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1. Which one of the following factor establishes the importance of agricultur in the national economy?

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1. Higher per capita income of the people of the country
2. Higher shar of industrial sector in the GDP of the country
3. Higher percentage of agriculture dependent population in the country
2. A high percentage of cropped area in India is covered by rice cultivation because
1. Ther is adequate rainfall
 2. rice can be grown in different seasons
 3. A large par of the population of India is rice eating
 4. rice is adaptable to most types of land and agr climatic conditions
3. National Bureau of Soil Survey and Land Use Planning's concept of an agroecological zone is a land unit
1. Having similar soil climatic belts
 2. Having homogeneous agr climatic zone conditions for raising crops
 3. Having the required moisture availability index for raising crops
 4. Carved out of agr climatic zones when superimposed on land for and soil conditions to act as a modifier of the length of growing period
4. Which one of the following would lead to a change in the optimum combination of two enterprises substituting at an increasing rate?
1. A change in the prices of the inputs used and production possibility curve
 2. A change in the production possibility curve and prices of the enterprises
 3. A change in the prices of the enterprises and inputs used

4. A change in the prices of the inputs used
5. Match List I (Organizations) with List II (Functions) and select the correct answer:

List-I

1. WTO
2. LDB
3. NABArD
4. CACP

List-II

1. Agricultural prices
2. refinance
3. regulatory
4. Longter credit

A B C D

1. 4 1 3 2

2. 3 4 1 2

3. 3 4 2 1

4. 4 3 1 2

6. Consider the following steps:

1. Analyzing the factor or forces which ar responsible for the existing production patterns and resource use
2. Determining the extent to which the existing use of resources deviates from the optimum
3. Delineating means and methods for changing the existing use of resources to the optimum level
4. Determining and defining the conditions which provide for optimum use of resources

The proper sequence of these steps in the study of agricultural production economics is

1. 4, 2, 3, 1
 2. 1, 2, 4, 3
 3. 1, 4, 2, 3
 4. 2, 3, 1, 4
7. A farmer practices vegetable and crop cultivation. Given below are the marginal value productivities (MVP) of a unit of Rs. 1000 capital in each enterprise at varying levels of capital use. Capital can be acquired at 25 per cent rate of interest.

Unit of capital (No.)	MVP of capital in vegetable cultivation (Rs.)	MVP of capital in crop cultivation (Rs.)
I	Rs. 1500	Rs. 1700
II	Rs. 1450	Rs. 1600
III	Rs. 1400	Rs. 1500
IV	Rs. 1350	Rs. 1400
V	Rs. 1200	Rs. 1300
VI	Rs. 1150	Rs. 1200
VII	Rs. 1000	Rs. 1150

How much total capital can be most profitably used by the farmer?

1. Rs. 14000
2. Rs. 12000
3. Rs. 9000
4. Rs. 7000

8. Which one of the following formulae gives the correct measure of rate of capital turnover?
1. $(\text{Net Income}/\text{Total Far Assets}) \times 100$
 2. $(\text{Gross Income}/\text{Total Far Assets}) \times 100$
 3. $(\text{Far Business Income}/\text{Total Far Assets}) \times 100$
 4. $(\text{Capital Investment}/\text{Total Far Assets}) \times 100$

9. A linear programming simplex basic table is given below:

- C_1 500 250 00 0 0 X_3 5 11 1 00 0 X_4 48 12 40 1 00 X_5 150 10 50 00 1
- Z_1 0 00 0 0
- $Z_1--0 - 00 0 0$

Which one of the following sets of alternatives indicates the correct combination of the incoming and outgoing activities? Activity Incoming Outgoing

1. $X_1 X_3$
 2. $X_2 X_4$
 3. $X_2 X_5$
 4. $X_1 X_4$
10. Consider the following statements: Zero-sed budgeting lays emphasis on
1. Unlimited deficit financing
 2. Preparing new budget from scratch
 3. Preparing the budget neglecting the histor of expenditure

Which of the above statements are correct?

