

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

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

Semester: 1

Subject Code: 20101101

Subject Name: Principle of Agronomy and Agriculture Meteorology

Date: 30/12/2016

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:-**

**(10)**

1. "Agriculture" is a \_\_\_\_\_ word.
2. Photo-periodically, rice is a type of \_\_\_\_\_ plant.
3. Growing sub-groups to maintain the yield of main crop are known as \_\_\_\_\_ .
4. Total geographical area in India is \_\_\_\_\_ Million hectare.
5. The tillage operation that are carried out in the standing crop are called \_\_\_\_\_.
6. Mixing of seeds and raising two-three crops at the same time and in the same field are known as \_\_\_\_\_.
7. Father of White Revolution \_\_\_\_\_.
8. Father of tillage \_\_\_\_\_.
9. Lighter or finer operation performed on the soil after primary tillage is known as \_\_\_\_\_.
10. White revolution is related to \_\_\_\_\_.
11. Growing hardy or thorny crops around the main crop are known as \_\_\_\_\_.
12. Agriculture is derived from the Latin words 'agar' or 'agri' means \_\_\_\_\_ and 'cultura' means \_\_\_\_\_.
13. Under Dry-land or limited irrigation, drought tolerant crops are \_\_\_\_\_.
14. Father of Green Revolution in India is \_\_\_\_\_.
15. Growing three crops per year in sequence are known as \_\_\_\_\_.
16. The line joining the places of equal rainfall is called \_\_\_\_\_.
17. Father of Green Revolution in World \_\_\_\_\_.
18. Tillage operations that are carried out from the time of harvest of a crop to the sowing of the next crop are known as \_\_\_\_\_.
19. The boundary zones along with two air masses meet are called as \_\_\_\_\_.
20. Low lying and flood prone areas, water stagnation tolerant crops are \_\_\_\_\_.

**Q.2 Match group A with group B. (each of 0.50 marks).**

**(05)**

| A                     | B                          |
|-----------------------|----------------------------|
| 1) Green Revolution   | a) Milk production (dairy) |
| 2) White Revolution   | b) Oilseeds production     |
| 3) Yellow Revolution  | c) Fish production         |
| 4) Blue Revolution    | d) Prawn production        |
| 5) Golden Revolution  | e) Food grain production   |
| 6) Gray Revolution    | f) Meat/Tomato production  |
| 7) Pink Revolution    | g) Fruit production        |
| 8) Red Revolution     | h) Potato production       |
| 9) Round Revolution   | i) Egg/poultry production  |
| 10) Silver Revolution | j) Fertilizer production   |

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

**(05)**

1. Ploughing
2. Mono-cropping
3. Dry Farming
4. Climatology
5. Hygrometer
6. Atmosphere
7. Stratus
8. Pudding
9. Organic Farming
10. Cloud
11. Anemometer
12. Guard crops

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

**(10)**

1. What is Sequential Cropping? Enlist its variations.
2. What is agriculture weather forecasting? Give its classification.
3. Characteristics of subsidiary crops mixed with the main crops.
4. Tools used in agriculture. ( any five)
5. Components of Organic Farming
6. What are Rain and its types?
7. Importance of wind in agriculture.
8. Write down the types of clouds and explain in brief.
9. Advantages of intercropping.
10. Write down the steps involved in development of agriculture.
11. Write down any four Agriculture revolution & revolution is related to for what?
12. What is precipitation & type of precipitation?

**SECTION B**

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

**(10)**

1. Green revolution has been most successful in
  - a) Wheat & potato
  - b) Tea & coffee
  - c) Wheat & rice
  - d) Barley & rice
2.  $P = \text{_____} + \text{DST} + \text{S}$ 
  - a) ST
  - b) RT
  - c) ET
  - d) XT
3. Mixed Forms of precipitation is
  - a) Snow
  - b) Hailstrom
  - c) Shower
  - d) Rain
4. DALR is stand for \_\_\_\_\_
  - a) Dry adiabatic lapse rate
  - b) Day adiabatic lapse rate
  - c) Dry air lapse rate
  - d) Day air lapse rate
5. Mixing of seeds and rising two – three crops at the same time & in same field.
  - a) Companion Crops
  - b) Mixed Crops
  - c) Guard crops
  - d) Augmenting crops
6. Growing three crops per year in sequence are known as \_\_\_\_\_
  - a) Double cropping
  - b) Quadruple cropping
  - c) Triple cropping
  - d) Relay cropping
7. Agronomy is derived from \_\_\_\_\_ word.
  - a) Greek
  - b) Latin
  - c) English
  - d) None of these
8. Inter crops are of \_\_\_\_\_ duration & are harvested much earlier than main.
  - a) Short
  - b) Long
  - c) Same
  - d) All of these
9. The isothermal layer marking the end of temperature decrease is called
  - a) Tropo-pause
  - b) Strato-pause
  - c) Thermo-pause
  - d) None of these

