

# Sikkim Public Service Commission

Main Written Examination for the Post of Sikkim State Civil Service

OPTIONAL PAPER :- GEOGRAPHY

Time Allowed : 3.00 Hrs.

Maximum Marks : 300

## INSTRUCTIONS TO CANDIDATES

*Read the following instructions carefully before answering the questions :-*

1. **IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.**
2. Please note that it is the candidate's responsibility to fill in the Roll Number carefully and without any omission or discrepancy at the appropriate places in the **OMR ANSWER SHEET** as well as on **SEPERATE ANSWER SHEET** for MCQ / SUBJECTIVE PAPER. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. **Use only Black Ball Point Pen to fill the OMR sheet**
4. Do not write anything else on the OMR Answer Sheet except the required information.
5. **This Test Booklet contains 75 items (questions) in MCQ Mode in Part I to be marked in OMR Sheet and Part II Subjective Questions, which has to be written on seperate answer sheet provided to you.**
6. **All items from 1 to 75 carries 2 mark each .**
7. Before you proceed to mark in the Answer Sheet (OMR), you have to fill in some particulars in the Answer Sheet (OMR) as per given instructions.
8. After you have completed filling in all your responses on the Answer Sheet (OMR) and the examination has concluded, you should hand over the Answer Sheet (OMR) and Seperate answer sheet to the Invigilator only . You are permitted to take away with you the Test Booklet.
9. **Marking Scheme**

THERE WILL BE NEGATIVE MARKING FOR WRONG ANSWERS MARKED BY A CANDI DATE IN THE OBJECTIVE TYPE QUESTION PAPERS.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to the question.
- (iii) If a question is left blank. i.e., no answer is given by the candidate, there will be no penalty for that question.

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

# JALAN KUNING SERVICE COMMISSION

## OPTIONAL PAPER - GEOGRAPHY

Maximum Marks - 700

Time - 3 hours

### INSTRUCTIONS

1. Candidates should read the instructions carefully before answering the questions.
2. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNEXPECTED WRITES OR MISSING PAGES OR IT IS NOT ALSO DETACHED BY ANY OF THE TEST BOOKLET.
3. Candidates should read the instructions carefully before answering the questions. The instructions are as follows:
  - (a) The test booklet contains 75 items (questions) in MCQ Mode in Part I to be marked in OMR Sheet and Part II Subjective Questions, which has to be written in a separate answer sheet provided to you.
  - (b) All items from I to 75 carry 2 marks each.
  - (c) Before you proceed to a question in the Answer Sheet (OMR), you have to fill in some particulars in the Answer Sheet (OMR) as per given instructions.
  - (d) After you have completed filling in all your responses in the Answer Sheet (OMR), you have to check the number of items you have filled in and over the Answer Sheet (OMR) and separate answer sheet in the Answer Sheet (OMR), you are provided to fill in with you the Test Booklet.
  - (e) Marking Scheme
4. FROM 2017 onwards, THE MARKING FOR RIGHT ANSWERS AND WRONG ANSWERS IN THE OBJECTIVE TYPE QUESTION ARE:
  - (i) For a correct answer for the marks to every question, for each question in the objective type question, the answer has been given by the candidate, one mark will be awarded. If the question will be marked as correct.
  - (ii) If a candidate gives more than one answer, it will be marked as wrong and zero marks will be awarded for that question.
  - (iii) If no answer is given by the candidate, there will be no marks for that question.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

## PAPER - GEOGRAPHY

### Part-1: Objective/MCQ

Each question carries 2 marks

1. The base level of erosion in the case of wind in the arid region is
  - A) Underground water level
  - B) Ground water level
  - C) Sea level
  - D) None of the above
2. Population distribution of rural and urban areas can be shown by:
  - A) Hythergraph
  - B) Ergo graph
  - C) Dots and sphere
  - D) Line graph
3. Who among the following was the first Professor of Geography?
  - A) Davis WM
  - B) Carl Ritter
  - C) Eratosthenes
  - D) Alexander Von Humboldt
4. Which of the following map projections is suitable for the representation of the international boundary between USA and Canada?
  - A) Simple conical projection with one standard parallel
  - B) Bonne's projection
  - C) Simple conical projection with two standard parallels
  - D) Polyconic projection
5. Zeugens and Yardangs are the important erosional landforms produced by
  - A) Running water
  - B) Underground water
  - B) Glaciers
  - D) Wind
6. Atmosphere is mainly heated up
  - A) Directly by solar radiation
  - B) By short waves terrestrial radiation
  - C) By long waves terrestrial radiation
  - D) By none of the above
7. The highest annual range of temperature is found in the:
  - A) Monsoon climate
  - B) Sahara desert
  - C) Steppe grasslands
  - D) Taiga climate

