** Atomic bomb was dropped on Hiroshima by.....
(a) Germany (b) Russia (c) UK (d) America
- III.** "Spoken English and Broken English" is written by.....
(a) Shaw (b) Orwell
(c) Fosdick (d) Rudyard Kipling
- IV.** What is the suitable synonym of the word 'destroy'?
(a) fracture (b) mend (c) ruin (d) drinking
- V.** What is the most suitable antonym of 'attack'?
(a) defend (b) war (c) fighting (d) quarrel
- VI.** Homonyms have same spelling and pronunciation but different.....
(a) size (b) shape (c) meanings (d) None
- VII.** He went to Delhi to see Lal Qila. (article)
(a) an (b) the (c) a (d) None
- VIII.** I get up early the morning. (Preposition)
(a) to (b) on (c) at (d) in
- IX.** Although he is poor he is honest. (Conjunction)
(a) yet (b) and (c) (d) None
- X.** When you are giving interview, it may be taken by person.
(a) one (b) two
(c) more than two (d) all correct

[1]

- XI. I have been working on this project2022. (Preposition)
 (a) till (b) for (c) starting (d) since
- XII. All of the students were entering...the class room. (Preposition)
 (a) into (b) in (c) upon (d) under
- XIII. Synopsis is a planned project for the approval to do a
 (a) game (b) research (c) plan (d) None
- XIV. The word 'precis' means
 (a) abstract (b) abridgement
 (c) summary (d) all true
- XV. A paragraph is a Of sentences in specific order.
 (a) group (b) series
 (c) boss (d) a & b are correct
2. **Answer in long (any three).** [10×3=30]
- I. What is the message of the essay "A Dilemma – A Layman Looks at Science"?
- II. How will you write Curriculum Vitae?
- III. Write down the summary of the essay "War Minus Shooting – The Sporting Spirit".
- IV. How will you write your Report? (Don't write your name).
3. **Answer in short (any six).** [5x6=30]
- I. Write an application to your Dean for medical leave for five days. (Don't write your name).
- II. Write a letter to your father for some money as you live in the Hostel.(Don't write your name).
- III. How will you prepare yourself to appear in the interview for job?
- IV. Define Reading Comprehension.
- V. What do you know about Homonyms?
- VI. Write a note on the paragraph length in a piece of writing.
- VII. Discuss about the rules of effective writing.
- VIII. What are the rules for good precis writing?

[2]

- Mendel's findings were rediscovered by
 a. Correns b. De Vries c. Tschermak d. All
- Alleles are
 a. Alternate forms of genes b. Linked genes
- a. Chromosomes that have crossed over
 c. Homologous chromosomes
- II 9:7 ratio in the F₂ generation represents
 a. Incomplete dominance b. Co-dominance
 c. Epistasis d. Complementary interaction
- III Which term represents a pair of contrasting characters?
 a. Heterozygous b. Homozygous
 c. Codominant genes d. Allelomorphs
- IV Mendel used _____ for his experiments.
 a. Pisum sativum b. Pisum album
 c. Oryza sativa d. Oryza Orientalis
- XV Which of the following two traits is characteristic of a single gene?
 a. Seed colour and shape b. Flower colour and position
 c. Colour of flower and seed coat d. Height and colour of seed
2. **Answer in long (any three)** [10×3=30]
- I Give a brief account of Mendel's law of genetics with suitable examples.
- II Write the detailed note on Meiosis.
- III What is DNA? Describe the structure of DNA.
- IV Differentiate sex Linkage and Crossing over.
3. **Answer in short (any Six)** [5x6=30]
- I Write a short note on mutations.
- II Write a short note on mutagenic agents.
- III Describe the double helical structure of DNA?
- IV Explain the law of Dominance.
- V Describe the Law of segregation.
- VI Write short note on Law of independent Assortment.
- VII Write a short note on crossing over.
- VIII What is Test cross? Explain with example.

