

Sr. No.

ENTRANCE TEST-2023

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

GEOGRAPHY

Question Booklet Series

A

Total Questions : 60

Time Allowed : 70 Minutes

Roll No. :

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Instructions for Candidates :

1. Write your Entrance Test Roll Number in the space provided at the top of this page of Question Booklet and fill up the necessary information in the spaces provided on the OMR Answer Sheet.
2. OMR Answer Sheet has an Original Copy and a Candidate's Copy glued beneath it at the top. While making entries in the Original Copy, candidate should ensure that the two copies are aligned properly so that the entries made in the Original Copy against each item are exactly copied in the Candidate's Copy.
3. All entries in the OMR Answer Sheet, including answers to questions, are to be recorded in the Original Copy only.
4. Choose the correct / most appropriate response for each question among the options A, B, C and D and darken the circle of the appropriate response completely. The incomplete darkened circle is not correctly read by the OMR Scanner and no complaint to this effect shall be entertained.
5. Use only blue/black ball point pen to darken the circle of correct/most appropriate response. In no case gel/ink pen or pencil should be used.
6. Do not darken more than one circle of options for any question. A question with more than one darkened response shall be considered wrong.
7. There will be '**Negative Marking**' for wrong answers. Each wrong answer will lead to the deduction of 0.25 marks from the total score of the candidate.
8. Only those candidates who would obtain positive score in Entrance Test Examination shall be eligible for admission.
9. Do not make any stray mark on the OMR sheet.
10. Calculators and mobiles shall not be permitted inside the examination hall.
11. Rough work, if any, should be done on the blank sheets provided with the question booklet.
12. OMR Answer Sheet must be handled carefully and it should not be folded or mutilated in which case it will not be evaluated.
13. Ensure that your OMR Answer Sheet has been signed by the Invigilator and the candidate himself/herself.
14. At the end of the examination, hand over the OMR Answer Sheet to the invigilator who will first tear off the original OMR sheet in presence of the Candidate and hand over the Candidate's Copy to the candidate.

1. Who was considered as the founder of modern Human Geography ?
 - (A) F. Ratzel
 - (B) Carl Ritter
 - (C) E.C. Semple
 - (D) A.V. Humboldt
2. Which of the following is the philosophical basis of Quantitative revolution ?
 - (A) Probabilism
 - (B) Positivism
 - (C) Environmentalism
 - (D) Idealism
3. Which one of the following is a key concept in humanistic geography ?
 - (A) Spatial concentration
 - (B) Spatial location
 - (C) Development and quality of life
 - (D) Geographical development
4. Toynebee has divided the world into how many cultural regions ?
 - (A) 2
 - (B) 5
 - (C) 4
 - (D) 3
5. Who proposed the idea of sea floor spreading?
 - (A) Harry Hess
 - (B) Alfred Wegener
 - (C) McKenzie and Parker
 - (D) Arthur Holmes
6. Which of the following theories comprehensively explains the dynamism of earth's crust and features of the endogenetic forces ?
 - (A) Sea floor spreading
 - (B) Plate tectonics
 - (C) Geosync line theory
 - (D) Convective cell theory
7. The landforms which are created by the epeirogenic forces are called :
 - (A) Primary relief
 - (B) Secondary relief
 - (C) Tertiary relief
 - (D) Polycyclic relief
8. Which of the following phenomena is more pronounced in youthful stage of Davis cycle of erosion ?
 - (A) Vertical erosion
 - (B) Lateral erosion
 - (C) Valley widening
 - (D) Both vertical & lateral erosion
9. Exfoliation of rocks due to pressure release or unloading is also known as:
 - (A) Sheeting
 - (B) Mass wasting
 - (C) Shattering
 - (D) Abrasion
10. How many types of volcanoes are there on the basis of periodicity ?
 - (A) 2
 - (B) 5
 - (C) 3
 - (D) 7
11. Which of the following landform is the example of fluvial depositional landform ?
 - (A) Delta
 - (B) Cataract
 - (C) Potholes and plunges
 - (D) Waterfall and rapid
12. Karst topography is strongly developed where the water table is :
 - (A) Relatively low
 - (B) Moderate
 - (C) High
 - (D) Very high

