

GU-RET 2016

GAUHATI UNIVERSITY RESEARCH ELIGIBILITY TEST

GEOGRAPHY

Booklet Series : **(B)**

Invigilator's Name and Signature

BOOKLET NO.

OMR SHEET NO.

ROLL NO.

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TIME : 2 HOURS 20 MINUTES

TOTAL MARKS : 80

Number of Pages in this Booklet : 20

Instructions for Candidates

1. Write your Roll No. and OMR Sheet No. in the boxes provided above.
2. This paper consists of two sections : **Section B** with 50 (fifty) multiple choice questions (MCQ) and **Section C** with ten (ten) descriptive questions. Each MCQ has 4 (four) answers, out of which **ONLY** one is correct. You have to darken the circle (on the OMR Sheet) for the correct answer corresponding to the question given in this booklet.

Example : (A) (B) (C) (D)

where (C) is the correct answer. No marks will be given for markings made in this booklet. The descriptive questions in **Section C**, **MUST** be answered in the space provided in this booklet. **No extra pages will be provided in any case.**

3. Use a **BLACK** ball point pen in your OMR Sheet.
4. Read the instructions given inside this booklet before attempting to answer any questions.
5. **DO NOT** write your name, roll no, phone no, or anything, or put any marks anywhere in this booklet, otherwise your candidature will be disqualified.
6. If you are found to resort to any kind of unfair means such as carrying extra material other than pen, pencil, watch, eraser, and scale, or copying from somebody or from external material, your candidature will be disqualified.
7. Use of mobile phones, calculators, log tables or any other tables, wearable smart devices such as smart Android watches or objects of similar nature **CAN NOT** be used inside the examination hall.
8. At the end of the examination, you have to return this booklet and the OMR Sheet back to the invigilator.
9. There is no negative marks for incorrect answer.

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Section B (50 Marks)

1. Who proposed 'Intervening Opportunity Model' of human migration?
 - (A) Ravenstein
 - (B) Stauffer
 - (C) Zipf
 - (D) Reilly
2. Which one of the following coefficients is related to correlation?
 - (A) Coefficient of Determination
 - (B) Coefficient of Skewness
 - (C) Coefficient of Variation
 - (D) Gini's Coefficient
3. Who proposed the concept of 'Living Space'?
 - (A) David Harvey
 - (B) H. H. Barrow
 - (C) Friedrich Ratzel
 - (D) Vidal de la Blache
4. Convectional rain occurs in
 - (A) Sub-tropical region
 - (B) Equatorial region
 - (C) Temperate region
 - (D) Forest region
5. Which one of the following statements is NOT correct?
 - (A) Af = Tropical Rainforest
 - (B) Aw = Tropical savanna
 - (C) Am = Tropical monsoon
 - (D) Ad = Tropical desert
6. Which is the correct sequence of four Indian states in descending order of population size as per 2011 Census?
 - (A) Uttar Pradesh-Maharashtra-Bihar-West Bengal
 - (B) Uttar Pradesh-Bihar-Maharashtra-West Bengal
 - (C) Uttar Pradesh-West Bengal-Bihar-Maharashtra
 - (D) Uttar Pradesh-West Bengal-Maharashtra-Bihar
7. Who among the following geographers advocated for 'Welfare Approach' in Human Geography?
 - (A) Bunge
 - (B) Hartshorne
 - (C) Smith
 - (D) Haggett
8. 'Silent trade' is carried on between the
 - (A) Bhutias and Lepchas
 - (B) Pygmies and Negroes
 - (C) Sakais and Semangs
 - (D) Bantus and Hottentots
9. The 'Ribbon Pattern' of rural settlement is called
 - (A) Nebular village
 - (B) Star-like village
 - (C) Semi-circular village
 - (D) Street village
10. Which one of the following statements is NOT correct?
 - (A) About two-third of India's population is dependent on agriculture
 - (B) The contribution of agriculture to the total GDP of India is around 30 per cent
 - (C) About 65 per cent of India's population lives in rural areas
 - (D) The contribution of service sector to India's total GDP is higher than that of agriculture sector
11. The concept of 'Megalopolis' was given by
 - (A) Gottmann
 - (B) Geddes
 - (C) Jefferson
 - (D) Zipf
12. Which one of the following matches is correct?
 - (A) Growth Pole - Friedman
 - (B) Core-Periphery Model - Francois
 - (C) Cultural Hearth - Ratzel
 - (D) Mental Map - Lynch

