COMBINED COMPETITIVE EXAMINATION (MAIN)

GENERAL STUDIES

Paper–II

Time : 3 Hours   *Full Marks* : 200

Note : (1) *The figures in the right-hand margin indicate full marks for the questions.*

(2) *Answer the questions following the given instructions strictly.*

(Indian Economy)

1. Answer any *one* of the following questions :   10

    (a) Discuss the causes of the slow growth of national income in India. Suggest measures to enhance national income in future.

    (b) What are the major causes of low agricultural productivity in India? What measures would you suggest to raise agricultural productivity?

    (c) How is the Indian tourism industry expected to grow and what is the role and contribution of historical monuments in this sector?

2. Answer any *one* of the following questions :   7

    (a) What are the main causes of deficits in India's Balance of Payments? What measures would you suggest to address this problem?

    (b) What is the meaning of 'Green Revolution' and what are its main components? Narrate the experiences gained from the implementation of Green Revolution strategy in India.

3. Answer any *three* of the following questions :   5×3=15

    (a) Discuss the composition and direction of India's foreign trade since 1991.

    (b) What are the basic characteristics of an underdeveloped economy?

    (c) Give a brief account of the economic conditions that prevailed in India during the colonial rule.

    (d) How does reverse repo rate impact the common people?

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(e) Distinguish between economic growth and economic development. Which of the two is more relevant for the less-developed countries and why?

4. Answer any *two* of the following questions : 4×2=8

(a) "India is a developing underdeveloped economy." Comment.

(b) Explain why the monsoon is so important for Indian economy.

(c) How can 'Sarva Shiksha Abhiyan (SSA)' contribute to the Indian economy?

(d) Critically examine the impact of rapid population growth on India's economic development.

(Indian Geography)

1. Write on any *one* of the following : 10

(a) Major natural resources of India

(b) Koppen's scheme of classification of climate

2. Answer any *one* of the following questions : 7

(a) How have caste and religion contributed to social evolution in larger context in India? Answer giving examples.

(b) What are the major physiographic regions prevalent in Indian subcontinent?

3. Answer any *three* of the following questions : 5×3=15

(a) Why is India still underdeveloped socio-economically?

(b) What are the physical and agricultural regions with reference to regional geography prevalent in India?

(c) Give an account of the political boundaries of India.

(d) How can India be described as a strategically located zone in the context of South Asia?

4. Write notes on any *two* of the following : 4×2=8

(a) Forest types of India

(b) Demographic distribution in Northeast India

(c) Industries and factors contributing to industrial setup in India

(d) Coal resources of India

(Geography of Arunachal Pradesh and its Economy)

1. Answer any *one* of the following questions :   10

    (a) What are the major agricultural produce of Arunachal Pradesh? Relate them to different climatic zones prevalent in the State.

    (b) Describe, in detail, the river systems of Arunachal Pradesh and add a note on the natural disaster associated with the rivers.

    (c) What significance does Arunachal Pradesh has in being located in the mega-biodiversity hotspot? How can this be sustainably exploited for economic upliftment of the region?

2. Answer any *one* of the following questions :   7

    (a) What are various agricultural practices prevalent in Arunachal Pradesh? How has Jhumming affected the agricultural and soil sustainability in the State?

    (b) "The ethnic cultural practices have immensely contributed to conservation of natural resources." Justify the statement with reference to Arunachal Pradesh.

3. Write briefly on any *three* of the following :   5×3=15

    (a) Major tribes of Arunachal Pradesh

    (b) Soil types of Arunachal Pradesh

    (c) Industrial growth in Arunachal Pradesh and related difficulties

    (d) International trade and geographical location of Arunachal Pradesh

    (e) Road and communication development in Arunachal Pradesh

4. Write notes on any *two* of the following :   4×2=8

    (a) Floriculture and its prospects in Arunachal Pradesh

    (b) Water resources of Arunachal Pradesh

    (c) Factors contributing to floods in Arunachal Pradesh

    (d) Market and distribution of commercial produce of Arunachal Pradesh

(Science and Technology)

1. Explain any *three* with reasons :   4×3=12

    (a) Why is there a strong draught of wind when a house is on fire?

(b) Why are small gaps left between subsequent railway tracks?

(c) Why do electric power lines sag during summer days?

(d) Why are animals in the darkness of caves generally blind?

2. What do we mean by 'Black Hole'?   4

or

What are 'Higgs boson'?

3. What is meant by 'Genetic Engineering'?   4

or

What is a radioactive element?

4. Answer any *two* of the following questions briefly :   5×2=10

(a) What is environmental remediation and how are the organisms used in environmental bioremediation?

(b) Write briefly of cloning used for crop productivity.

(c) What are chloroflurocarbons? How have they contributed to ozone depletion?

(d) What is meant by 'Green Chemistry' and how does it impact our environment?

5. Answer any *two* of the following questions :   5×2=10

(a) What is PSLV? What is the difference between PSLV and GSLV and what are they used for?

(b) What are genetically modified crops and what is the present status of such crops in Indian scenario?

(c) What is the role of ICAR in agricultural sector in India? What are its mandated activities and how has it contributed to Indian agriculture development?
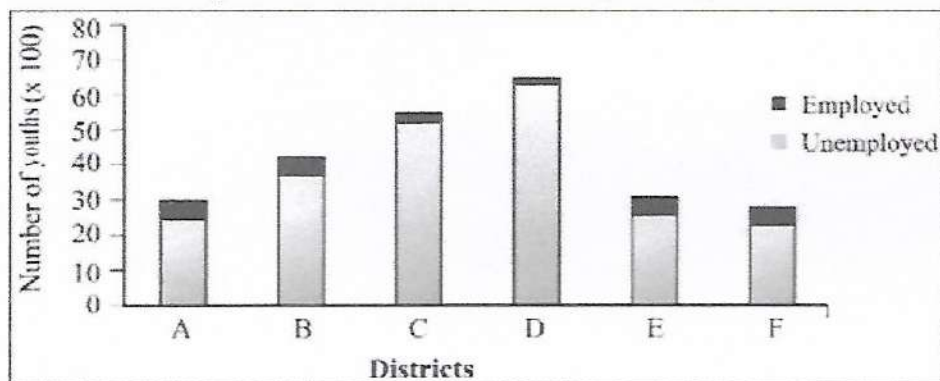
(Statistical Analysis, Graphs and Diagrams)

1. What is a radar chart? Write on its utility giving examples.   4

2. What is the difference among mean, median and mode? Illustrate with examples.   4

3. Derive standard deviation and standard error for the following data pertaining to number of children per family in a district :   6

Number of children	Number of family
1–3	200
3–6	154
6–9	82
9–12	13
12–15	1

4. Answer the following on the basis of the bar diagrams given below :   3×4=12

(a) In how many districts do the number of youths exceed 5000?

(b) What are the percentage distribution of employed and unemployed youths in districts A, E and F?

(c) What is the percentage of districts having total unemployed more than 4000?

(d) Which two districts have the higher percentage of employed youths and what percentages are they?

5. On the basis of the data shown in the table below, draw a scatter diagram. Calculate the equation of the regression line of y on x and draw it on your scatter diagram.   2+4+2=8

Variable	1	2	3	4	5	6	7	8	9	10
x	40	10	100	110	120	150	20	90	80	130
y	56	62	195	330	94	270	48	196	214	286

6. What is normal probability distribution? Describe the properties of normal distribution and its application.   2+2+2=6

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