13. Consider the following statements:
1. Tropical cyclones have convectional formation whereas temperate cyclones have frontal formations.
 2. Tropical cyclones move from west to east whereas temperate cyclones move from east to west.
 3. Tropical cyclones originate only in deep warm oceans while temperate cyclones can originate over land as well as oceans.
- Which of the above statement(s) is/are incorrect?
- (A) 1 & 2
(B) 1 & 3
(C) 2 & 3
(D) 2 only
14. Consider the following:
1. Chinook: USA
 2. Foehn: Switzerland
 3. Sirocco: Sahara to Mediterranean
 4. Bora: Canada
- Which of the following pair(s) is/are correctly matched ?
- (A) 1 & 4
(B) 1, 2 & 4
(C) 1, 2 & 3
(D) All of the above
15. The phenomenon of “Pineapple Express” which was recently in news is related to:
- (A) Land sinking in Joshimath.
(B) Landslide experienced in California.
(C) Technique of cultivating Pineapple.
(D) Atmospheric phenomenon that resembles a conveyor belt.
16. What happens to relative humidity when air temperature rises ?
- (A) Increases
(B) Decreases
(C) May increase or decrease
(D) Remains the same
17. Which of the following statements is true?
1. West coasts of the continents in tropical and sub-tropical latitude (except close to equator) are bordered by warm currents.
 2. The mixing of warm and cold current results in best fishing grounds of world.
- Select the correct options :
- (A) 1 only
(B) 2 only
(C) Both
(D) None
18. Which of the following ocean currents is found in southern hemisphere?
- (A) Oyashio current
(B) West wind drift
(C) Gulf stream
(D) Canaries current
19. Which of the following factors are affecting the ocean salinity?
1. Evaporation
 2. Freezing of ice
 3. Rivers
 4. Wind flow
- Select the correct answer using the code given below :
- (A) 1,2 and 3 only
(B) 2, 3 and 4 only
(C) 1,3 and 4 only
(D) 1,2,3 and 4
20. Arrange the following seas of Europe continent from North to South :
1. Baltic sea
 2. White sea
 3. Ionian sea
 4. Adriatic sea
- Select the correct answer using the code given below :
- (A) 1-2-3-4
(B) 2-1-3-4
(C) 2-1-4-3
(D) 1-2-4-3

21. The largest ecosystem of the Earth is :
- Biosphere
 - Hydrosphere
 - Lithosphere
 - Biome
22. Greenhouse effect means :
- Cultivation in green houses so as to check pollution.
 - Trapping of solar energy due to atmospheric oxygen.
 - Trapping of solar energy due to atmospheric carbon dioxide.
 - Pollution in houses in tropical regions.
23. Which one of the following is the correct sequence of ecosystem in the order of decreasing productivity?
- Mangroves, grasslands, lakes, oceans
 - Mangroves, oceans, grasslands, lakes
 - Oceans, lakes, grasslands, mangroves
 - Oceans, mangroves, lakes, grasslands
24. Who wrote the book An Essay on the Principle of Population ?
- E. Ravenstein
 - Zelinsky
 - R.C. Chandna
 - Thomas Robert Malthus
25. According to Ackerman's division of world into population-resources regions, India falls under the category of
- United State type
 - Egyptian type
 - Brazilian type
 - European type
26. Which of the following conditions are characterized by second stage of demographic transition?
- Low birth rate, high death rate
 - High birth rate, high death rate
 - High birth rate, declining death rate
 - Low birth rate, low death rate
27. Which of the following are the 'pull factor' affecting migration?
- Better opportunities for work.
 - Better health facilities.
 - Poorer health facilities.
 - Absence of good educational institution.
- Choose the correct option :
- Only 1 and 2
 - Only 3 and 4
 - Only 1, 2 and 3
 - Only 1, 2 and 4
28. Which pass provides access to the Kailash-Mansarovar land route?
- Mana pass
 - Rohtas pass
 - Nathula pass
 - Baralacha la pass
29. Which of the following soils is formed by the weathering of basaltic lava flows?
- Red soil
 - Laterite soil
 - Acidic soil
 - Black soil
30. Which of the following characteristics are associated with dry monsoon forest of India?
- Annual rainfall is below 50cm.
 - The trees are short- rooted.
 - Thorny shrubs and grasslands.
 - Mango, Mahua, Sisam and Keekar are the prominent trees.
- 1 & 2
 - 2 & 4
 - 3 & 4
 - 1, 2 & 3

