

Printing Pages :2

Paper Code: AG-411

C (SVSU:2024-25/R)

Enrollment No.

Program Name: B.Sc. Agriculture
IV Semester / II Year Examination
Subject Code AG-411

Subject Name: Poultry Production & Management

[Time: 03:00 Hours]

[Max. Marks: 75]

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

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

- I What is the purpose of candling eggs during grading?
A) To check for cleanliness and appearance
B) To check for internal quality
C) To check for weight and size
D) To check for shell thickness
- II Which is the chemical that improves brain mental state after eating Chicken?
A) Serotonin B) Thyroid C) Insulin D) Dopamine
- III Who is the mother of Broiler Poultry Farming?
A) James Harbor B) Wilmer Steel
C) William Hanna D) Wilkinson
- IV Which of the following is not a characteristic feature of a broiler?
a) Generally, they are females b) Sold in fresh or frozen form
c) Grown for 6-7 weeks d) Also called as table birds
- V What is the name of the muscular tube that carries food from the crop to the gizzard?
A) Esophagus B) Proventriculus C) Gizzard D) Small intestine
- VI Which of the following is a common symptom of coccidiosis in poultry?
A) Diarrhea B) Coughing C) Sneezing D) Lameness
- VII Which of the following is not obtained by eating eggs?
a) Protein b) Lipid c) Carbohydrate d) Alcohol
- VIII Broiler Poultry Farming is mainly aimed at.
A) Eggs B) Meat C) Quails D) Animal or Bird Fat Oil
- IX What is the ideal temperature for hatching eggs?
A) 90–95-degree Fahrenheit B) 95-98- degree Fahrenheit
C) 99–102-degree Fahrenheit D) 101-103- degree Fahrenheit
- X Which of the following is not an exotic breed reared in India?
a) Rhode Island Red b) White leghorn
c) Plymouth Rock d) Ghagus
- XI Which of the following is NOT a common method of egg preservation?
A) Refrigeration B) Freezing C) Dehydrating D) Pasteurization

XII What is a domestic fowl?

- a) It lives in a particular region
- b) It is a foreign breed
- c) A bird kept for obtaining meat and eggs
- d) A specific bird kept for breeding purposes only

XIII What is the primary function of the crop in a chicken's digestive system?

- a) To store food temporarily
- b) To grind food into smaller particles
- c) To absorb nutrients from food
- d) To eliminate waste products

XIV White meat is low in ___?

- A) Carbohydrates
- B) Fat
- C) Calories
- D) None of the above

XV What is the main component of the eggshell?

- A) Calcium carbonate
- B) Protein
- C) Lipid
- D) Carbohydrate

[10×3=30]

2. Answer in long (any three)

- I** "Poultry farming has emerged as a vital component of India's agricultural sector." Discuss the importance of poultry farming in India's economy and society.
- II** Describe the different types of poultry housing systems, including their advantages and disadvantages. Which system would you recommend for a small-scale poultry farm?
- III** Discuss the process of egg formation in chickens, including the role of the ovary, oviduct, and shell gland.
- IV** Describe the importance of proper egg storage and handling practices in maintaining egg quality and safety. What are the key factors to consider when storing eggs?

3. Answer in short (any six)

[5×6=30]

- I** Discuss the effects of lighting scheduled on the growth, development and behavior of broilers & layers.
- II** Explain the importance of poultry farming in promoting food security and nutrition in India.
- III** Explain the structure and function of the egg white (albumen).
- IV** What is the primary purpose of egg grading? Discuss it.
- V** What is the most effective way to control external parasites such as mites and lice in poultry?
- VI** Write a short note on Marketing of poultry products.
- VII** What is the importance of vaccination programs in a poultry farm?

14/05/2025

Printing Pages : 2

Paper Code: AG-403

B

(SVSU:2024-25/R)

Enrollment No.

