



GEOGRAPHY

Test-3

DTVF
OPT-23 **G-2303**

Time Allowed: Three Hours

Maximum Marks : 250

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instruction carefully before attempting questions:

*There are **EIGHT** questions divided in **TWO SECTIONS** which are printed in **ENGLISH**.*

*Candidate has to attempt **FIVE** questions in all.*

*Questions no. **1** and **5** are compulsory and out of the remaining, any **THREE** are to be attempted choosing at least **ONE** from each section.*

The number of marks carried by a question/part is indicated against it.

Answers must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of this Question-cum-Answer (Q.C.A.) Booklet in the space provided. No marks will be given for answers written in a medium other than the authorized one.

Word limit in questions, wherever specified, should be adhered to.

Illustrate your answers with suitable sketches/maps and diagrams, wherever considered necessary. These shall be drawn in the space provided for answering the question itself.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

मूल्यांकन की पद्धति

प्रिय अभ्यर्थियों,

आपकी उत्तर-पुस्तिकाओं का मूल्यांकन करते हुए परीक्षक-समूह के सदस्य निम्नलिखित निर्देशों का ध्यान रखते हैं। आप भी इन्हें ध्यान से पढ़ें ताकि आप अपने प्राप्तांकों का तार्किक कारण समझ सकें।

परीक्षकों के लिये निर्देश

1. मूल्यांकन में अंकों का वही स्तर रखा जाना चाहिये जैसा संघ लोक सेवा आयोग (UPSC) के परीक्षकों द्वारा रखा जाता है।
2. सामान्य अध्ययन का जो उत्तर हर दृष्टिकोण से सटीक व उत्कृष्ट है; उसे अधिकतम 60% अंक दिये जाने चाहिये क्योंकि आयोग द्वारा किये जाने वाले मूल्यांकन में भी इससे अधिक अंक मिलना लगभग असंभव है। वैकल्पिक विषयों के उत्कृष्ट उत्तरों तथा श्रेष्ठतम निबंधों में अधिकतम 70% तक अंक दिये जा सकते हैं।
3. कृपया अंकों का वितरण निम्नलिखित तालिका के अनुसार करें-

उत्तर का स्तर (Standards of Answer)	सामान्य अध्ययन में अंक-स्तर (Marks Standard G.S.)	वैकल्पिक विषय तथा निबंध में अंक-स्तर (Marks Standard - Optional Subject and Essay)
उत्कृष्ट (Excellent)	51-60%	61-70%
बहुत अच्छा (Very Good)	41-50%	51-60%
अच्छा (Good)	31-40%	41-50%
औसत (Average)	21-30%	31-40%
कमजोर (Poor)	0-20%	0-30%

4. कृपया उत्तर में निम्नलिखित गुणों को विशेष प्रोत्साहन दें-
 - प्रश्न की सटीक समझ व उत्तर की व्यवस्थित रूपरेखा
 - संक्षिप्त, टूट-पूट-पॉइंट लेखन शैली
 - प्रामाणिक तथ्यों का समुचित उपयोग
 - अधिकतम ज़रूरी बिंदुओं का समावेश
 - सरकारी दस्तावेजों (मंत्रालयों/आयोगों की रिपोर्ट्स, पॉलिसी पेपर्स आदि) के संदर्भों की चर्चा
 - प्रभावी भूमिका व निष्कर्ष
 - समकालीन घटनाओं/प्रसंगों को उत्तर से जोड़ना
 - दृष्टिकोण में संतुलन, समावेशन व गहराई
 - अच्छी, साफ-सुथरी हैंडराइटिंग
 - भाषा में प्रवाह
 - आवश्यकतानुसार डायग्राम्स, नक्शों आदि का प्रयोग
 - तकनीकी शब्दावली का सटीक उपयोग
 - सुंदर प्रस्तुति शैली (छोटे पैराग्राफ्स रखना, महत्वपूर्ण शब्दों को अंडरलाइन करना आदि)
 - विराम चिह्नों का समुचित प्रयोग
 - भाषा में वर्तनी व व्याकरण की शुद्धता
5. टॉपर्स के अनुभव बताते हैं कि उत्तर की विषयवस्तु अच्छी होने पर आयोग के परीक्षक शब्द-सीमा के थोड़े बहुत उल्लंघन पर अंक नहीं काटते हैं। कृपया आप भी इसी दृष्टिकोण के अनुसार अंक-निर्धारण करें।

Method of Evaluation

Dear Candidates,

While assessing your answer-scripts, the evaluators are required to follow the given instructions. You should also read them carefully to understand the logic behind the marks obtained by you in the tests.