31. Who among the following coined the phrase 'Jet Stream'?
- (A) H. Seilkopf
(B) Wiley Post
(C) Herodotus
(D) Sir Gilbert Walker
32. Which among the following are called Rainforests of the Ocean?
- (A) Phytoplanktons
(B) Zooplanktons
(C) Corals
(D) Algae
33. Which of the following is not a man-made disaster?
- (A) War
(B) Terrorism
(C) Drought
(D) Civil War
34. What is the range of the intensity scale used in measuring earthquakes ?
- (A) 1 to 12
(B) 1 to 14
(C) 1 to 10
(D) 1 to 16
35. Tsunami occurs due to :
- (A) Earthquake generated in a subduction zone
(B) Wave upwelling
(C) Wind impact
(D) Tidal force
36. Coastal Andhra Pradesh and Odisha often face natural disasters due to :
- (A) Landslides
(B) Cyclones
(C) Earthquakes
(D) Flood
37. How many stages are there in Butler's theory of tourism development ?
- (A) 5
(B) 3
(C) 6
(D) 8
38. When was the first tourism policy introduced ?
- (A) 1982
(B) 1981
(C) 1979
(D) 1990
39. Which of the following states was chosen as the initiation site in India for Green Revolution?
- (A) Haryana
(B) Uttar Pradesh
(C) Punjab
(D) West Bengal
40. Given below are some factors influencing the location of certain industries :
1. Skilled labour
 2. Low transportation cost
 3. Clean and dust free environment
 4. Availability of raw material
 5. Government policy
- Which among these have more strongly influenced location of IT industry in India ?
- (A) 1,2 and 3
(B) 2, 3 and 4
(C) 3, 4 and 5
(D) 1,3 and 5
41. Where was the first steel plant set-up in India?
- (A) Bokaro
(B) Jamshedpur
(C) Bhadravati
(D) Rourkela
42. Name the industry, in which India is self-reliant :
- (A) Cotton Textile industry
(B) Sugar industry
(C) Iron and steel industry
(D) Chemical industry

43. The mountain range which lies in the lesser Himalayas and separates Kashmir valley from the outer Himalayas is :
- (A) Zaskar
(B) Pir Panjal
(C) Nun Kun
(D) None of the above
44. Which is the deepest lake of India?
- (A) Dal Lake
(B) Sanasar Lake
(C) Wular Lake
(D) Manasbal Lake
45. Which region has more number of biogas plants?
- (A) Jammu
(B) Kashmir
(C) Ladakh
(D) None of the above
46. Which of the following is the best period for saffron to be grown in Jammu & Kashmir?
- (A) Last week of August to September
(B) Last week of September to October
(C) Last week of July to August
(D) Last week of June to July
47. Which Mughal garden in Kashmir is known as 'garden of bliss'?
- (A) Shalimar garden
(B) Pari mahal garden
(C) Chashmashahi garden
(D) Nishat garden
48. Hospitality dimension of tourism is given much importance for the first time in the history of tourism development in India in which policy?
- (A) Tourism Policy 1982
(B) National Action Plan of Tourism 1992
(C) National Tourism Policy 2002
(D) National Strategy for Tourism Promotion
49. The disconnected lines used for showing slope on maps are known as:
- (A) Contours
(B) Form lines
(C) Hachure
(D) Bench marks
50. Consider the following:
1. Homolographic projection: True Shape projection
 2. Orthomorphic projection: Equal area projection
 3. Azimuthal projection: True-Bearing/Planar projection
 4. True Scale projection: Equi-distant projection
- Which of the following pair (s) is/are correctly matched:
- (A) 1&2
(B) 3&4
(C) 1,2 &4
(D) 2, 3 &4
51. Lines showing depth of the seabed are called
- (A) Isotherms
(B) Isohytes
(C) Isobaths
(D) Isobars
52. Which projection system is most suitable for navigational purposes ?
- (A) Mercator's projection
(B) Cylindrical projection
(C) Bonne's projection
(D) Conical projection
53. In case of steep slope, the contour lines are:
- (A) Widely spaced
(B) Closely spaced
(C) Cross each other
(D) None of the above