[2]

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B.Sc (Agriculture)

1st Year / 1st Sem Regular Examination

Introduction to Forestry

Subject Code: AG-106

[Time: - 3:00 Hours]

[Max. Marks: 75]

I Objectives Question: Answer All Question 15×1=15]

- IFRI located at
a. Dehradun b. New Delhi c. Ludhiana d. Karnal
- Head Quarter of FAO located at
A. Washington B. Brazil C. Rome D. India
- IFRI was made a deemed university in..... Year
a. 1992 b. 1991 c. 1993 d. 1994
- How much area covered in merchantable forest.....
A. 82 B. 88 C. 78 D. 75
- In 1923 shifting cultivation was first adopted in
A. Uttar Pradesh B. Madhya Pradesh
C. West Bengal D. Delhi
- Institute of Forest Productivity was established in Year
a. 1993 b. 1995 c. 1997 d. 1992
- Arid Forest Research Institute is located at.....
a. Jodhpur b. Jaipur c. Udaipur d. Dholpur
- AFRI located at
a. Jodhpur b. Jaipur c. Jamshedpur d. New Delhi
- WII located at
A. New Delhi B. Bhopal
C. Dehradun D. None of Above
- Who is the Union minister of MoEF
A. Bhupendra Yadav B. Bhupendra Singh Yadav
C. Bhupender Yadav D. Bhupendra Kumar Yadav
- Full form of KFRI
A. Kerala Forest Research Institute
B. Keral Forests Research Institute
C. Kerala Forest Research Institute
D. None of Above

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Program Name- B.Sc. (Agriculture)

1st Semester / 1st Year Examination

Subject Code- AG-111-B

Subject Name- Basic Agriculture-II

[Time : 03:00 Hours]

[Max. Marks : 75]

Note: 1. Attempt all the questions as per given instructions.

2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs) [01×15=15]

- Which fruit is called Bathroom fruit?
(a) Banana (b) Mango (c) Guava (d) Papaya
- Who called economics the "science of wealth"?
(a) Adam smith (b) Alfred Marshall
(c) L.C. Robbins (d) None of these
- Who was first discovered economics?
(a) Aristotle (b) Adam smith
(c) L.C. Robbins (d) J.M. Keynes
- Which edible part of Mango-
(a) Mesocarp (b) Endocarp
(c) A&B (d) None of these
- IIHR is located at-
(a) Delhi (b) Haryana (c) Bangalore (d) Shimla
- Who proposed kisan credit card?
(a) Yashwant Sinha (b) Nirmala Sitharaman.
(c) Charan Singh, (d) Vishwanath Pratap Singh
- Basmati Variety is-
(a) Rice (b) Wheat (c) Maize (d) Mustard
- King of fruit is-
(a) Banana (b) Litchi
(c) Mango (d) Guava
- Malus domestica is the botanical name of-
(a) Papaya (b) Banana (c) Apple (d) Mango

[1]

23/12/24

03/01/25

Who is the President of ICAR

- A Shivrav Singh Chauhan
C. Dr. Anil Kumar Pathak
- B. Dr. Trilochan Mohapatra
D. None of Above

IPIRTI affiliated from.....body

- A. CSIR B. ICAR C. ICFRE D. None of Above

IIIFM Located at

- A. Bhopal B. Karnal C. Jodhpur D. Jaipur

Tree height can be measure by

- A Shadow method
C Both A and B
- B. Single pole method
D. None of Above

Long Question: Answer Any Three [10×3=30]

Define the importance of Agro forestry in brief?

Define the procedure of the tree height measurement by single pole method?

How to measure the height by Shadow method?

Define Apiculture and discuss the objectives, advantages and disadvantages?

Define the home gardening and its importance in brief?

Short Question: Answer any Five [6×5=30]

Define artificial regeneration and discuss their objectives, advantages and disadvantages?

Define various branches of forestry?

Define the different methods of seed showing?

What is nursery and discuss the objectives and advantages of good nursery?

Define the Horti-Silviculture discuss the advantages and disadvantages of Horti-Silviculture?

Define the different resources of forestry.

Define Agri-silviculture and their Advantages?

Define the Aqua Silviculture and discuss their Advantages?

Describe the Dry and Moist Deciduous Forests with example?

Define the classifications of forests?

[2]

X Vitamin B₂ called is-

- (a) Thiamin (b) Riboflavin
(c) Niacin (d) None of these

XI Eggplant is called as-

- (a) Potato (b) Tomato
(c) Brinjal (d) Okra

XII Economics is the word of which language-

- (a) Greek (b) Latin (c) French (d) None of these

XIII Who is called the father of economics?