8. If RF of a map is 1:1000 then what will be its scale factor

- A) 0.01
- B) 0.0001
- C) 0.001
- D) 0.1

9. Sea salt, pollen, ash, smoke soot, fine soil all are associated with

- A) Dust particles
- B) Water vapour
- C) Meteors
- D) Gases

10. If the surface air pressure is 1,013 mb, the air pressure at 1 km. will be

- A) 540 mb
- B) 898 mb
- C) 998 mb
- D) 798 mb

11. Read the following statements and select the correct answer using the codes given below:

1. The salinity of the ocean is shown with the help of isohalines.
2. Surface salinity in ocean varies according to temperature.
3. The highest salinity in the Atlantic ocean lies near the tropics
4. Salinity of the oceans decreases towards the equator.

- A) 1, 2 and 3, are correct
- B) 1, 2 and 4 are correct
- C) 1, 3, and 4 are correct
- D) 1, 2, 3 and 4 are correct

12. "The Present is the Key to the Past." This statement was given by

- (A) Dutton
- (B) Strahler
- (C) Hutton
- (D) Dana

13. Which of the following is smallest unit?

- (A) Biosphere
- (B) Ecosphere
- (C) Ecosystem
- (D) Biome

14. Apparent shift of the Sun between the Tropics of Cancer and Tropic of Capricorn lead to then  
Which one of the following :

- A) Change in Season
- B) Day and night
- C) Shift in equator
- D) Shift in thermal equator

15. The R.F. of 45 N/13 will be

- (A) 1 : 25,000
- (B) 1 : 50,000
- (C) 1 : 10,000
- (D) 1 : 100,000

16. The chief pollutant that can deplete Stratospheric Ozone is  
 (A) SO<sub>x</sub> (B) NO<sub>x</sub>  
 (C) CO<sub>2</sub> (D) CFC
17. Any association between two kinds of organisms that may provide benefit to at least one of the organisms is called  
 A) Symbiosis B) Asymbiosis  
 C) Tropic level D) Habitat
18. According to Census of India 2011 figure the lowest sex ratio is in which of the following state  
 A) Punjab B) Haryana  
 C) Uttar Pradesh D) Kerala
19. Which one of the following is not correct?  
 A) Troposphere is the layer in atmosphere where maximum mixing takes place  
 B) The temperature in the stratosphere increases  
 C) The temperature in the troposphere always decreases  
 D) The temperature in the Mesosphere decreases
20. A deep, long and wide trough or basin with very steep concave high walls at its head as well as in side is known as  
 A) Eskers B) Cirque  
 C) Moraine D) Arete
21. Any moving body deflects towards its right in the Northern Hemisphere and towards left in southern hemisphere. This is mainly because of which among the following:  
 A) Eddy's current  
 B) Due to earth rotational forces  
 C) Due to Coriolis forces  
 D) Due to earth revolution
22. The first climatic atlas (Kitabul Ashkal) was prepared by  
 A) Al-Balaki B) Al-Masudi  
 C) Al-Beruni D) Al-Maqdisi
23. The National Bureau of Soil and Land Use Planning has classified India into how many broad agro-ecological regions

A) 26

B) 22

C) 24

D) 16

24. In the Karst region where there is little or no surface drainage and the valley in which rivers used to flow but now are dry, these are called as

A) Blind valley

B) Cave and caverns

C) Coombes

D) Sink holes

25. Which one of the following soil is rich in potash BUT poor in phosphorous

A) Red soil

B) Laterite soil

C) Alluvial soils

D) None of the above

26. Which one of the following current originates on west coast of Greenland, move down and meets the East Greenland current in the Atlantic Ocean?