B.Sc. Agriculture

4THSemester / 2NDYear Examination

Subject Code- AG-403

Subject Name: Principles of Seed Technology

[Time : 03:00 Hours]

[Max. Marks : 75]

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

1. Objectives Question: Answer All Question [01×15=15]

- I The crop with lowest seed multiplication ratio is
A. Field pea B. Soybean C. Groundnut D. Coconut
- II The crop with highest seed multiplication ratio is
A. Field pea B. Soybean C. Groundnut D. Sesame
- III The progeny of nucleus seed is
A. Nucleus B. Foundation C. Certified D. Breeder
- IV The number of tiers involved in seed multiplication in India is a
A. One B. Five C. Six D. Three
- V The head quarter of PPV&FR is located at
A. Haryana B. Lucknow C. Banglore D. New Delhi
- VI Physical purity for certification of soybean
A. 93 % B. 20 % C. 40 % D. 99 %
- VII The colour of the tag of foundation seed
A. Blue B. Red C. Green D. White
- VIII The colour of Tag stitched on bag of breeder seed is
A. White B. Red C. Green D. Golden Yellow
- IX The highest seed replacement rate is of
A. A Synthetic B. A Composite
C. A Variety D. A Hybrid
- X Number of time seed may be multiplied from breeder to certified seed that is provide to farmer for production of food
A. One B. Five C. Six D. Three
- XI The colour of Tag stitched on bag of certified seed is
A. White B. Red C. Green D. Blue
- XII The leguminous crop with well developed endosperm
A. Fenugreek B. Rice C. Grain D. Soybean
- XIII Crop with liquid endosperm is
A. Fenugreek B. Rice C. Grain D. Coconut

XIV Which of the following is not a living part of a seed
A. Cotyledon B. Embryo
C. Aleurone layer D. Endosperm

XV NSC was established in
A. 1960 B. 1989 C. 1950 D. 1963

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

- I** Explain the seed production importance of cereals.
- II** Explain the seed production importance of pulses.
- III** Describe the deterioration of crop varieties.
- IV** Explain the genetic purity maintenance in hybrid seeds.

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

- I** Define the seed quality.
- II** Define the seed marketing.
- III** Define the variety identification through grow out test.
- IV** Define the seed production system in India.
- V** Who is source of seed contamination?
- VI** How to control of pest and rodents.
- VII** Write the policy initiatives in seed sectors.

Printing Pages :2

Paper Code: AG-407

B

(SVSU:2024-25/R)

Enrollment No.

Program Name-B.Sc.Agriculture

IV Semester / II Year Examination

Subject Code -AG-407

Subject Name -Production Technology for Ornamental
Crops,MAP,Landscaping

[Time :03:00Hours]

[Max. Marks :75]

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

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I The word "Anthos" meaning is.....
(a) golden (b) Flower (c) Petal (d) None of these
- II A symmetrical balance, also known as
(a) Informal balance (b) Formal balance (c) Curvy balance (d) None
- III National flower of India is.....
(a) Chrysanthemum (b) Rose (c) Lotus (d) Carnation
- IV Dusty is the variety of.....
(a) Chrysanthemum (b) Gerbera (c) Lilium (d) Carnation
- V Valentine is the cultivar of.....
(a) Gerbera (b) Rose (c) Gladiolus (d) Carnation
- VI Yellow Star is the cultivar of.....
(a) Chrysanthemum (b) Rose (c) Gladiolus (d) Carnation
- VII Flora is the variety of.....
(a) Gerbera (b) Rose (c) Gladiolus (d) Carnation
- VIII Pusa Muskan is the variety of rose released from.....
(a) IIHR (b) IARI (c) NDRI (d) IVRI
- IX Pusa Gaurav is the variety of rose released from.....
(a) IIHR (b) IARI (c) NDRI (d) IVRI
- X Pusa Komal is the variety of rose released from.....
(a) IIHR (b) IARI (c) NDRI (d) CPRI
- XI Arkakrishika is the variety of gerbera released from.....
(a) IIHR (b) IARI (c) NDRI (d) CPRI
- XII Gulkand is prepared from.....
(a) Chrysanthemum (b) Rose (c) Gladiolus (d) Carnation
- XIII Potpourii is prepared from.....
(a) Chrysanthemum (b) Rose (c) Gladiolus (d) Carnation
- XIV Rose garden is situated at.....
(a) Chandigarh (b) Delhi (c) Karnataka (d) Rajasthan

XV Amrit Udyan garden is situated at.....