- (a) Adam smith (b) M.S. Swaminathan
(c) Norman Borlaug (d) None of these

XIV Pusa hybrid and Kisan hybrid variety is-

- (a) Rice (b) Wheat
(c) Sugarcane (d) Maize

XV Which fruit crop is called Apple of paradise?

- (a) Banana (b) Mango
(c) Guava (d) Papaya

2. **Answer in long (any three)** [10×3=30]

I What is Livestock? Write the importance of Livestock.

II Describe in detail of Crop Insurance.

III Define Retailing? Explain the type of Retailing.

IV Discuss about in detail Agricultural Cooperatives?

3. **Answer in short (any Six)** [5×6=30]

I What is Economics? Write the different type of economics.

II Write in details about cultivation of Mango in tabular form under following heads:

- 1) Botanical name & Family (2) Origin (3) Edible part
4) Distribution 5) Economics importance

III Write the Economics Importance of Brinjal.

IV What is the difference between Cow and Buffalo?

V Discuss about Four Stroke Engine and Two Stroke Engine.

VI Write short notes on: 1) Hey & silage

2) Animal Husbandry

VII Explain the importance of fodder crops.

VIII Describe Kisan credit card.

[2]

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Program Name- B.Sc. Agriculture
1st YEAR EXAMINATION/ 1st Semester
Subject Code BSA-108

Subject Name: Introductory Biology

[Time : 03:00 Hours]

[Max. Marks : 70]

Note : 1. Attempt all the questions as per given instructions.

I. Multiple Choice Questions (MCQs) [01×15=15]

- I The theory of natural selection was given by
(a) Lamarck (b) Alfred Wallace
(c) Charles Darwin (d) Oparin and Haldane.
- II The two kingdom Classification was given by
(a) C. Linnaeus (b) John Ray (c) Huxley (d) Whittaker
- III One of the first step in taxonomy is
(a) Identification (b) Description (c) Naming (d) Classification
- IV A taxon is
(a) a type of living organisms (b) a group of related species
(c) a group of related families (d) a taxonomic group of any ranking
- V Which of the following is an indicator of air pollution?
(a) *Mycorrhiza* (b) *Agaricus* (c) Lichens (d) Common mushrooms
- VI The natural system of Classification is based on
(a) morphology (b) evolutionary trend
(c) anatomy (d) all of the above
- VII Who proposed that the first form of the could have come from pre-existing non-living organic molecules?
(a) S.L. Miller (b) Oparin and Haldane
(c) Charles Darwin (d) Alfred Wallace
- VIII The first life originated
(a) on land (b) in air (c) in water (d) all of these
- IX What does a bacteria lack?
(a) endoplasmic reticulum (b) DNA (c) cell wall (d) cytoplasm
- X The force that initiates evolution is
(a) Variation (b) Mutation (c) Extinction (d) Adaptation
- XI According to Oparin, which one of the following was not present in the primitive atmosphere of the earth?
(a) Methane (b) Oxygen (c) Hydrogen (d) Water vapour
- XII Which of the following family has bisexual zygomorphic plants:
(a) Fabaceae (b) Solanaceae (c) Liliaceae (d) all of these

[1]

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Program: B. Sc Agriculture
1 YEAR/ 1 Sem Examination
Subject Code BSA-107

Subject Name: Introductory Agriculture

[Time: 03:00 Hours]

[Max. Marks: 70]

Note: 1. Attempt all the questions as per given instructions.

I. Multiple Choice Questions (MCQs) [01×15=15]

- I The NHB was set up in..... Year
A. 1999 B. 1984 C. 1985 D. 1986
- II The contribution of the government of India in NHM scheme
A. 80 % B. 70 % C. 60 % D. 85 %
- III CDB was established in Year
A.1981 B.1982 C.1983 D.1984
- IV CPB headquarter located at.....
A. Kerala B. M.P C.U.P D. None of Above
- V CIH located at
A. Nagaland B. Andhra Pradesh
C. Uttar Pradesh D. Madhya Pradesh
- VI CIH was established in Year
A. 2003-2004 B. 2001-2002
C. 2000-2001 D. 2005-2006
- VII At the time of Harvest of rose in green house temperature should be kept.....^oC
A. 24 B. 20 C18 D. 16
- VIII Who is citrus fruit
A. Lemon B. Mango C. Apple D. Banana
- IX Who is king of fruit
A. Lemon B. Mango C. Apple D. Banana
- X NHB head quarter located at
A. Delhi B. Kernel C. Jaipur D. Gurugram
- XI At the time of pre cooling of rose temperature should be.....kept in chamber
A. 8-100C B.5-70C C. 13-150C D. 16-190C
- XII At the time of cooling temperature in the cooling chamber should be kept in^oC
A. 0-2 B. 4-5 C. 3-4 D. None of Above