A) Gulf stream

B) Labrador current

C) North Atlantic current

D) Norwegiarian current

27. Which one of the following is not a process of carrying load by river?

A) Abrasion

B) Attrition

C) Solution

D) Deflation

28. Who among the following postulated the 5 stage sequence of economic and social development model?

A) Rostow

B) Webbers

C) Losch

D) Christallers

29. Which of followings are essential in an *Environmental Impact Assessment* (EIA)?

A) That it allows decision makers to assess a project's impacts in all its phases

B) That it allows the public and other stakeholders to present their views and inputs on the planned development

C) That it contributes to and improve the project design, so that environmental as well as socioeconomic measures are core parts of it

D) All of the above

30. The total value of goods and services produced in a country during one financial year is called as

A) PNP

B) GNP

C) NPP

D) GDP

31. Who among the following is the author of *An Essay on Principle and Population*?

A) Notasteen

B) Darwin

C) Robert Malthus

D) Revensteen

32. As per the Demographic Transition Theory the countries which have both low birth rate and slow population growth is in which of the following stage

A) Stage II

B) Stage III

C) Stage V

D) Stage IV

33. The transitional zone between the two ecosystem e.g. Tundra and Boreal forest is called as

A) Ecotone

B) Ecumene

C) Niche

D) Habitat

34. An incised water-worn channel, which is common in the semiarid areas are called as

A) Gulf

B) Gully

B) Drainage channel

D) Meander

35. Crop rotation in many parts of the world is done in order to preserve

A) Soil erosion

B) Soil moisture

C) Soil fertility

D) Soil salinity

36. Which among the followings is the racial stock mainly concentrated in the Himalayan Borderland i.e. Laddakh and Sikkim etc.

A) Mangoloid

B) Proto-Australoids

C) Nordics

D) Negritos

37. The vast extent of crescent shaped sand dunes in arid regions is called as

A) Barkhans

B) Hamada

C) Sirir

D) Sand dunes

38. Which district of India has been found to have least population density in Census-2001?

A) Lahul and Spiti

(B) Gangtok

C) Lohit

(D) Dibang Valley

39. The proportion of workers in total population in percentage is termed as:

A) work force

(B) participation rate

(C) labour force

(D) marginal worker

40. Match the standard color and respective features on Survey of India topo-sheets:

(A) Cultivated area I. Red

(B) Built up areas II. Dark green

(C) Forest III. Brown

(D) Contour IV. Yellow

(A) (B) (C) (D)

(A) IV I II III

(B) I II III IV

(C) II III I IV

(D) III IV II I

41. Name the projection in which all the parallel are standard parallel:

- A) Bonne's projection (B) Polyconic projection  
C) Cylindrical equal area (D) All of these

42. The homolographic projection has the correct representation of:

- A) Area (B) Shape  
C) Bearing (D) distance

43. How is the pole represented on a cylindrical projection?

- (A) As a straight line (B) as a point  
C) As a sine curve (D) as an arc

44. Who said "Give me the matter I will build a world out of it".

- A) Humboldt B) Emmanuel Kant  
C) Laplace D) Carl Ritter

45. Examine the following statement and select the correct answer using the code given below:

- A) Basalt magma is very hot and highly fluid  
B) Silicate magma is cooler (Less than 850°)  
C) Igneous rocks are the primary rocks  
D) Igneous rocks are made up by the solidification of magma

Codes:

- A) a, b, c are correct  
B) a, c, d are correct  
C) b, c, d are correct  
D) All are correct

