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

	B.Sc. (Hons.), Winte	er 2016 - 17 Examination		
Semes	ter: 1		Date: 02/01/2017	
Subject Code: 20101102 Time: 2:00		Time: 2:00pm to 5	:00pm	
Subje	et Name: Introductory Agriculture		Total Marks: 60	
Instru	ctions			
	mont all quantions from each spation			
	mpt an questions from each section.			
2. Figu	ires to the right indicate full marks.			
3. Mal	te suitable assumptions wherever necessary.			
4. Wri	te section $- A$ , section $- B$ on separate answer she	eets.		
	SEC	TION A		
0.1	Fill in the blanks. (Each of 0.50 marks)			(10)
×	1 Agro climatic zone in India is			(=•)
	2 Agronomy is deriving from word a	aros means nomas m	Aang	
	2. Agronomy is deriving fromword <i>u</i>	gros means <u>nomas</u> m	calls	
	4. The network of conference of the length of the set			
	4. The nature of surface earth (levened of sloppy	) IS KHOWH as		
	5. India's rank in fruits & vegetables production	•		
	6. Response of plant to light direction is known a	LS		
	7. Cultivation in water is known as			
	8. The range of temperature for maximum growth	h of most of the agriculture plan	nts is between	
	9. India's rank in milk production			
	10. The science of marine fish and inland fishes i	including shrimps and prawns is	s called .	
	11. Agro climatic zone is Guiarat is			
	12 Agricultural Statistics and English are belong	zing to group		
	12. India's position in world for total geographic	al area is		
	14. Shifting sultivation is also known as	ai aica is	Dradach	
	14. Smithig cultivation is also known as		Pradesii.	
	15. Plant breeding and genetics are belong to	group.		
	16. Wind movement for per hour is su	itable for more crops.		
	17. Plant pathology and Nematology are belonging	ng to group.		
	18. Soil may be acidic p <sup>H</sup> , neutral p <sup>H</sup>	saline and alkaline p <sup>H</sup>	·	
	19. A deep black soil range is			
	20. Relative humidity of% is suital	ble for most of the crop plant.		
0.2	Match group A with group B. (Each of 0.50 m	arks)		(05)
	A	B		
	1) Food grain	a) Tomato and Maize		
	2) Phototronism	b) Tea Coffee coconut		
	2) Day neutral plant	c) Sunflower		
	4) Eduptic factor	d) Tamen anotana		
	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) Hydo-ponic	i) Air		
03	Define the following (Any ten)	<b>J</b> ) <b>1</b>		(05)
<b>X</b> ••	1 Drought			(00)
	2. Dry forming			
	2. Dry farming			
	5. Crop production			
	4. Horticulture			
	5. Animal Husbandry			
	6. Advanced Farming			
	7. Precipitation			
	8. Soil reaction (pH)			
	9 Relative Humidity -RH			
	10 Desert soils			
	11 DAD			
	11. I AIX 12. ESA			
<u> </u>				(10)
Q.4	Answer the following. (Any ten)			(10)
	1. Atmospheric gases on plant growth			
	2. Marine Agriculture			
	3. livestock farming			

- Objectives of FSA
  NRCWA

- 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 coil group in India
- 12. Enlist soil group in India