- (a) Chandigarh (b) Delhi (c) Karnataka (d) Rajasthan

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

- I** Discuss about living and non-living components of landscape with suitable examples?
- II** Write down the basic principles of landscaping in detail?
- III** Write down the protected cultivation of chrysanthemum in detail?
- IV** Write down the insect management in rose?

3. Answer in short (any six) [5x6=30]

- I** What is importance of disbudding in chrysanthemum crop?
 - II** Discuss about the difference between climbers and creepers?
 - III** Write down the importance and scope of landscaping?
 - IV** Write down the importance of lawn in garden?
 - V** What is hedge and also discuss the importance of its?
 - VI** Write any five flowers botanical name with their family?
 - VII** What is importance of floral clock in garden?
 - VIII** Write down the name of any five important cultivar of gladiolus?
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Enrollment No.

Program Name: B.Sc Agriculture

II Year / IV Semester Year Examination

Subject Code: AG-409

Subject Name: Introductory Agro-meteorology and Climate Change

[Time :03:00 Hours]

[Max. Marks :75]

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

I. Multiple Choice Questions (MCQs)

[01×15=15]

(I) The term "climate change" refers to:

- a) Fluctuations in weather patterns over short periods of time
- b) Long-term shifts in temperature and weather patterns across the globe
- c) Changes in the Earth's orbit around the sun
- d) Variations in the intensity of solar radiation

(II) What is the main source of human-induced carbon dioxide emissions?

- a) Deforestation
- b) Volcanic eruptions
- c) Industrial processes
- d) Agricultural activities

(III) The phenomenon in which Earth's average temperature gradually increases due to human activities is known as:

- a) Global cooling
- b) Climate oscillation
- c) Global warming
- d) Weather anomaly

(IV) Shortwave radiation is responsible for:

- a) Heating the Earth's surface
- b) Cooling the Earth's surface
- c) Regulating the Earth's atmospheric pressure
- d) Generating wind patterns

(V) What is the typical time range for short-term weather forecasts?

- a) 1 to 3 days
- b) 1 to 2 weeks
- c) 1 to 3 months
- d) 6 months to 1 year

(VI) Which of the following is NOT a component of a weather forecast?

- a) Temperature
- b) Humidity
- c) Historical events
- d) Wind speed and direction

(VII) What is a cyclone?

- (a) A type of cloud formation
- (b) A large-scale atmospheric circulation system characterized by low pressure at its center
- (c) A type of tropical fruit
- (d) A geological formation found in deserts

(VIII) In which part of the world are tropical cyclones known as hurricanes?

- (a) Western Pacific Ocean
- (b) Indian Ocean
- (c) Atlantic Ocean
- (d) Southern Ocean

(IX) What is an anticyclone?

- (a) A type of cloud formation
- (b) A large-scale atmospheric circulation system characterized by high pressure at its center
- (c) A geological formation found in mountains
- (d) A type of tropical fruit

(X) Which of the following weather conditions is typically associated with an anticyclone?

a) Heavy rainfall b) Strong winds
c) Clear skies and calm weather d) Tornadoes

(XI) Which of the following is NOT a factor affecting crop growth and development in agrometeorology?

a) Temperature b) Humidity c) Soil pH d) Light

(XII) The study of weather and climate and their effects on agriculture is known as:

a) Agronomy b) Meteorology c) Agroecology d) Agrometeorology

(XIII) Which of the following is a common method used in agrometeorology to measure soil moisture?

a) Windsock b) Psychrometer c) Tensiometer d) All of these

(XIV) The science of measuring and analyzing the effects of weather on crops is termed as:

a) Agronomy b) Climatology c) Phenology d) Agrometeorology

(XV) Which of the following greenhouse gases is primarily responsible for the enhanced greenhouse effect?

a) Carbon dioxide (CO_2) b) Methane (CH_4)
c) Nitrous oxide (N_2O) d) Chlorofluorocarbons (CFCs)

Printing Pages : 2

Paper Code: AG-410

B

(SVSU:2024-25/R)

Enrollment No.