46. Which one of the following tribes of Andaman and Nicobar Islands.

- A) Munda B) Kurra  
C) Onges D) None of Above

47. The ..... was started in 1977-78 with the main aim of controlling desertification, restoring ecological balance and creating conditions to improve the economic level of people in desert areas.
- A) Desert Peoples Programme (DPP)
  - B) Desert Development Programme (DDP)
  - C) Desert Welfare Programme (DWP)
  - D) Desert Samadhaan Programme (DSP)
48. The ..... river is also known by the name 'Sorrow of Bengal' as it gets flooded often causing damage.
- A) Jhutta
  - B) Kamodar
  - C) Yamuna
  - D) Damodar
49. The Himalayas cross which one of the five countries of the World
- A) Bhutan, India, Nepal, China, and Pakistan
  - B) Bhutan, India, Afghanistan, China, and Pakistan
  - C) Bhutan, India, Nepal, Indonesia, and Pakistan
  - D) Australia, India, Nepal, China, and Pakistan
50. What is the occupation of the people of polar region?
- A) Commerce and trade
  - B) Livestock rearing
  - C) Hunting and fishing
  - D) Agriculture
51. Which one of the following is the unit of measure of the thickness of the ozone layer of the atmosphere
- A) Dobson
  - B) Knot
  - C) Poise
  - D) Maxwell
52. World Environment Day is observed annually on
- A) 5<sup>th</sup> June
  - B) 1<sup>st</sup> December
  - C) 3<sup>rd</sup> October
  - D) 16<sup>th</sup> September
53. The 'Ring of Fire' is associated with
- A) Faulting & Folding
  - B) Volcanoes & Earthquakes
  - C) Atlantic Ocean
  - D) Forest Fires
54. Earthquake waves are recorded in
- A) Barograph
  - B) Hydrograph
  - C) Seismograph
  - D) Pantagraph

55. What percentage Africa has out of the total area of earth?  
 A) 19.20% B) 21.90%  
 C) 18.70% D) 20.30%
56. The largest copper producing country is:  
 A) USA B) USSR  
 C) Chile D) Pakistan
57. Which one of the following countries of Africa comprises two cultural realms which led to the division of the country?  
 (A) South Africa (B) Sudan  
 (C) Kenya (D) Ethiopia
58. The main determinant of population change is:  
 (A) Fertility (B) Mortality  
 (C) Migration (D) Both B and C
59. Which of the following is tropical grassland?  
 A) Taiga B) Savannah  
 C) Pampas D) Prairies
60. The hot and cold deserts together occupy nearly \_\_\_\_ land area of the world.  
 A) 1/2 B) 1/4th  
 C) 1/3rd D) 3/4th
61. The landforms that are created by massive earth movements due to plate tectonics are called  
 A) Structural landforms B) Weathering landforms  
 C) Erosional landforms D) Depositional landforms
62. Graphical representation of total population of country, males and female population ratio and old and young people ratio is classified as  
 A) Population density pyramid B) Population pyramid  
 C) Resource pyramid D) Population characteristics pyramid
63. The rise of globalization was greatly facilitated by  
 A) 16<sup>th</sup> Century population growth  
 B) Developments in transportation and communication  
 C) International migration  
 D) Industrialization

64. Which of the following explains the term economic development?

- A) Improvement in the technology involved
- B) Improvement in production
- C) Improvement in distribution system
- D) All the above

65. The human activity, among the following, which causes maximum environmental pollution having regional and global impacts, is:

- A) Urbanization
- B) Industrialization
- C) Agriculture
- D) Mining

66. Social, economical and ecological equity is the necessary condition for achieving

- A) Social development
- B) Economical development
- C) Sustainable development
- D) Ecological development

67. Which of the following statements in relation to sustainable development is not true?

- A) Sustainable development is defined as the development that meets the needs of present without compromising the ability of our future generations to meet their own needs
- B) Sustainable development of various countries and the entire world is the only solution left with mankind to survive for a longer period on Earth
- C) Sustainability has the main objective of purely focussing on the natural environment
- D) Sustainable development not only considers the protection of the environment but also the maintenance of economic viability as well as the social and ethical considerations

68. 'Meeting the needs of the present without compromising the ability of future generation to meet their own need' is given by:

- A) Sunderlal Bahugana
- B) Mahatma Gandhi
- C) Amartya Sen
- D) Brundtland

69. Consider the following statements: Regional disparities in India are high and have been rising in recent years because

1. There is persistent investment over time only in Select locales
2. Some areas are agro climatically less conducive to development
3. Some areas continue to face little or no agrarian transformation and the consequent lack of social and
4. Some areas have faced continuous Political instability.

Which of the above statements are correct?