54. The GPS operated by Indians is
- (A) NavIC
 - (B) Compass
 - (C) Galileo
 - (D) GLONASS
55. A passive sensor uses:
- (A) Sun as the source of energy
 - (B) Its own source of energy
 - (C) Flashlight as a source of energy
 - (D) None of these
56. The number of spectral bands in the Enhanced Thematic Mapper Plus (ETM+) Sensor on remote sensing Satellite LANDSAT-7 is:
- (A) 12
 - (B) 10
 - (C) 8
 - (D) 6
57. In an asymmetrical distribution if the mean is 23 and the mode is 15. What will be the value of median?
- (A) 18.5
 - (B) 19
 - (C) 21.6
 - (D) 20.3
58. Ogive curve is also known as:
- (A) Simple frequency curve
 - (B) Cumulative frequency curve
 - (C) Both (A) and (B)
 - (D) None of the above
59. The term 'regression was introduced by:
- (A) Croxton and Cowden
 - (B) R.A. Fischer
 - (C) Francis Galton
 - (D) Karl Pearson
60. The correlation coefficient describes:
- (A) Only direction
 - (B) Only magnitude
 - (C) Neither (A) nor (B)
 - (D) Both (A) & (B)

ROUGH WORK

Sr. No. 701

ENTRANCE TEST-2021

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

GEOGRAPHY

Total Questions : 60
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Question Booklet Series **A**

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1. The subject matter of modern Geography is based on spatial organisation and man-environment relations. The analytical technique used in this context is concerned with :
 - (A) The exact positioning of events
 - (B) Geocentricism
 - (C) The best location
 - (D) The quality of particular areas
2. Following the orthodox structure of geography, economic geography is a subset of which of the following ?
 - (A) Philosophy
 - (B) Regional
 - (C) Techniques
 - (D) Systematic
3. Who founded the school of possibilism ?
 - (A) Lablache
 - (B) L. Febrve
 - (C) R. Hartshone
 - (D) Ratzel
4. The most successful types of regional units appear to be those whose spatial boundaries coincide most closely with the described :
 - (A) Socioeconomic systems
 - (B) Culture
 - (C) Model Systems
 - (D) Physical Systems
5. The basis of the concept of geomorphic cycle is :
 - (A) The effect of compensating uplift on landforms
 - (B) Surface tensional forces
 - (C) The role of declining rates of erosion over time
 - (D) Youth, maturity, old age
6. The waves that help scientists to understand the internal structure of the earth are :
 - (A) Primary waves
 - (B) Secondary waves
 - (C) Surface waves
 - (D) Longitudinal waves
7. Most strong earthquakes are generated by :
 - (A) Sudden crustal movements on active faults
 - (B) The collapse of calders
 - (C) Submarine landslides
 - (D) Volcanic eruptions
8. Mid-oceanic ridges are the result of :
 - (A) Convergent plate boundary
 - (B) Transform plate boundary
 - (C) Divergent plate boundary
 - (D) All the above
9. Which of the following pairs is most suitable for ascertaining the origin of the rocks ?
 - (A) Colour and shape
 - (B) Density and hardness
 - (C) Structure and composition
 - (D) Size and weight
10. Which of the following is not chemical weathering ?
 - (A) Oxidation
 - (B) Hydrolysis
 - (C) Carbonization
 - (D) Freezing

