

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE
B.Sc. (Hons.), Winter 2016 - 17 Examination

Semester: 1
Subject Code: 20101102
Subject Name: Introductory Agriculture

Date: 02/01/2017
Time: 2:00pm to 5:00pm
Total Marks: 60

Instructions

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section – A, section – B on separate answer sheets.

SECTION A**Q.1 Fill in the blanks. (Each of 0.50 marks) (10)**

1. Agro climatic zone in India is _____.
2. Agronomy is deriving from _____ word *agros* means _____ *nomas* means _____.
3. Cultivation in soil is known as _____.
4. The nature of surface earth (levelled or sloppy) is known as _____.
5. India's rank in fruits & vegetables production _____.
6. Response of plant to light direction is known as _____.
7. Cultivation in water is known as _____.
8. The range of temperature for maximum growth of most of the agriculture plants is between _____.
9. India's rank in milk production _____.
10. The science of marine fish and inland fishes including shrimps and prawns is called _____.
11. Agro climatic zone is Gujarat is _____.
12. Agricultural Statistics and English are belonging to _____ group.
13. India's position in world for total geographical area is _____.
14. Shifting cultivation is also known as _____ cultivation in Madhya Pradesh.
15. Plant breeding and genetics are belong to _____ group.
16. Wind movement for _____ per hour is suitable for more crops.
17. Plant pathology and Nematology are belonging to _____ group.
18. Soil may be acidic p^H _____, neutral p^H _____ saline and alkaline p^H _____.
19. A deep black soil range is _____.
20. Relative humidity of _____ % is suitable for most of the crop plant.

Q.2 Match group A with group B. (Each of 0.50 marks) (05)

- | A | B |
|----------------------|----------------------------|
| 1) Food grain | a) Tomato and Maize |
| 2) Phototropism | b) Tea, Coffee, coconut |
| 3) Day neutral plant | c) Sunflower |
| 4) Edaphic factor | d) Temperature |
| 5) Plantation crops | e) Rice, Wheat, Maize |
| 6) Climatic factor | f) Cotton, Jute, Sugarcane |
| 7) Biotic factor | g) Soil temperature |
| 8) Commercial crops | h) Plant & Animals |
| 9) Aero-ponic | i) Water |
| 10) Hydro-ponic | j) Air |

Q.3 Define the following. (Any ten) (05)

1. Drought
2. Dry farming
3. Crop production
4. Horticulture
5. Animal Husbandry
6. Advanced Farming
7. Precipitation
8. Soil reaction (pH)
9. Relative Humidity -RH
10. Desert soils
11. PAR
12. FSA

Q.4 Answer the following. (Any ten) (10)

1. Atmospheric gases on plant growth
2. Marine Agriculture
3. livestock farming

4. Objectives of FSA
5. NRCWA
6. Shifting Cultivation
7. Present Day Agriculture (21st Century)
8. Advantages of Groups
9. Kisan Mandal (Farmers Club)
10. Biotic factors affecting for crop production
11. Enlist external factor for crop production
12. Enlist soil group in India

SECTION B

Q.1 Multiple choice type questions. (Each of 0.50 mark)

(10)

1. In which farming system the principle of "Grow it and eat it" instead of growing crops on a commercial basis.
 - a) Shifting Cultivation
 - b) Mixed Farming
 - c) Subsidiary Farming
 - d) Subsistence Farming
2. Water is present in the atmosphere in the form of invisible water vapour, known as _____.
 - a) Soil moisture
 - b) Fogg
 - c) Humidity
 - d) temperature
3. Which gases released to atmosphere are toxic to plants _____.
 - a) SO₂, CO
 - b) N₂
 - c) O
 - d) None of these
4. Which is the example of Phototropism _____.
 - a) Sunflower
 - b) Tomato
 - c) Rose
 - d) Gerbera
5. Which range of Photo-synthetically Active Radiation is essential for production of carbohydrates and ultimately biomass _____.
 - a) 0.4 to 0.7μ
 - b) 0.4 to 0.5 μ
 - c) 0.5 to 0.6 μ
 - d) 0.6 to 0.6 μ
6. It utilizes all modern technologies developed on scientific principles such _____.
 - a) Crop improvement
 - b) Crop production
 - c) Crop protection
 - d) All of above
7. It is an important component for crop production and horticulture particularly to provide tools and implements is called _____.
 - a) Agricultural Engineering
 - b) Agricultural Meteorology
 - c) A & b
 - d) None of these
8. During _____, research and development (R&D) in fundamental and basic sciences were brought under applied aspects of agriculture.
 - a) 18th century
 - b) 17th century
 - c) 19th century
 - d) 21th century
9. Which is genetic factor of crop production _____.
 - a) High yielding ability
 - b) Early maturity
 - c) Resistance to lodging
 - d) All of above
10. How many % of GDP in Indian agriculture _____.
 - a) 27 %
 - b) 47 %
 - c) 37 %
 - d) 57 %
11. The arrangement of crops is done to get minimum requirement of light or air is called _____.
 - a) Light reduction
 - b) Geometry
 - c) Light intensity
 - d) None of these
12. The meaning of asset is _____.
 - a) Everything must balance
 - b) Debt or financial obligation owed
 - c) Anything owned
 - d) None of these
13. Sea weed is used for _____.
 - a) Fertilizer
 - b) Cosmetics
 - c) Animal feed
 - d) All of above
14. The meaning of liability is _____.
 - a) Everything must balance
 - b) Debt or financial obligation owed
 - c) Anything owned
 - d) None of these
15. _____ is an essential nutrient which is involved in all basic physiological functions of the body.
 - a) Water
 - b) Fibre
 - c) Salt
 - d) Sugar