- A) 1, 2 and 3
- B) 1, 2 and 4
- C) 1, 3 and 4
- D) 2, 3 and 4

70. The tsunami that killed over 250,000 people in south and Southeast Asia in 2004 was caused by
- A) tropical storm
  - B) A hurricane
  - C) An earthquake
  - D) A volcanic explosion
71. In ancient Egypt the Nile River
- A) Had to be regulated because it carried too much water
  - B) Changed its course almost every year
  - C) Brought nutrients that made the fields fertile
  - D) Destroyed large areas of farming land every year
72. A flash flood is a flood that:
- A) Is caused by heavy rain rather than from the flooding of a river
  - B) Occurs in urban areas
  - C) Occurs suddenly and unexpectedly and for a short duration
  - D) Is caused by the blocking of drains.
73. Considering types of settlement, people of urban settlement are involved in different activities that includes
- A) business and manufacturing
  - B) fishing and farming
  - C) mining
  - D) forestry
74. In settlement patterns, settlements that occur near rivers, coasts and railways are classified as:
- A) Linear settlement patterns
  - B) Zonal settlement patterns
  - C) Economic settlement patterns
  - D) Climatic settlement patterns
75. Worldwide population which does not get necessary food is classified as:
- A) Well fed population
  - B) Under fed population
  - C) Undernourished population
  - D) Over nourished population

**PART II**  
**Subjective /conventional: Marks: 150**

**This Paper consist of:**

- A. 10 questions of 5 marks each ..... 50 Marks  
B. 5 questions of 10 marks each ..... 50 Marks  
C. 2 questions of 25 marks each ..... 50 Marks

**A. Attempt only 10 questions, each question carries 5 marks.**

- Q. No. 1 Discuss various approaches to study the man-environment relationships.  
Q. No. 2 Explain various components of physical environment.  
Q. No. 3 Explain various factors responsible for the human migration in the present scenario.  
Q. No. 4 What do you understand by the term urbanization? Explain the World's urbanization scenario.  
Q. No. 5 Give a detailed account on the Bio-climatic regions of the World.  
Q. No. 6 'Human life in the Hot Deserts of the World is very difficult' explain the statement with suitable examples.  
Q. No. 7 Deforestation is a major problem in the World today; discuss various management practices for this problem.  
Q. No. 8 Land degradation and soil erosion is one of the major concern World-wide, discuss and also suggest its remedial measures.  
Q. No. 9 Discuss the most important economic resources of India with suitable examples.  
Q. No. 10 Discuss various factors responsible for the uneven distribution and growth of World population.  
Q. No. 11 What is population explosion? Discuss the role in the present day resource crisis.  
Q. No.12 Write an essay on the Problems of agrarian in the country and how it can be handled?  
Q. No.13. Give an account on the physiography of South-East Asia.  
Q. No.14. Classify and give a detailed account on the major land forms of the World.

**(B) Attempt only 5 questions, each question carries 10 marks.**

- Q. No. 1 What do you understand by the essence of cultural realms? Give a detailed account on major cultural realms of world.  
Q. No. 2 What do you mean by sustainable development? What planning measures is to be taken up for the sustainable development?  
Q. No. 3 With the increase in global Population the issue of food security is becoming serious issue, discuss various planning measures to handle the food security in the World.

- Q. No. 4. Discuss the various geographical factors for the large scale soil erosion in India and in the World.
- Q. No. 5. Give a detailed account on the international migrations in the present context of Globalization.
- Q. No. 6. What are environmental hazards? Discuss in detail the Tsunamis as one of biggets hazard in the present context.
- Q. No. 7. Critically examine the contribution of Alexander von Humboldt and Carl Ritter in the development of Geography.
- Q. No. 8. What do you understand by land use/over? Give an account on the impact of land use/land cover change on the urban environment of India

**(C) Attempt only 2 questions, each question carries 25 marks.**

- Q. No. 1. What do you understand by Environmental Impact Assessment (EIA)? What are the processes involved in it and why EIA is important in today's context?
- Q. No. 2 In the age of water crisis (shortage) and floods (excess) how do you see the viability of linking Himalayan and Peninsular Indian rivers, answer with suitable examples.
- Q. No. 3 In spite of more than six decades of planning there exists large inequalities in India. Elaborate your answer with suitable examples.
- Q. No. 4 Discuss *various* factors responsible for the global environmental degradation. Also give suitable measures to overcome this problem for healthy life.