11. Alfred Wagner's theory of continental drift begins from :
- Carboniferous period
 - Cretaceous period
 - Tertiary period
 - Jurassic period
12. Stream erosion carried out directly by impact force of flowing water is called :
- Corrosion
 - Deflation
 - Hydraulic action
 - Abrasion
13. The debit side of the earth's solar radiation budget shows that almost two thirds of the available units are :
- Reflected by the atmosphere
 - Absorbed and reradiated
 - Diffused radiation
 - Transferred from the earth to the atmosphere
14. The bulk of the world's wettest areas are associated with the :
- Subtropical highs
 - Equatorial trough of low pressure
 - Polar easterlies
 - Mid-latitude westerlies
15. Tropical cyclones do not occur close to the equator because :
- Of excessive heat
 - Of weak Coriolis force
 - Land and water contrasts are large
 - Of areas of calm air movements
16. Relative humidity of an air mass increases when :
- air temperature rises
 - condensation takes place
 - precipitation takes place
 - air temperature falls
17. Which of the following factors influence ocean currents ?
- Rotation of the Earth
 - Air pressure and wind
 - Ocean water density
 - Revolution of the earth
- Select the correct answer using the codes given below :
- 1 and 2
 - 1 and 4
 - 1, 2 and 3
 - 2, 3 and 4
18. Pelagic deposits consist of matter derived from algae and are mostly in the form of liquid mud known as :
- Blue mud
 - Red mud
 - Ooze
 - Coral mud
19. Which of the following currents belong to Indian Ocean ?
- Agulhas current
 - Labrador current
 - Canary current
 - Antilles current
20. The rate of decrease of temperature in oceans with increasing depth is more rapid near the :
- Equator
 - Poles
 - Tropic of Cancer
 - Tropic of Capricorn

21. Which of the following are the major factors responsible for the monsoon type of climate in India ?
1. Location
 2. Thermal contrast
 3. Upper air circulation
 4. The Himalayan Mountains
- Select the correct answer using the code given below :
- (A) 1 and 4 only
 - (B) 1, 2, 3 and 4
 - (C) 2, 3 and 4 only
 - (D) 1, 2 and 3 only
22. The Karewas of Kashmir refers to which among the following types of deposits ?
- (A) Aeolian and glacial
 - (B) Lacustrine
 - (C) Fluvial
 - (D) Volcanic
23. What is the name given to the foothills zone of Himalayas ?
- (A) Inner Himalayas
 - (B) Siwalik
 - (C) Middle Himalayas
 - (D) Central Himalayas
24. 'Yellow Revolution' is associated with the production of :
- (A) Oil seeds
 - (B) Poultry
 - (C) Sunflower
 - (D) Gold
25. In the 'Index of Eight Core Industries', which one of the following is given the highest weight ?
- (A) Coal production
 - (B) Fertilizer production
 - (C) Electricity generation
 - (D) Steel production
26. Which of the following rivers is formed by two streams, the Chandra and Bhaga ?
- (A) Neelam
 - (B) Ravi
 - (C) Chenab
 - (D) Sutlej
27. The amount of material utilized at any particular level in the food chain is called :
- (A) A consumption ratio
 - (B) An atrophy level
 - (C) A trophic level
 - (D) A structural attendant
28. The optimistic view regarding the length of time that the earth's non-renewable resources will last is based on :
- (A) Improvements in technology
 - (B) Reduction in population
 - (C) Reduction in consumption
 - (D) Increase in consumption
29. Which of the following is a tropical grassland ?
- (A) Savana
 - (B) Pampas
 - (C) Prairie
 - (D) Taiga
30. An equilibrium state which is the result of vegetative change over a long period of time is called a(n) :
- (A) Climax
 - (B) Invasion
 - (C) Succulent
 - (D) Succession