Program Name: B.Sc Agriculture

Sem/Year: IV/II

Subject Code: AG 410

Subject Name: Agri Informatics

Time : 03:00 Hours

Max. Marks : 75

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

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

- I** Which of the following is a second-generation computer characteristic?
 a) Vacuum tubes b) Transistors
 c) Integrated circuits d) Microprocessors
- II** Which company developed the Windows operating system?
 a) Apple b) IBM c) Microsoft d) Google
- III** Which of the following is NOT a core component of the World Wide Web?
 a) Web Browser b) Web Server
 c) Operating System d) Search Engine
- IV** Which crop model is developed by FAO to simulate crop response to water?
 a). APSIM b). AquaCrop c). DSSAT d). CROPWAT
- V** Which of the following is a smartphone app for pest and disease diagnosis?
 a). eNAM b). B. Plantix c). C. Pusa Krishi d). Kisan Suvidha
- VI** Which component of geospatial technology helps in mapping and spatial analysis?
 a). GPS b). GIS c). AI d). IoT
- VII** Which expert system is specifically designed for rice crop management in India?
 a). AGREX b). RICE-EXPERT c). POMI d). AgriBot
- VIII** What is the primary goal of Soil Information System (SIS)?
 a). Weather forecasting
 b). Online crop trading
 c). Soil data collection and management
 d). Pest control
- IX** Which programming paradigm is based on 'objects' and 'classes'?
 a). Functional b). Procedural
 c). Object-Oriented d). Query-based
- X** Which geospatial tool helps monitor vegetation health from satellites?
 a). GPS b). GIS c). Remote Sensing d). AI

XI Which of the following is not a web browser?

- a). Chrome b). Firefox c). Apache d). Safari

XII Who invented the World Wide Web (WWW)?

- a). Bill Gates b). Steve Jobs
c). Tim Berners-Lee d). Mark Zuckerberg

XIII Which programming language is best known for AI and Data Science applications?

- a) Java b) C++ c) Python d) PHP

XIV Who is considered the first computer programmer?

- a) Charles Babbage b) Alan Turing
c) Ada Lovelace d) Steve Jobs

XV Who invented the C++ programming language?

- a) Dennis Ritchie b) Bjarne Stroustrup
c) James Gosling d) Guido van Rossum

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

- I** Explain the role and components of a Soil Information System (SIS) in agriculture.
- II** Discuss the applications of geospatial technology in agriculture and its future prospects.
- III** Explain the significance of ICT and mobile applications in modern agriculture. Provide examples.
- IV** Explain the evolution of computers from early calculating devices to modern computers. Include key milestones and innovations.

3. Answer in short (any Six) [6×5=30]

- I** What is the purpose of a Decision Support System (DSS) in agriculture?
- II** Name any two popular smartphone apps used for agricultural advisory.
- III** Define Remote Sensing in the context of agriculture.
- IV** What is AquaCrop, and how does it work?
- V** What are low-level programming languages? Give an example.
- VI** Write any two benefits of computer-controlled devices in agriculture.
- VII** What does GIS stand for and how is it used in agriculture?
- VIII** What are the key functions of an Operating System (OS)?

Printing Pages :2

Paper Code: AG-401

B

(SVSU:2024-25/R)

Enrollment No.

B.Sc. Agriculture

IV Semester / 2nd Year Examination

Subject Code AG-401

Subject Name: Crop Production Technology-II (Rabi Crop)

[Time : 03:00 Hours]

[Max. Marks : 75]

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

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I** Which of the following is cereal rabi crop?
 (a) Wheat (b) Cotton (c) Sorghum (d) Rice
- II** Which of the following leading state in area and production of Pea?
 (a) U.P. (b) West Bengal (c) M.P. (d) Rajasthan
- III** Protein content in lentil is about-
 (a) 12-14% (b) 18-20% (c) 40-42% (d) 24-26%
- IV** Which of the following family of wheat?
 (a) Malvaceae (b) Leguminosae (c) Poaceae (d) Tilliaceae
- V** PBW & DBW are refer to which crop variety?
 (a) Sorghum (b) Wheat (c) Cotton (d) Rice
- VI** Pendimethalin is commonly used in:
 (a) Weed Management (b) Insect Management
 (c) Disease Management (d) None is these
- VII** Kent and Bunker are the varieties of:
 (a) Oats (b) Barley (c) Citronella (d) Lentil
- VIII** Chromosome no. of Sunflower:
 (a) $2n=34$ (b) $2n=14$ (c) $n=16$ (d) $n=24$
- IX** Sonalika is the variety of:
 (a) Rice (b) Sorghum (c) Wheat (d) Cotton
- X** 'Pusa Kalyani' is the variety of:
 (a) Rice (b) Cotton (c) Groundnut (d) Mustard
- XI** Family of Mustard:
 (a) Malvaceae (b) Poaceae (c) Leguminosae (d) Brassicaceae
- XII** Furrow and Flood is type of:
 (a) Tilth (b) Tillage (c) Paddling (d) Irrigation
- XIII** Glyphosate is a herbicide of which type:
 (a) Selective (b) Buffer (c) Non-selective (d) none of these