13. "Imperialism is responsible for destructive economy or robber economy". This statement is associated with
- Positivism
 - Humanism
 - Radicalism
 - Welfare approach
14. Which one of the following approaches developed as a reaction to Quantitative Revolution in Geography?
- Behaviouralism
 - Locational analysis
 - Regional analysis
 - Spatial science
15. Which one of the following statements relating to Gall's Cylindrical Stereographic Projection is NOT correct?
- It is neither an equal-area nor an orthomorphic projection
 - The meridians are equispaced
 - The scale is true along the equator
 - The parallels are not equispaced
16. The Survey of India Toposheets are prepared on which of the following projections?
- Conical Projection with Two-Standard Parallels
 - Lambert's Conical Projection
 - Polyconic Projection
 - International Projection
17. Which one of the following refers to circuit development in transport networks?
- Gamma index
 - Alpha index
 - Eta index
 - Beta index
18. Full form of IUCN is
- International Union of Commonwealth Nations
 - Integrated Urban Community of Nations
 - International Union for Conservation of Nature
 - International Understanding for Commonwealth Nations
19. Select the correct sequence of the following continents arranged from larger to smaller ones.
- Antarctica, S. America, Oceania, Europe
 - S. America, Europe, Oceania, Antarctica
 - Europe, Antarctica, S. America, Oceania
 - S. America, Antarctica, Europe, Oceania
20. Which river water is harnessed under the Bhakra Nangal Project?
- Sutlej
 - Chenab
 - Ravi
 - Beas
21. 'Time of Relaxation' is a term associated with
- Concept of spatial diffusion
 - Concept of human ecology
 - Concept of system
 - Concept of spatial association
22. The process by which winds remove particles of dust from the land surface in arid region is called
- Foliation
 - Attrition
 - Abrasion
 - Deflation
23. The processes involved in soil formation are reflected in its
- Textural characteristics
 - Colour
 - Chemical composition
 - Profile
24. Beaufort Scale is used to measure
- Intensity of sunshine
 - Hardness of rocks
 - Velocity of wind
 - Temperature of snow deposits

25. Polar Orbital satellites are also known as
- (A) Sun-Synchronised satellites
 - (B) Earth-synchronised satellites
 - (C) Polar area satellites
 - (D) High altitude satellites
26. Who developed 'The Principle of Least Effort'?
- (A) E. C. Semple
 - (B) Zipf
 - (C) Christaller
 - (D) Weber
27. Which of the following is NOT correctly matched?
- (A) Mackinder - Heartland Theory
 - (B) Sauer - Landscape Morphology
 - (C) Herbertson - Natural Regions
 - (D) Hettener - Human Ecology
28. Eco-freeze is aimed at
- (A) Halting ecological degradation
 - (B) Stopping ecological disasters
 - (C) Stopping environment modification process
 - (D) Controlling the state of ecological disasters
29. Which of the following water bodies is a Ramsar site
- (A) Sone beel
 - (B) Subansiri river
 - (C) Gaurisagar
 - (D) Loktak lake
30. Which of the following mountains separates the Ganga valley from the Thar desert
- (A) Westernghat
 - (B) Aravalli
 - (C) Satpura
 - (D) Vindhya
31. The outer Himalaya is known as
- (A) Siwalik
 - (B) Great Himalaya
 - (C) Nepal Himalaya
 - (D) Arunachal Himalaya
32. Laterite soil mainly occurs in
- (A) Uttarakhand
 - (B) Rajasthan
 - (C) Uttar Pradesh
 - (D) Odisha
33. The Bastar region is a
- (A) Tropical evergreen forest area
 - (B) Desert area
 - (C) Tribal dominated area
 - (D) Fertile plain area
34. Intensive farming is practised in
- (A) High population density area
 - (B) High altitude zones
 - (C) Low population density areas
 - (D) Tropical grasslands
35. Which of the following is an antecedent river
- (A) The Ganga
 - (B) The Damodar
 - (C) The Brahmaputra
 - (D) The Godavari
36. The Brahmaputra Basin has an area of (in lakh square kilometres)
- (A) 2.55
 - (B) 5.80
 - (C) 8.50
 - (D) 1.70
37. The Indian plate is moving northward annually at the rate of
- (A) 15 cm
 - (B) 4 cm
 - (C) 8 cm
 - (D) 14 cm