31. The biological ability of an area to provide sufficient food stuffs to support the population (of a particular species) of that area is called the :
- Logistic growth constant
 - Fluctuation equivalent
 - Ecological plausibility
 - Carrying capacity
32. Population dividend refers to :
- Total number of population
 - Relatively high proportion of experienced aged people
 - Youthful age structure of a population
 - Migration from richer region to poorer region
33. The late expanding phase of "demographic transition" is associated with :
- Isolated and primitive tribes
 - High birth rates and high death rates
 - Stabilization of death rate at a low level
 - Most of the third world
34. The part of the Malthusian equation never made completely clear is the :
- The basis for the geometric growth of population
 - Curtailment of population increases by birth control
 - Biotic potential
 - The basis for the arithmetic growth of agriculture
35. As the doubling time of population growth decreases the rate of growth :
- Decreases
 - Increases
 - Stabilizes
 - Triples
36. The largest reserves of coal in India occurs in :
- Damodar basin
 - Narmada basin
 - Cauvery basin
 - Godavari basin
37. The most important industrial crop of India is :
- Tea
 - Sugarcane
 - Coffee
 - Cotton
38. Which of the following is the largest steel plant of India ?
- Vishakhapatnam steel plant
 - Daitari steel plant
 - Salem steel plant
 - Bokaro steel plant
39. Many parts of India face difficulty in producing multiple crops because :
- Temperature fluctuates in extreme
 - Monsoons are unpredictable
 - Water is not easily available
 - It is not economically viable
40. Crop rotation is being adopted to increase the :
- Crop yield
 - Productivity of the land
 - Soil water
 - Crop resistance to pests

21.

41. The distance between parallels in Mercator's projection :
- (A) Decreases towards the poles
 - (B) Increases towards the poles
 - (C) Remains same throughout
 - (D) Increases towards the equator
42. Actual heights of places above sea level are represented by :
- (A) Contours
 - (B) Layer colouring
 - (C) Spot height
 - (D) Hachures
43. Which of the following profiles show only the ruggedness of the sky-line ?
- (A) Projected profiles
 - (B) Super-imposed profiles
 - (C) Composite profiles
 - (D) Longitudinal profile
44. The direct use of an aerial photograph as a map is prevented by :
- (A) Very wide variation in the scale
 - (B) Horizontal displacement
 - (C) Vertical displacement
 - (D) The inability to measure the relief
45. Multi-variable climate data can be best shown by :
- (A) Dots
 - (B) Circles
 - (C) Graphs
 - (D) Shades
46. Which among the following is not a segment of GPS ?
- (A) Space segment
 - (B) Control segment
 - (C) User segment
 - (D) Variable segment
47. Contours of equal spacing represent :
- (A) Uniform slope
 - (B) Gentle slope
 - (C) Steep slope
 - (D) Convex slope
48. Which of the following is a classification base on the instrument used ?
- (A) Traverse surveying
 - (B) Topographic surveying
 - (C) Hydrographic surveying
 - (D) Cadastral surveying
49. Which among the following methods of plane table survey is suitable for locating inaccessible points ?
- (A) Radiation
 - (B) Resection
 - (C) Intersection
 - (D) All the above
50. Which of the following scales is used accurately measure minute divisions ?
- (A) Plain scale
 - (B) Comparative scale
 - (C) Diagonal scale
 - (D) Vernier's scale

51. When the values in a series are not of equal importance, we calculate the :
- (A) Mode
 - (B) Weighted mean
 - (C) Geometric mean
 - (D) Arithmetic mean
52. To measure the consistency between the two or more than two series we use :
- (A) Combined standard deviation
 - (B) Corrected standard deviation
 - (C) Coefficient of skewness
 - (D) Coefficient of variation
53. In a scattered diagram, if most of the points lie in the first and third quadrants, then coefficient of correlation is :
- (A) Zero correlation
 - (B) Negative correlation
 - (C) Positive correlation
 - (D) High negative correlation
54. When the ratio of variations in the related variables is constant, it is called :
- (A) Negative correlation
 - (B) Positive correlation
 - (C) Nonlinear correlation
 - (D) Linear correlation
55. Questionnaire is filled by :
- (A) Enumerator
 - (B) Respondent
 - (C) Everybody
 - (D) A special person
56. Disaster is an event arising out of :
- (A) Result of hazard event
 - (B) Causes of hazard event Respondent
 - (C) Causes of disaster event
 - (D) All of the above
57. Which of the following is not a component of disaster management cycle ?
- (A) Preparedness
 - (B) Construction
 - (C) Response
 - (D) Recovery
58. Which of the following is not an example of a rapid on-set of disaster ?
- (A) Earthquake
 - (B) Cyclone
 - (C) Drought
 - (D) Tsunami
59. What types of disasters are most predominant in India ?
- (A) Drought
 - (B) Earthquake
 - (C) Flood
 - (D) Cyclone
60. In India Tsunami warning centre is located at :
- (A) Ahmadabad
 - (B) Kolkata
 - (C) Vishakhapatnam
 - (D) Hyderabad