- XIV** DL-62; IPL-81 is the variety of:
(a) Groundnut (b) Cotton (c) Maize (d) Lentil
- XV** In this which one is not a rabi crop?
(a) Rice (b) Oats (c) Potato (d) Wheat
- 2. Answer in long (any three)** [10×3=30]
- I** Write down the cultivation of Barley.
- II** Explain the method of Wheat cultivation with their origin, economic importance and harvesting.
- III** Illustrate the different methods of irrigation.
- IV** Describe the cultivation practice of citronella.
- 3. Answer in short (any six)** [5x6=30]
- I** Write about Oats on following heads:
(a) Water management (b) Pest & Insect management
- II** Define the all basic steps during cultivation of crop.
- III** Discuss about crop growing practices of pea.
- IV** Describe seed and sowing methods with irrigation management in barseem and lentil.
- V** Write down the five varieties of mustard and chickpea.
- VI** Write a short note on field preparation method for the cultivation of rabi crops.
- VII** Write a short note on integrated weed management.
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Printing Pages : 2

Paper Code: AG-405

B (SVSU:2024-25/R)

Enrollment No.

Program Name: B.Sc. (Agriculture)

IV Semester / 2nd Year Examination

Subject Code: AG-405

Subject Name: Fundamental of Plant Biotechnology

[Time: 3 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) [1×15=15]

I Totipotency refers to _____.

- (a) Development of fruits from flowers in a culture
(b) Development of an organ from a cell in a culture medium
(c) Flowering in a culture medium (d) All of the above

II Haploid plants can be obtained from _____.

- (a) Anther culture (b) Bud culture (c) Leaf culture (d) Root culture

III Which technique is used to introduce genes into dicots?

- (a) electroporation (b) particle acceleration
(c) microinjection (d) Ti plasmid infection

IV Which marker is non PCR based?

- (a) RFLP (b) AFLP (c) SSR (d) RAPD

V Molecular scissors are

- (a) Restriction enzymes (b) DNA ligase
(c) polymerase (d) Topoisomerase

VI Cryopreservation is achieved by employing one of the following temperature range

- (a) Over solid carbon dioxide (at -790 C)
(b) Low-temperature deep freezers (at -800 C)
(c) In vapor phase nitrogen (at -1500 C)
(d) In liquid nitrogen (at -1960 C)

VII The pair of hormones required for a callus to differentiate are _____.

- (a) Ethylene and Auxin (b) Auxin and cytokinin
(c) Auxin and Absciscic acid (d) Cytokinin and gibberellin

VIII A GM crop is _____

- (a) mature crop (b) infected crop
(c) raised to green manure (d) transgenic crop

- IX Bt toxin is produced by a bacterium called _____**
 (a) *Bacillus thuringiensis* (b) *Bacillus anthracis*
 (c) *Bacillus thermophilus* (d) *Bacillus subtilis*
- X The process of plasmolysis in plant cell is defined as:**
 (a) Breakdown of plasma membrane in hypotonic solution.
 (b) Shrinkage of cytoplasm in hypertonic medium.
 (c) Shrinkage of Nucleoplasm. (d) None of these
- XI Virulence trait of *Agrobacterium tumefaciens* is borne on**
 (a) chromosomal DNA (b) tumour inducing plasmid DNA
 (c) both chromosomal and plasmid DNA (d) cryptic plasmid DNA
- XII What is the green revolution related to?**
 (a) Milk (b) Agriculture (c) Water (d) Animals
- XIII GMO stands for _____**
 (a) Genetically Matured Organisms (b) Genetically Mental Organs
 (c) Genetically Modified Organisms (d) Genetically Mutant Organism
- XIV Which polymerase is used in PCR**
 (a) Taq polymerase (b) RNA polymerase
 (c) DNA polymerase (d) None
- XV An example of abiotic stress is _____**
 (a) pest (b) insect (c) drought (d) vectors

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

- I** Write in detail about PCR (polymerase chain reaction).
II What do you understand by plant tissue culture and what are the various sterilization techniques used in it. Write its application in crop improvement.
III What are the molecular markers? Differentiate between RFLP and AFLP.
IV Explain in detail agrobacterium mediated gene transfer method.