[1]

- XIII Inflorescence is usually a raceme in
 (a) Asteraceae (b) Euphorbiaceae
 (c) Musaceae (d) Fabaceae
- XIV Poaceae was formerly called
 (a) Compositae (b) Cruciferae
 (c) Papilionaceae (d) Gramineae
- XV In Fabaceae stamens are
 (a) Monadelphous (b) Diadelphous
 (c) Monadelphous or Diadelphous (d) Diadelphous or free
2. Answer in long (any three) [10×3=30]
 I Give a detailed account on seed germination.
 II Define cell. Give a comparative account on plant and animal cell.
 III What do you understand by nomenclature? Explain binomial nomenclature.
 IV Give an account on origin of life.
 V Write a detailed account on Poaceae.
3. Answer in short (Any five) [5×5=25]
 I What do you understand by Darwinism?
 II Mention any ten species of Angiosperm.
 III Differentiate monocotyledons and dicotyledons.
 IV Write a short note on Oparin – Haldane effect.
 V What do you mean by classification of living organisms?
 VI Draw a well labeled diagram of prokaryotic cell.
 VII Give a brief account on seed.

[2]

XIII PMKSY was launched in..... Year
 A. 2015 B. 2021 C. 2020 D. 2014

XIV The former name of CAD & WM was.....

A CAD B CDA C Both are correct D None of Above

XV How much DSP in CDB

A 9 B. 13 C 10 D. 8

2. Answer in long (any three) [10×3=30]

I Which schemes is there in horticulture?

II Describe the different operations in rose processing.

III What do you mean by different branches of agriculture in brief?

IV Explain the different by-products of rose in brief.

3. Answer in short (any five) [5×6=25]

I Describe the different value-added products of Jasmine.

II What is the soil fertility in brief

III What do mean by the PMKSY in brief.

IV Describe the watershed management program.

V Explain Horticultural crops and its importance in the Indian economy

VI What is the sprinkle and drip irrigation in brief.

VII Define the irrigation and their advantage and disadvantages.

[2]

IX Classification of wealth are....

- (a) One (b) Two (c) Three (d) Four

X Rural institutions include

- (a) Stock markets (b) Factories
(c) Panchayats (d) Urban councils

XI The study of society is called

- (a) Psychology (b) Sociology
(c) Anthropology (d) Geography

XII The main characteristic of society is

- (a) Technology (b) Isolation
(c) Social relationships (d) Wealth

XIII In India, the caste system is an example of:

- (a) Social stratification (b) Social mobility
(c) Class conflict (d) Cultural assimilation

XIV The average IQ of a person is

- (a) 80 (b) 120 (c) 100 (d) 140

XV IQ stands for

- (a) Intelligent Quotient (b) Intelligence Quotient
(c) Idea Quotient (d) Identity Quotient

2. Answer in long (any three) [10×3=30]

I Discuss about the major institutes of rural societies?

II Discuss about tradition of rural societies.?

III Write down importance and role of leader?

IV What is social stratification and also discuss the role in society?

3. Answer in short (any six) [5×6=30]

I What is the role of personality?

II What are the causes of stratification?

III What is urban society and rural society?

IV Discuss about the characteristics of urban societies?

V Discuss about the characteristics of rural societies?

VI What is culture and social values?

VII Role of extension education in rural area?

VIII Difference between sociology and rural sociology?

[2]

IX Classification of wealth are....

- (a) One (b) Two (c) Three (d) Four

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- (a) Stock markets (b) Factories
(c) Panchayats (d) Urban councils

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(c) Social relationships (d) Wealth

XIII In India, the caste system is an example of:

- (a) Social stratification (b) Social mobility
(c) Class conflict (d) Cultural assimilation

XIV The average IQ of a person is

- (a) 80 (b) 120 (c) 100 (d) 140

XV IQ stands for

- (a) Intelligent Quotient (b) Intelligence Quotient
(c) Idea Quotient (d) Identity Quotient

2. Answer in long (any three) [10×3=30]

I Discuss about the major institutes of rural societies?

