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**Ph.D. Course Work Examination October-2021
Geography (Paper – III)**

RECENT TRENDS IN AGRICULTURAL GEOGRAPHY (New)

Day & Date: Wednesday, 13-10-2021
Time: 11.00 AM to 02.00 PM

Max. Marks: 100

Instructions: 1) All questions are compulsory.
2) All questions carry equal marks.

- Q.1** a) Define agricultural geography and explain it's nature. **10**
b) **Answer any two of the following questions.** **10**
1) Explain scope of agricultural geography.
2) Discuss the approaches to agricultural geography.
3) Give the concept of general land use.
- Q.2** a) Explain physical determinants of the agricultural pattern. **10**
b) **Answer any two of the following questions.** **10**
1) Discuss the irrigation as non physical determinants of agriculture.
2) Describe the South Asian Genecentre of agriculture
3) Describe South American Genecentre of agriculture.
- Q.3** a) What is intensive farming? Describe it's world distribution and characteristics. **10**
b) **Answer any two of the following questions.** **10**
1) Explain concept of agricultural productivity.
2) Describe characteristics of plantation agriculture.
3) Explain concept of land capability.
- Q.4** a) Explain Von Thunen's model of agricultural landuse. **10**
b) **Answer any two of the following questions.** **10**
1) Explain techniques to determine agricultural productivity.
2) Discuss the concept of crop concentration.
3) Explain concept of Crop combination.
- Q.5** a) Discuss the problems of agricultural in India. **10**
b) **Answer any two of the following questions.** **10**
1) Define primary data and give the methods primary data collection.
2) Explain random sampling techniques.
3) Explain concept of crop diversification with the formula.

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Ph.D. Course Work Examination October-2021
Economics (Paper – III)
MODERN THEORIES IN ECONOMICS (Old)

Day & Date: Wednesday, 13-10-2021
 Time: 11.00 AM to 02.00 PM

Max. Marks: 100

सूचना : 1) सर्व प्रश्न आवश्यक आहेत.

2) उजवीकडील अंक पुर्ण गुण दर्शवितात.

- प्र. 1 अ) आर्थिक वृद्धीच्या सोलो प्रतिमानाचे परीक्षण करा. 10
 ब) कोणत्याही दोन प्रश्नांची उत्तरे लिहा. 10
 1) रामसे नियमाचे वर्णन करा.
 2) हरोड प्रतिमानाचे वर्णन करा.
 3) ए. के. प्रतिमानावर टिप्पणी करा.
- प्र.2 अ) मक्तेदारीयुक्त स्पर्धा बाजारपेठ विषयक चेंबर्लीन चा समतोल विषयक दृष्टीकोन स्पष्ट करा. 10
 ब) कोणत्याही दोन प्रश्नांची उत्तरे लिहा. 10
 1) अल्पाधिकारातील किंमत नेतृत्व प्रतिमानाची चर्चा करा.
 2) बत्रांड अल्पाधिकार प्रतिमान स्पष्ट करा.
 3) अल्पाधिकाराच्या एजवर्ध प्रतिमानाचे वर्णन करा.
- प्र.3 अ) फ्रांको मोडोगीलिनी किंमत निश्चिती प्रतिमानाचे मूल्यमापन करा. 10
 ब) कोणत्याही दोन प्रश्नांची उत्तरे लिहा. 10
 1) हॉल हीच अहवालावर टिप्पणी करा.
 2) बेन्स च्या किंमत मर्यादा सिद्धांताचे मूल्यमापन करा.
 3) संपूर्ण खर्च किंमत नियम स्पष्ट करा.
- प्र.4 अ) IS-LM विश्लेषणाचे मूल्यमापन करा. 10
 ब) कोणत्याही दोन प्रश्नांची उत्तरे लिहा. 10
 1) विदेशी व्यापार गुणांकाचे वर्णन करा.
 2) स्थिर विनिमय दराचे वर्णन करा.
 3) व्यवहार तोलाच्या मौद्रिक दृष्टीकोनाचे वर्णन करा.
- प्र.5 अ) मुंडेल फ्लेमिंग प्रतिमानाचे परीक्षण करा. 10
 ब) कोणत्याही दोन प्रश्नांची उत्तरे लिहा. 10
 1) लवचिक विनिमय दरावर टिप्पणी करा.
 2) खुल्या अर्थव्यवस्थेतील राजकोषीय धोरणाचे वर्णन करा.
 3) खुल्या अर्थव्यवस्थेतील मौद्रिक धोरणाचे वर्णन करा.

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Ph.D. Course Work Examination October-2021
Economics (Paper – III)
MODERN THEORIES IN ECONOMICS (Old)

Day & Date: Wednesday, 13-10-2021
 Time: 11.00 AM to 02.00 PM

Max. Marks: 100

Instructions: 1) All questions are compulsory.
 2) All questions carry equal marks.