1. 2 and 3
2. 1 and 2
3. 1 and 3
4. 1, 2 and 3

11. Given the production functions: $0.25 X_1^{0.75} X_2^{0.75} Y = 30X_1 X_2$, Where $Y =$ output $X_1 =$ input factor 1 & $X_2 =$ input factor 2 The nature of returns of scale will be
1. Increasing
 2. Decreasing
 3. Constant
 4. Fluctuating
12. The net profit in cooperative joint farming is distributed among the member on the basis of which one of the following principles?
1. Equal amount for each member
 2. In proportion to the share money of the members
 3. In proportion to the total hour of work provided by the member
 4. In proportion to the area pooled by the member
13. Which one of the following activities is a complementary programme of agriculture?
1. Agro-irrigation
 2. Agro-mechanization
 3. Agro-processing
 4. Agro-materials control
14. Which one of the following is the main obstacle to introducing an identical farming system throughout the country?
1. Composition of the farming community
 2. Combination of cultivated crops
 3. Land tenure system
 4. Agro-climatic conditions
15. Groundnut originated in
1. Brazil

2. South Africa
 3. Australia
 4. Mexico
16. The cohesiveness and tenderness of cooked rice depend largely on the
1. Proportion of amylase and protein
 2. Percentage of amyl pectin
 3. Percentage of protein
 4. Proportion of amylase and amyl pectin
17. The bacteria responsible for stem nodulation in some legumes is
1. rhizovium sp.
 2. Brady rhizobium sp.
 3. Azo-izobium sp.
 4. Non-izobium sp.
18. Consider the following statements: The response of phosphate fertilizer in acidic soil under lowland ecosystem is better when applied in the for of
1. Water soluble phosphate
 2. rock Phosphate
 3. Any P-ntaining fertilizer
 4. Citrate soluble phosphate

Which of the above statements are correct?

1. 1 and 3
2. 2 and 4
3. 3 and 4
4. 1 and 2

19. Which one of the following resources will continue to play the pivotal role in crop production activity to meet the challenging demand of food, fibre and fuel for exploding human population, fodder for animals, and industrial raw material for agro-based industries in the country?

1. Natural
2. Organic
3. Chemical
4. Artificial

20. Match List I (Operation) with List II (Crop) and select the correct answer:

List-I

List-II

1. retting
2. Puddling
3. Shelling
4. Earthing up

1. Flax
2. rice
3. Sugarcane
4. Ground nut

A B C D

1. 1 2 3 4

2. 2 1 4 3

3. 1 2 4 3

4. 2 1 3 4

21. Use of high analysis fertilizer which minimize inadvertent addition of micronutrients

1. Causes toxicities of micronutrients in soils and plants
 2. Increases availability of micronutrients in soils and plants
 3. Leads to deficiencies of micronutrients in soils and plants
 4. Immobilizes micronutrients in soils and plants
22. When a concept is outlined as interdisciplinary, holistic or interactive and is simultaneous in approach from different angles, hopefully resulting in farmer-adaptable and farmer-oriented technology in a shorter time span, it is termed as
1. Farming system research
 2. Cropping system research
 3. Cropping pattern
 4. Multiple cropping
23. Par grass is ideally suited for
1. Arid climate
 2. Semiarid climate
 3. Subhumid climate
 4. Humid climate
24. Irrigation requirement (hectare-cm) of autumn (aus) rice is
1. Requirement 50
 2. Requirement 100
 3. Requirement 150
 4. Requirement 200
25. Irrigation water becomes toxic for most of the crops, when the boron concentration is
1. Concentration 0.5 ppm
 2. Concentration 1.0 ppm
 3. Concentration 1.5 ppm

4. Concentration Above 2 ppm
26. Irrigation water rich in bicarbonate content leaves a higher proportion of
1. Sodium to divalent cations in the soil solution
 2. Calcium to other divalent cations in the soil solution
 3. Magnesium to other divalent cations in the soil solution
 4. Potassium to divalent cations in the soil solution
27. Match List I (Herbicide) with List II (Origin/use) and select the correct answer:

List-I

1. Bialophos
2. Methoxyphenone
3. Paraquat
4. Linuron

List-II

1. Synthetic derivative of the microbial toxin anisomycin
2. Naturally occurring herbicide
3. Selective herbicide
4. Non-selective herbicide

A B C D

1. 1 2 3 4

2. 2 4 1 3

3. 2 1 4 3

4. 3 1 4 2

28. Crop rotations is a sequential cropping of different crops over a piece of land in a

1. Pre-planned manner of succession of crops
 2. Post-planned manner of crop arrangement
 3. Modified way during the implementation of crop cultivation
 4. Planned manner of resource utilization
29. Consider the following statements: Yield advantage in an intercropping system is due to the development of
1. Temporal complementarity's
 2. Spatial complementarity's
 3. Competitive relationship

Which of the above statements are correct?

1. 1 and 2
 2. 2 and 3
 3. 1 and 3
 4. 1, 2 and 3
30. The approach of additive series of intercropping means
1. Some specified population of a component is replaced by the same population of another component
 2. Having the full population of main crop and accommodation of some population of other crops
 3. Sowing intercrop three to four weeks after sowing the main crop
 4. The system of growing arable crops in the alleys of trees

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