II Discuss about tradition of rural societies.?

III Write down importance and role of leader?

IV What is social stratification and also discuss the role in society?

3. Answer in short (any six) [5×6=30]

I What is the role of personality?

II What are the causes of stratification?

III What is urban society and rural society?

IV Discuss about the characteristics of urban societies?

V Discuss about the characteristics of rural societies?

VI What is culture and social values?

VII Role of extension education in rural area?

VIII Difference between sociology and rural sociology?

[2]

Paper Code: AG-101

C (SVSU:2024-25/R)

Paper Code:BSA-101

B

(SVSU:2024-25/C)

Enrollment No.																			
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Program Name: B.Sc. Agriculture

1st Semester / 1st Year Examination

Subject Code: AG-101

Subject Name: Fundamental of Agronomy

[Time :03:00 Hours]

[Max. Marks :75]

Note : 1. Attempt all the questions as per given instructions.
2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I** Green revolution has been most successful in
a. Wheat-Rice b. Sugarcane-Potato
c. jowar-Bajra d. Wheat-Barley
- II** Cropping Intensity in India is about %.
a. 140 b. 100 c. 120 d. 160
- III** Advantage of Inter cropping.
a. All b. Higher benefit
c. Better resources use d. Reduce risk
- IV** method of irrigation is most suitable for arid conditions.
a. Drip b. Sprinkler
c. Check basin d. Flooding
- V** Who is the father of tillage?
a. Jethro Tull b. Pietro de Crescenzi
c. M.S. Swaminathan d. Masanobu Fukuoka
- VI** Which crop grown in Kharif season in India?
a. Bajra b. Chickpea c. Barley d. Mustard
- VII** Cultivation of two or more than two crops of different Height simultaneously on the same field is known as?
a. Multistoried Cropping b. Relay Cropping
c. Mixed Cropping d. Sequence Cropping
- VIII** Which of the following is biofertilizer?
a. Azotobacter b. FYM
c. green manure d. Compost
- IX** Seed rate is higher inmethod of sowing.
a. Broadcasting b. Transplanting
c. Drilling d. Dibbling

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Enrollment No.																			
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Program Name B.Sc.Agriculture

1st Semester / 1st Year Examination

Subject Code BSA-101

Subject Name: Fundamental of Agronomy

[Time : 03:00 Hours]

[Max. Marks : 70]

Note : 1. Attempt all the questions as per given instructions.

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I** The term "Agriculture" is derived from
a. Latin b. Greek c. Germany d. None of the These
- II** The term "Agronomy" is the combination of
a. Agros+Nomos b. Agros+Nomy
c. Agriculture+Nomy d. None of the These
- III** Agronomy is a synthesis of
a. Soil Science b. Crop Physiology
c. Plant Ecology d. All of the above
- IV** Agronomist aims to obtain maximum production at
a. Minimum cost b. Moderate cost
c. maximum cost d. None of the above
- V** Which gas is released from rice fields?
a. Methane b. Carbon di oxide
c. carbon monoxide d. All of the above
- VI** CPRI is situated in :
a. Simla, H.P. b. New Delhi c. Mumbai d. None of these
- VII** IARI is situated in
a. New Delhi b. Dehradun c. Solan d. Tamilnadu
- VIII** Consumption ratio for N: P: K is
a. 8:2:1 b. 15:20:1 c. 20:20:1 d. None of these
- IX** Size of the coarse sand is
a. 2 - 0.2 mm b. 5 - 0.5 mm c. 8 - 0.8 mm d. None of these
- X** Who is the father of tillage
a. Jetho Tull b. Fisher c. Benda d. None of these
- XI** _____ is the physical condition of soil resulting from tillage.
a. Tiltth b. Toolth. c. both a and b d. None of these
- XII** Primary tillage is called
a. Ploughing b. harrowing c. droughing d. None of these

[1]