Instructions for the Evaluators

1. The level of marks while evaluating the answers should be kept as per UPSC (Union Public Service Commission) standards as far as possible.
2. The answers of General Studies which are accurate and excellent from every perspective should be awarded a maximum of 60% marks as it is almost impossible to get more than that in actual UPSC examination. Excellent answers in optional subjects and the best written essays can be awarded a maximum of 70% marks.
3. Please assign the marks according to the following table-

4. Please devote special attention to the following qualities in an answer-
 - Accurate understanding of the question and systematic presentation of the answer
 - Crisp and to the point writing style
 - Adequate use of authentic facts
 - Inclusion of all the important points
 - Citing of relevant facts and figures from relevant official documents (Ministries /Commissions Reports, Policy Papers etc.)
 - Effective introduction and conclusion
 - Linking of current events and situations with the answer
 - Balance and depth in answer-writing
 - Legible and clean handwriting
 - Flow of language
 - Use of diagrams, maps etc
 - Precise use of technical terminology
 - Beautiful presentation style (small paragraphs, underlining important words etc.)
 - Proper use of punctuations
 - Correct spellings and right use of grammar
5. Experience of UPSC toppers also indicates that if the content of the answer is good, the UPSC examiners do not cut the marks on slight violations of the word-limit. Please award marks strictly according to the above-mentioned instructions.

SECTION - A

1. Answer the following in about 150 words each:

10 × 5 = 50

- (a) Give a critical account of the collision-coalescence process of precipitation.
 - (b) Write a brief note on modifications to air masses.
 - (c) Discuss the formation of airmass thunderstorms.
 - (d) Write a short note on horizontal distribution of pressure belts.
 - (e) Write a short note on the pseudo monsoon.
2. (a) Examine the concept of humidity and compare specific and relative humidity. Analyse why the relative humidity is one of the most important parameter in explaining the types of instability. 20
 - (b) Write a brief note on tricellular meridional circulation of the atmosphere and its significance to the global climate. 15
 - (c) Establish the interrelationship between the monsoon and the pollution level in various metropolises in India. 15
3. (a) What do you mean by “inversion of temperature”. Give an account of the types and impacts of inversion of temperature. 20
 - (b) Examine the different approaches to the classification of climate. 15
 - (c) Discuss the formation of tropical cyclones and explain the weather conditions associated with their formation. 15
4. (a) Discuss the concept of the jet stream and explain the index cycles. 20
 - (b) Give an account of Koppen’s classification of the world’s climate and mention its merits and demerits. 15
 - (c) Any changes to the Earth’s climate system, alter Earth’s radiative equilibrium. Discuss. 15

SECTION - B

5. Answer the following in about 150 words each:

10 × 5 = 50

- (a) Write a short note on characteristics of Cs types of climates.
- (b) Discuss the role of the Indian Ocean dipole in the complex mechanism of monsoon.
- (c) Give an account of the mechanism of fronts and frontogenesis.
- (d) Explain the origin of temperate cyclones and highlight their effects on the weather.
- (e) Write a brief note on solar insolation.

6. (a) Describe the factors that affects the distribution and variation of temperature on the earth's surface. 20
- (b) What do you mean by "potential evapotranspiration" and what is potential evapotranspiration is used for? 15
- (c) Discuss the development of local winds and, with suitable examples, bring out the impact of local winds on the climate of an area. 15
7. (a) Explain the major techniques and applications of cloud seeding and discuss its usefulness for India. 20
- (b) Give an account of Trewartha's classification of the world's climate. 15
- (c) Explain the process of condensation and describe its various forms. 15
8. (a) Examine the effects of the cryosphere on the global climate. 20
- (b) Explain the origin and mechanism of the progress of the Indian monsoon. 15
- (c) Discuss the role of Arab and Greek thinkers in the field of climatology. 15