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1. The subject matter of modern Geography is based on spatial organisation and man-environment relations. The analytical technique used in this context is concerned with :
 - (A) The exact positioning of events
 - (B) Geocentricism
 - (C) The best location
 - (D) The quality of particular areas
2. Following the orthodox structure of geography, economic geography is a subset of which of the following ?
 - (A) Philosophy
 - (B) Regional
 - (C) Techniques
 - (D) Systematic
3. Who founded the school of possibilism ?
 - (A) Lablache
 - (B) L. Febrve
 - (C) R. Hartshone
 - (D) Ratzel
4. The most successful types of regional units appear to be those whose spatial boundaries coincide most closely with the described :
 - (A) Socioeconomic systems
 - (B) Culture
 - (C) Model Systems
 - (D) Physical Systems
5. The basis of the concept of geomorphic cycle is :
 - (A) The effect of compensating uplift on landforms
 - (B) Surface tensional forces
 - (C) The role of declining rates of erosion over time
 - (D) Youth, maturity, old age
6. The waves that help scientists to understand the internal structure of the earth are :
 - (A) Primary waves
 - (B) Secondary waves
 - (C) Surface waves
 - (D) Longitudinal waves
7. Most strong earthquakes are generated by :
 - (A) Sudden crustal movements on active faults
 - (B) The collapse of calders
 - (C) Submarine landslides
 - (D) Volcanic eruptions
8. Mid-oceanic ridges are the result of :
 - (A) Convergent plate boundary
 - (B) Transform plate boundary
 - (C) Divergent plate boundary
 - (D) All the above
9. Which of the following pairs is most suitable for ascertaining the origin of the rocks ?
 - (A) Colour and shape
 - (B) Density and hardness
 - (C) Structure and composition
 - (D) Size and weight
10. Which of the following is not chemical weathering ?
 - (A) Oxidation
 - (B) Hydrolysis
 - (C) Carbonization
 - (D) Freezing

11. Alfred Wagner's theory of continental drift begins from :
- Carboniferous period
 - Cretaceous period
 - Tertiary period
 - Jurassic period
12. Stream erosion carried out directly by impact force of flowing water is called :
- Corrosion
 - Deflation
 - Hydraulic action
 - Abrasion
13. The debit side of the earth's solar radiation budget shows that almost two thirds of the available units are :
- Reflected by the atmosphere
 - Absorbed and reradiated
 - Diffused radiation
 - Transferred from the earth to the atmosphere
14. The bulk of the world's wettest areas are associated with the :
- Subtropical highs
 - Equatorial trough of low pressure
 - Polar easterlies
 - Mid-latitude westerlies
15. Tropical cyclones do not occur close to the equator because :
- Of excessive heat
 - Of weak Coriolis force
 - Land and water contrasts are large
 - Of areas of calm air movements
16. Relative humidity of an air mass increases when :
- air temperature rises
 - condensation takes place
 - precipitation takes place
 - air temperature falls
17. Which of the following factors influence ocean currents ?
- Rotation of the Earth
 - Air pressure and wind
 - Ocean water density
 - Revolution of the earth
- Select the correct answer using the codes given below :
- 1 and 2
 - 1 and 4
 - 1, 2 and 3
 - 2, 3 and 4
18. Pelagic deposits consist of matter derived from algae and are mostly in the form of liquid mud known as :
- Blue mud
 - Red mud
 - Ooze
 - Coral mud
19. Which of the following currents belong to Indian Ocean ?
- Agulhas current
 - Labrador current
 - Canary current
 - Antilles current
20. The rate of decrease of temperature in oceans with increasing depth is more rapid near the :
- Equator
 - Poles
 - Tropic of Cancer
 - Tropic of Capricorn