3. Answer in short (any six) [5×6=30]

- I** What do you understand by vectors? Explain pBR322.
II Explain different direct methods of gene transfer.
III What are the synthetic seeds also write their significance.
IV Write short note on embryo rescue and its significance.
V Differentiate between somaclonal and gametoclonal variation.
VI What is somatic hybridization and cybrids?
VII What are the different biotechnological tools used in RDT?
VIII Define SSR markers?

Enrollment No.														
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Program Name- B.Sc. (Ag.)

4th Semester / 2nd Year Examination

Subject Code- AG-406

Subject Name- Renewable Energy and Green Technology

[Time : 03:00 Hours]

[Max. Marks : 75]

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

1. Multiple Choice Questions (MCQs)

[01×15=15]

- I Source of energy in the biosphere is
 - a) Producer
 - b) Decomposer
 - c) Sunlight
 - d) Heat of earth
- II Biomass is used in the production of
 - a) Fibres (b) chemicals (c) transportation fuels (d) biochemicals
- III The main constituent of biogas is
 - a) methane b) carbon dioxide c) hydrogen d) hydrogen sulphide
- IV This is also called a biogas
 - (a) biobutanol (b) biodiesel (c) bioethanol (d) biomethane
- V Biomass is useful to produce _____
 - (a) Chemicals (b) Fibres (c) Biochemicals (d) Transportation fuels
- VI Which of the following statement is true about conventional energy sources?
 - a) They cause minimum pollution
 - b) They are available in limited quantity
 - c) Coal is the most used conventional energy source in the world
 - d) All of these
- VII Which of the following forestry materials can be used as biomass?
 - a) Wood residues b) Tallow c) Fish oil d) Manure
- VIIIis called as the bio gas.
 - a) Bio ethanol b) Bio methane c) Bio diesel d) Bio butane
- IX Chemical formula of carbon monoxide?
 - (a) CO (b) CO₂ (c) Both a and b (d) None of these
- X Geothermal energy is a _____ resource?
 - (a) Renewable (b) thermophilic bacteria (c) Fungi (d) Plant
- XI What are advantages of sun drying?
 - (a) Economical and environmentally friendly
 - (b) Fast drying and environmentally friendly
 - (c) Environmentally friendly
 - (d) Economical

- XII** In sun drying and solar drying same?
 (a) True (b) false
 (c) Both a and b (d) None of these
- XIII** What are the modes of heat transfer employed in solar drying systems?
 (a) Radiation and convection (b) Conduction and convection
 (c) Conduction and radiation (d) Radiation and conduction
- XIV** What is the name of the zone in a solar pond where the highest salt concentration is found?
 (a) Upper convective zone (b) Non-convective zone
 (c) Heat storage zone, and (d) Lower convective zone
- XV** Which of the following is a component of tar?
 (a) Sodium (b) Benzene (c) Chlorine (d) Nickel

2. Answer in long (any three)

[10×3=30]

- I** Describe in detail with suitable diagram the fixed dome type biogas (gobargas) plant
- II** What do you understand by wind power? Write in detail about the windmill with a suitable diagram.
- III** Write an essay on Solar Energy gadgets.
- IV** Classify the sources of renewable energy and describe in detail the contribution of these sources in agriculture sector.

3. Answer in short (any Six)

[5×6=30]

- I** Write the advantages of the biogas plant?
- II** Write a short note on biomass gasifier?
- III** Explain the working of solar cooker with the help of labeled diagram
- IV** Differentiate between renewable energy sources and conventional energy sources?
- V** Write the Geothermal energy?
- VI** Write about on solar pond system?
- VII** Explain the solar distillation