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|------------|----|--|-----------|
| Q.1 | a) | Examine the Sollow model of economic growth. | 10 |
| | b) | Answer any two of the following questions in short. | 10 |
| | | 1) Elucidate the Ramsay's rule. | |
| | | 2) Describe the Harrod model of growth. | |
| | | 3) Comment on A K Model. | |
| Q.2 | a) | Explain the Chamberlin's approach towards equilibrium under monopolistic competitive market. | 10 |
| | b) | Answer any two of the following questions in short. | 10 |
| | | 1) Discuss on Price leadership model of oligopoly. | |
| | | 2) Elaborate the Bertrand model of oligopoly. | |
| | | 3) Describe the Edgeworth model of oligopoly. | |
| Q.3 | a) | Appraise the Franco Modighiani model of pricing. | 10 |
| | b) | Answer any two of the following questions in short. | 10 |
| | | 1) Comment on Hall and Hitch report. | |
| | | 2) Elucidate the Bain's limit pricing theory. | |
| | | 3) Explain the full cost pricing rule. | |
| Q.4 | a) | Evaluate the IS-LM analysis for an open economy. | 10 |
| | b) | Answer any two of the following questions in short. | 10 |
| | | 1) Elucidate the Foreign trade multiplier. | |
| | | 2) Elaborate the Fixed exchange rates. | |
| | | 3) Describe the Monetary approach to the balance of payments. | |
| Q.5 | a) | Examine the Mundell-Fleming Model. | 10 |
| | b) | Answer any two of the following questions in short. | 10 |
| | | 1) Comment on the flexible exchange rates. | |
| | | 2) Elucidate the Fiscal policy in the open economy. | |
| | | 3) Discuss on the Monetary policy in the open economy. | |

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Ph.D. Course Work Examination October-2021
Economics (Paper – III)
ECONOMICS OF AGRICULTURE AND CO- OPERATION (New)

Day & Date: Wednesday, 13-10-2021
 Time: 11.00 AM to 02.00 PM

Max. Marks: 100

Instructions: 1) All questions are compulsory.
 2) All questions carry equal marks.

- Q.1** a) Describe the relationship between agriculture and economic development. **10**
 b) **Write short answer. (Any Two)** **10**
 1) Technology in agriculture
 2) Organic Farming
 3) Cooperative credit in agriculture
- Q.2** a) Define Production Function. Explain its use in the study of agriculture economics. **10**
 b) **Write short answer. (Any Two)** **10**
 1) Contract Farming
 2) Agro-industries
 3) Globalization and cooperatives
- Q.3** a) Define Sustainable Development. Explain it's significance in the context of agriculture. **10**
 b) **Write short answer. (Any Two)** **10**
 1) Non-institutional sources of agriculture credit
 2) Agriculture Productivity
 3) Sugar cooperatives in Maharashtra
- Q.4** a) What are the specific problems of agro-based industries in India? **10**
 b) **Write short answer. (Any Two)** **10**
 1) Optimum output combination
 2) Dry land farming
 3) Floriculture
- Q.5** a) Explain the various principles of cooperation. **10**
 b) **Write short answer. (Any Two)** **10**
 1) NABARD
 2) Agriculture Inputs
 3) Food Security

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Ph.D. Course Work Examination October-2021
Political Science (Paper – III)
MODERN TRENDS IN POLITICS

Day & Date: Wednesday, 13-10-2021
 Time: 11.00 AM to 02.00 PM

Max. Marks: 100

सूचना : 1) सर्व प्रश्न आवश्यक आहेत.

2) उजवीकडील अंक पुर्ण गुण दर्शवितात.

- प्र. 1 अ) भारतातील बहुजन राजकारणाचे स्वरूप आणि व्याप्ती स्पष्ट करा. 10
 ब) लघुत्तरी प्रश्न (कोणतेही दोन) 10
 1) नागरी समाजाचे स्वरूप
 2) दक्षिणी देशांचे राजकारण : राज्याचा पॅटर्न
 3) जागतिकीकरणाच्या काळात आंतरराष्ट्रीय राजकारणाचे बदलते स्वरूप
- प्र.2 अ) नागरी समाजाची भुमिका स्पष्ट करा. 10
 ब) लघुत्तरी प्रश्न (कोणतेही दोन) 10
 1) आंतरराष्ट्रीय राजकारणाचा अर्थ
 2) बहुजन राजकारणाच्या मर्यादा
 3) जागतिकीकरण युगातील सामाजिक क्लीवेज (1990–2010)
- प्र.3 अ) भारतातील राज्याचे राजकारण लिहा. 10
 ब) लघुत्तरी प्रश्न (कोणतेही दोन) 10
 1) जागतिकीकरणाच्या युगातील राज्याच्या राजकारणाचे बदलते स्वरूप
 2) जागतिकीकरण युगातील मार्केट आणि भारतीय राज्यसंस्था
 3) समकालीन युगातील अस्मितांचे राजकारण
- प्र.4 अ) शीतयुद्धानंतरच्या आंतरराष्ट्रीय राजकारणाचे बदलते स्वरूप स्पष्ट करा. 10
 ब) लघुत्तरी प्रश्न (कोणतेही दोन) 10
 1) आधुनिक युगातील सामाजिक क्लीवेज (1960–1990)
 2) दक्षिणी देशांचे राजकारण : राष्ट्र उभारणीचे पॅटर्न
 3) भारतीय राज्याची राजकीय संस्कृती
- प्र.5 अ) भारत आणि जागतिक राजकारण स्पष्ट करा. 10
 ब) लघुत्तरी प्रश्न (कोणतेही दोन) 10
 1) अस्मिता आणि राज्याचे राजकारण
 2) जागतिकीकरणाच्या युगापूर्वीचे मार्केट आणि भारतीय राज्यसंस्था
 3) जागतिकीकरणाच्या युगापूर्वीचे राज्याचे राजकारण