38. 'Vienna Circle' is associated with
- Phenomenology
 - Urban ecology
 - Positivism
 - Marxism
39. About 27% of the total area of North-East India is constituted by
- The plateau
 - The wetlands
 - The plains
 - The reserved forests
40. The book 'All Possible World' is written by
- David Harvey
 - D. M. Smith
 - P. E. James
 - P. Hagget
41. The population of India as per 2011 Census is
- 1.028 billion
 - 1.21 billion
 - 1.12 billion
 - 1.32 billion
42. The author of the book 'Geography and Geographers' is
- R. J. Chorley
 - P. Haggett
 - R. J. Johnston
 - David Harvey
43. In the regression equation $Y = a + bx$, 'a' stands for
- Regression coefficient
 - Slope
 - Intercept
 - Gradient
44. An Indian topographical map of scale 1 : 50,000 has an extension of
- 7.5' × 7.5'
 - 30' × 30'
 - 1° × 1°
 - 15' × 15'
45. If a map with scale 1cm to 40 km is enlarged by four times, what would be the scale of the enlarged map?
- 1 cm to 5 km
 - 1 cm to 10 km
 - 1 cm to 40 km
 - 1 cm to 160 km
46. In the case of heterogeneous population in an area, what would be the appropriate sampling technique for socio-economic survey?
- Simple random sampling
 - Systematic sampling
 - Stratified sampling
 - Cluster sampling
47. In the case of chi-square analysis, the 0 (zero) value of χ^2 indicates
- Acceptance of null hypothesis
 - No correlation
 - Rejection of null hypothesis
 - Cluster distribution
48. Which one of the following pairs is NOT correctly matched?
- R J Chorley - Locational Analysis
 - G K Zipf - Rank-Size Rule
 - Jefferson - Primate City
 - W W Rostow - Economic Growth Model
49. Which one of the following is the correct sequence in respect of decreasing proportion of scheduled tribes population in four selected states of North-East India?
- Mizoram-Nagaland-Meghalaya-Arunachal Pradesh
 - Nagaland-Meghalaya-Mizoram-Arunachal Pradesh
 - Nagaland-Meghalaya-Arunachal Pradesh-Mizoram
 - Mizoram-Nagaland-Arunachal Pradesh-Meghalaya
50. Which one of the following statements is NOT correct?
- Coefficient of Variation is a relative measure of dispersion
 - Square root of standard deviation is called variance
 - Zero value coefficient of skewness indicates symmetrical distribution
 - Zero value of Gini's coefficient indicates uniform distribution

Section C (30 Marks)

Answer any 5 (five) from the following

1. Give an outline of the philosophical issues associated with research in human geography. (Marks : 6)
2. Identify a research problem pertaining to geography of North-East India and state its academic and other significance. (Marks : 4 + 2 = 6)
3. Discuss the need and significance of field work in geographical research. (Marks : 6)
4. Explain the role of literature review in developing a conceptual framework for research. (Marks : 6)
5. Distinguish between 'Space' and 'Place' and briefly explain the term 'Spatial Organisation' (Marks : 6)
6. Explain the major issues relating to 'Environment and Development' dichotomy. (Marks : 6)
7. Explain the statement - "Landform is the function of structure, process and stage". (Marks : 6)
8. What is a model? Briefly explain the significance of gravity model in understanding spatial interaction. (Marks : 6)
9. What is remote sensing? Briefly highlight its importance in geographical study. (Marks : 6)
10. What is sampling? Highlight the considerations involved in sample selection and sample data collection. (Marks : 6)

Space for Answers (Section C) : for Questions 1 to 10 (12 pages)

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Space for Answers (Section C) : for Questions 1 to 10 (12 pages)

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GU-RFET 2019

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