- X** Father of Agronomy.
a. Pietro de Crescenzi b. Jethro Tull
c. Masanobu Fukuoka d. M.S. Swaminathan
- XI** Sulfosalfuron herbicide is commonly used in
a. Wheat b. Chickpea c. Sugarcane d. Mustard
- XII** Optimum sowing time for the most the winter (Rabi) crops.
a. October-November b. June-July
c. January-February d. April-May
- XIII** The managing weeds by combining biological, cultural, physical and chemical method.
a. IWM b. INM c. IDM d. IPM
- XIV** Field crops are intercropped with tree crops this system is called as.....
a. Agri-silviculture b. Silvi-pastoral
c. Agri-silvipastoral d. Horti/silvipastoral
- XV** Growing two or more crops on the same piece of land simultaneously with definite row pattern.
a. Intercropping b. Mixed cropping
c. Relay cropping d. Monocropping
- 2.** Answer in long (any three) [10×3=30]
I Describe the methods of weed control.
II Explain the crop Density and Crop Geometry.
III Explain the Mulch and fertilizers with examples.
IV Describe crop management technologies in problematic areas.

[5x6=30]

- Answer in short (any six)**
Classify harvesting and threshing.
Explain the what is weed. And its impact on plant.
Give the term of manure and fertilizers with example.
Write down the quality of irrigation water.
What is crop rotation? Define its Importance.
Explain culture method of weed control.
Write down the types of plant ideotypes.

[2]

- XIII** Irrigation is the
a. artificial application b. Natural application
c. both a and b d. None
- XIV** _____ is mainly responsible for the dark brown to dark grey colour of the soil.
a. Organic matter b. Inorganic matter
c. both a and b d. None of these
- XV** Secondary tillage is called .
a. harrowing b. Ploughing c. Tillring d. None of the these

2. Answer in long (any three) [10×3=30]

- I What is Agronomy? Explain the Scope of agronomy in agriculture.
II Write an essay on irrigation and its importance.
III What is weed management? Explain their principles and method.
IV What is sowing? Describe the Various type of sowing.

3. Answer in short (any five) [5x5=25]

- I What are the advantage of sprinkler method of irrigation? Explain it.
II What is irrigation ? describe it.
III Write a note on soil-water relationship.
IV Discuss the good quality seed characteristics.
V What is tillage? Explain it.
VI Explain different methods of establishment of crop.
VII Define the following terms (any three)
1. Weeding 2. Agriculture 3. Fertilizer 4. Gapfilling

[2]

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I** Colostrum must be fed within hours
(a) 48 hours (b) 72 hours (c) 24 hours (d) 7 days
- II** Colostrum is rich in
(a) Immunoglobulins (b) Fiber (c) Iron (d) None
- III** An alternative to surgical castration is
(a) Burdizzo method (b) Vaccination
(c) Branding (d) None
- IV** The surgical removal of testes is called
(a) Dehorning (b) Vaccination
(c) Branding (d) Castration
- V** Milk is an excellent source of
(a) Vitamin C (b) Calcium (c) Iron (d) Fiber
- VI** India is the largest producer of
(a) Wool (b) Pork (c) Milk (d) Beef
- VII** Dairy farming contributes to
(a) Urban development (b) Nutritional security
(c) Industrial growth (d) Environmental pollution
- VIII** Dehorning is typically done at
(a) Any age (b) Early age
(c) Old age (d) During lactation
- IX** A famous Indian dairy breed is
(a) Jersey (b) Gir (c) Angus (d) Holstein
- X** Which is an exotic dairy breed?
(a) Sahiwal (b) Jersey (c) Gir (d) Red Sindhi

[1]

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I** Which instrument is used to measure Ph.
A) Universal indicator B) Ph meter
C) Indicator strip D) All of these
- II** What is the full form of ICAR?
A) Indian council of Agriculture research B) Salinity research
C) Soil conservation D) All of these
- III** Name the types of soil structure?
A) Sandy loam B) Silty loam
C) Crumb D) All of these
- IV** Name the physical property of soil.
A) Soil texture B) Soil structure
C) Soil colour D) All of these
- V** How many types of weathering are there?
A) Physical weathering B) Chemical weathering
C) Biological weathering D) All of these
- VI** What is the range of soil Ph?
(A) 0-14 (B) 1 to 9 (C) A & B (D) None of these
- VII** Who said that soil is a natural body?
A) Randhawa B) Joffe 1949
C) Dokuchev D) All of the above
- VIII** Which is a primary mineral?
A) Pyrites B) Gypsum C) Granite D) All of these
- IX** What is the range of clay?
A) 2.0 mm B) 0.002mm
C) 0.002 to 0.02 D) All of these