## **SECTION B**

Multiple choice type questions. (Each of 0.50 mark)				
<b>1.</b> In which farming system the principle of "Grow it and eat it" instead of growing crops on a				
commercial basis.				
a) Shifting Cultivation	c) Subsidiary Farming			
b) Mixed Farming	d) Subsistence Farming			
2. Water is present in the atmosphere in	the form of invisible water vapour, known as			
a) Soil moisture	c) Humidity			
b) Fogg	d) temperature			
3. Which gases released to atmosphere	are toxic to plants			
a) $SO_2$ , CO				
$D) N_2$	d) None of these			
4. Which is the example of Phototropism	n			
a) Sunflower	c) Rose			
b) Tomato	d) Gerbera			
5. Which range of Photo-synthetically A	Active Radiation is essential for production of			
carbonydrates and ultimately biomass	S			
a) 0.4 to 0. $/\mu$	c) $0.5$ to $0.6 \mu$			
b) 0.4 to 0.5 μ	d) 0.6 to 0.6 µ			
6. It utilizes all modern technologies dev	veloped on scientific principles such			
a) Crop improvement	c) Crop protection			
b) Crop production	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	c) A & b			
b) Agricultural Meteorology	d) None of these			
8. During, research and dev	elopment (R&D) in fundamental and basic sciences were			
brought under applied aspects of agriculture.				
a) 18 <sup>th</sup> century	c) 19 <sup>th</sup> century			
b) 17 <sup>th</sup> century	d) 21th century			
<b>9.</b> Which is genetic factor of crop produ	ction			
a) High yielding ability	c) Resistance to lodging			
<b>b</b> ) Early maturity	<b>d</b> ) All of above			
<b>10.</b> How many % of GDP in Indian agri	culture			
a) 27 %	c) 37 %			
b) 47 %	d) 57 %			
11. The arrangement of crops is done to	get minimum requirement of light or air is called			
a) Light reduction	c) Light intensity			
b) Geometry	d) None of these			
<b>12.</b> The meaning of asset is				
a) Everything must balance	c) Anything owned			
b) Debt or financial obligation owed	d) None of these			
<b>13.</b> Sea weed is used for				
a) Fertilizer	c) Animal feed			
b) Cosmetics	d) All of above			
<b>14.</b> The meaning of liability is	,			
a) Everything must balance	c) Anything owned			
b) Debt or financial obligation owed	d) None of these			
15. is an essential nutrient wh	hich is involved in all basic physiological functions of the			
body.	and a second second period beau randonomo or the			
a) Water	c) Salt			
b) Fibre	d) Sugar			
,				

	<b>16.</b> The term referring to both freshwater and marine farming of organisms is called		
	a) Aquaculture c) Horticulture		
	b) Agriculture d) Forestry		
	17. The soil receive 50 cm to less than 10 cm rainfall with high evaporation		
	a) Alluvial c) Laterites		
	b) Desert d) Black cotton soil		
	<b>18.</b> Areas which receive an annual rainfall of 750 mm or less and there is no irrigation facility for		
	raising crops is called		
	a) Dry lands c) Irrigated land		
	b) Rain-fed d) None of these		
	<b>19.</b> Which branch of agriculture including Spices Aromatic and Medicinal Plants and Plantation		
	Crops		
	a) Plant pathology c) Agronomy		
	b) Horticulture d) Entomology		
	<b>20.</b> It is an condition of insufficient moisture supply to the plants under which they fail to develop		
	and mature properly. If may be caused by soil, atmosphere or both is called		
	a) Water logging c) Drought		
	b) Stress d) None of these		
<b>Q.2</b>	Answer the following. True or false. (Each of 0.50 mark)	(05)	
C	1. The desert soil receives 50 cm to less than 10 cm rainfall with high evaporation.		
	2. Approximately 70% of animal body weight is water, it varies by species and body part.		
	3. Black soil is formed in arid region.		
	4. Nori & Kombu is Greek name of sea weed.		
	5. Scientific management of soil and crops under dry lands without irrigation is called Dry land		
	agriculture.		
	6. About 75 % people are living in rural areas and are still dependent on Agriculture.		
	7. First rank of India in Live Stock (castles, Buffaloes).		
	8. Dry lands areas which receive an annual rainfall 750 mm or less.		
	9. About 60 to 75 % of the rainfall is lost through evaporation.		
	10. Crop residues like wheat straw or cotton stalks etc., are left on the soil surface is called		
	Stubble mulch.		
0.3	Write short notes. (Any five)	(10)	
C	1. Agriculture as art, science and business of crop production & agriculture grouped in four		
	major categories		
	2. Climatic factor affecting for crop production.		
	3. Multi-Dimensional Role of Women.		
	4. Internal factors (Genetic factors) for crop production		
	5. Why are livestock important?		
	6. Write down different farming system.		
	7. Write down any five agriculture research centre and any five revolution for agriculture.		
0.4	Differentiate the following. (Any five)	(05)	
<b>x</b>	1. Subsistence Vs Commercial farming	()	
	2. Intensive Vs Extensive Farming		
	3. Mixed cropping Vs Mixed farming		
	4. SDP Vs LDP		
	5. Black soil Vs Red soil		
	6. Dry land Vs Rain-fed farming		

7. Soil mineral matter Vs Soil Organic matter