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Ph.D. Course Work Examination October-2021
Political Science (Paper – III)
MODERN TRENDS IN POLITICS

Day & Date: Wednesday, 13-10-2021
Time: 11.00 AM to 02.00 PM

Max. Marks: 100

Instructions: 1) All questions are compulsory.
2) All questions carry equal marks.

- Q.1** a) Explain the nature and scope of Bahujan Politics in India. **10**
b) **Write short answer. (Any Two)** **10**
1) Nature of Civil Society
2) Politics of Southern Countries: Pattern of State
3) The Changing nature of International Politics in the Globalization era
- Q.2** a) Explain the role of Civil Society. **10**
b) **Write short answer. (Any Two)** **10**
1) Meaning of International Politics
2) Limitations of Bahujan Politics
3) Social Cleavages in the Globalization era (1990- 2010)
- Q.3** a) Write the State Politics in India. **10**
b) **Write short answer. (Any Two)** **10**
1) Changing Nature of State Politics in the Globalization era
2) Market and Indian State in the Globalization era
3) Identity Politics in Contemporary era
- Q.4** a) Explain the Changing nature of International Politics in the post cold war era. **10**
b) **Write short answer. (Any Two)** **10**
1) Social Cleavages in the Modern era (1960- 1990)
2) Politics of Southern Countries : Patterns of Nation Building
3) The Political Culture of the Indian State
- Q.5** a) Explain the India and world Politics. **10**
b) **Write short answer. (Any Two)** **10**
1) Identity and State Politics
2) Market and Indian State before Globalization era
3) State Politics before Globalization era

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Ph.D. Course Work Examination October-2021
Mechanical Engineering (Paper – III)
MODERN TOPICS IN MECHANICAL ENGINEERING FROM
PERFORMANCE IMPROVEMENT PERSPECTIVE (Old)

Day & Date: Wednesday, 13-10-2021
 Time: 11.00 AM to 02.00 PM

Max. Marks: 100

Instructions: 1) All questions are compulsory.
 2) All questions carry equal marks.
 3) Support the answers by neat sketches wherever necessary.

- Q.1** a) Explain general considerations for a good design. **10**
 b) **Answer any two questions.** **10**
 1) Explain economics of quality with example.
 2) Explain QFD steps in detail.
 3) Write a note on Do's and Don'ts of Six Sigma.
- Q.2** a) Explain QFD in Service industry with suitable examples. **10**
 b) **Answer any two questions.** **10**
 1) Explain Kano model of quality with suitable examples.
 2) Explain DMAIC process.
 3) Mr. Vinod has got the business of printing visiting cards. Each order is considered as a unit. Each order has four defect opportunities i.e. incorrect, typo, damaged or incomplete. Fifty orders have been randomly selected and inspected. Out of the fifty orders, six orders have a problem, and there are a total seven defects out of fifty orders that have been sampled. Calculate defects per million opportunity (DPMO).
- Q.3** a) Explain concept of Design Optimization. Explain optimization design of any Mechanical system. **10**
 b) **Answer any two questions.** **10**
 1) Explain Robust Design in details with suitable example.
 2) Write a note on Design Parameters.
 3) What is portfolio design? Explain in detail.
- Q.4** a) State the Statistical Process control techniques. Explain any two techniques in detail. **10**
 b) **Answer any two questions.** **10**
 1) Explain process capability with suitable examples.
 2) Write a note on Control of Product during inspection & disposal of rejected products.
 3) Write an appreciation of six sigma efforts at
 i) Ford
 ii) GE
- Q.5** a) Analyze how the following are built into ISO 9001 standard **10**
 1) Customer satisfaction
 2) Process Approach
 3) Employee Involvement
 4) Continuous improvement

b) Answer any two questions.

10

- 1) Explain ISO 9001 implementation and certification process.
- 2) What is six sigma? Explain the difference between TQM and Six Sigma.
- 3) Explain Pareto chart and run chart.