[1]

- XI** Milk contains
a) Casein (b) Gluten (c) Starch (d) Fiber
- XII** Example of free goods are...
a) Air (b) Car (c) Bus (d) Train
- XIII** Mixed farming integrates
(a) Crop cultivation and livestock rearing (b) Urban farming
(c) Poultry and aquaculture (d) Industrial farming
- XIV** Specialized farming focuses on
(a) Multiple enterprises (b) A single enterprise
(c) Urban agriculture (d) Forest conservation
- XV** Colostrum is most essential for
(a) Adults (b) Newborns
(c) Lactating animals (d) Weaned calves
- 2. Answer in long (any three)** [10×3=30]
- I** Define animal breeding and also write the role in national economy?
- II** Write the any five important disease of farm animals?
- III** Discuss about the characteristic of any two buffalo breeds?
- IV** Discuss about scientific milking methods and their principles?
- 3. Answer in short (any six)** [5x6=30]
- I** What is difference between cow and buffalos?
- II** What is breeds and also give a suitable example of its?
- III** What is castration and also explain the importance in animal husbandry?
- IV** Discuss the important key of animal husbandry?
- V** Difference between specialized farming and mix farming?
- VI** What is mastitis?
- VII** Write in brief about the housing of dairy animals?
- VIII** What do you mean by milk fever?
- X** Soil is a part of
A) Land B) Landscape C) Rock D) All of these
- XI** Which instrument is used to measure Ph.
A) Universal indicator B) Ph meter
C) Indicator strip D) All of these
- XII** What is the full form of ICAR?
A) Indian council of Agriculture research B) Salinity research
C) Soil conservation D) All of these
- XIII** Name the types of soil texture
A) Sandy loam B) Silty loam
C) Crumb D) All of these
- XIV** Name the physical property of soil.
A) Soil texture B) Soil structure
C) Soil colour D) All of these
- XV** How many types of weathering are there?
A) Physical weathering B) Chemical weathering
C) Biological weathering D) All of these
- 2. Answer in long (any three)** [10×3=30]
- I** Write an essay on biological weathering?
- II** Explain formation of soil.
- III** What is soil texture and explain its types?
- IV** Write short not on Principal of -PH, Saline photometer & EC meter
- 3. Answer in short (any six)** [5x6=30]
- I** Define types of soil.
- II** What is soil profile? Explain it.
- III** What is physical weathering and its kinds.
- IV** Draw a soil profile diagram?
- V** Soil is a natural body. Explain it.
- VI** What is sodic soil? Explain it.
- VII** How to measure soil structure?

Printing Pages :2

Paper Code: AG-110B

02/01/25
B (SVSU:2024-25/R)

Enrollment No.																	
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Program: B. Sc Agriculture

I YEAR/ I Sem. EXAMINATION

Subject Code AG-110B

Subject Name: Basic Agriculture-I

[Time: 03:00 Hours]

[Max. Marks: 75]

Note: 1. Attempt all the questions as per given instructions.

2. Fill the correct answer of MCQs

1. Multiple Choice Questions (MCQs) [01×15=15]

I The NHB was set up in..... Year

A. 1999 B. 1984 C. 1985 D. 1986

II The contribution of the government of India in NHM scheme

A. 80 % B. 70 % C. 60 % D. 85 %

III CDB was established in Year

A.1981¹ B.1982 C.1983 D.1984¹

IV CDB headquarter located at.....

A. Kerala B M.P C.U.P D None of Above

V CIH located at

A. Nagaland B. Andhra Pradesh C.U.P. D. M. P.

VI CIH was established in Year

A. 2003-2004 B. 2001-2002
C 2000-2001 D. 2005-2006

VII At the time of Harvest of rose in green house temperature should be kept.....⁰C

A. 24 B. 20 C18 D. 16

VIII CDB Was established in

A. January 1981 B. March 1981
C. July 1981 D. January 1981

IX CDB head quarter located at

A. Kerala B. M.P C. U.P D. Rajasthan

X NHB head quarter located at

A. Delhi B. Kernel C. Jaipur D. Gurugram

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