21. Which of the following are the major factors responsible for the monsoon type of climate in India ?
1. Location
 2. Thermal contrast
 3. Upper air circulation
 4. The Himalayan Mountains
- Select the correct answer using the code given below :
- (A) 1 and 4 only
 (B) 1, 2, 3 and 4
 (C) 2, 3 and 4 only
 (D) 1, 2 and 3 only
22. The Karewas of Kashmir refers to which among the following types of deposits ?
- (A) Aeolian and glacial
 (B) Lacustrine
 (C) Fluvial
 (D) Volcanic
23. What is the name given to the foothills zone of Himalayas ?
- (A) Inner Himalayas
 (B) Siwalik
 (C) Middle Himalayas
 (D) Central Himalayas
24. 'Yellow Revolution' is associated with the production of :
- (A) Oil seeds
 (B) Poultry
 (C) Sunflower
 (D) Gold
25. In the 'Index of Eight Core Industries', which one of the following is given the highest weight ?
- (A) Coal production
 (B) Fertilizer production
 (C) Electricity generation
 (D) Steel production
26. Which of the following rivers is formed by two streams, the Chandra and Bhaga ?
- (A) Neelam
 (B) Ravi
 (C) Chenab
 (D) Sutlej
27. The amount of material utilized at any particular level in the food chain is called :
- (A) A consumption ratio
 (B) An atrophy level
 (C) A trophic level
 (D) A structural attendant
28. The optimistic view regarding the length of time that the earth's non-renewable resources will last is based on :
- (A) Improvements in technology
 (B) Reduction in population
 (C) Reduction in consumption
 (D) Increase in consumption
29. Which of the following is a tropical grassland ?
- (A) Savana
 (B) Pampas
 (C) Prairie
 (D) Taiga
30. An equilibrium state which is the result of vegetative change over a long period of time is called a(n) :
- (A) Climax
 (B) Invasion
 (C) Succulent
 (D) Succession

31. The biological ability of an area to provide sufficient food stuffs to support the population (of a particular species) of that area is called the :
- (A) Logistic growth constant
(B) Fluctuation equivalent
(C) Ecological plausibility
(D) Carrying capacity
32. Population dividend refers to :
- (A) Total number of population
(B) Relatively high proportion of experienced aged people
(C) Youthful age structure of a population
(D) Migration from richer region to poorer region
33. The late expanding phase of “demographic transition” is associated with :
- (A) Isolated and primitive tribes
(B) High birth rates and high death rates
(C) Stabilization of death rate at a low level
(D) Most of the third world
34. The part of the Malthusian equation never made completely clear is the :
- (A) The basis for the geometric growth of population
(B) Curtailment of population increases by birth control
(C) Biotic potential
(D) The basis for the arithmetic growth of agriculture
35. As the doubling time of population growth decreases the rate of growth :
- (A) Decreases
(B) Increases
(C) Stabilizes
(D) Triples
36. The largest reserves of coal in India occurs in :
- (A) Damodar basin
(B) Narmada basin
(C) Cauvery basin
(D) Godavari basin
37. The most important industrial crop of India is :
- (A) Tea
(B) Sugarcane
(C) Coffee
(D) Cotton
38. Which of the following is the largest steel plant of India ?
- (A) Vishakhapatnam steel plant
(B) Daitari steel plant
(C) Salem steel plant
(D) Bokaro steel plant
39. Many parts of India face difficulty in producing multiple crops because :
- (A) Temperature fluctuates in extreme
(B) Monsoons are unpredictable
(C) Water is not easily available
(D) It is not economically viable
40. Crop rotation is being adopted to increase the :
- (A) Crop yield
(B) Productivity of the land
(C) Soil water
(D) Crop resistance to pests

41. The distance between parallels in Mercator's projection :
- (A) Decreases towards the poles
 - (B) Increases towards the poles
 - (C) Remains same throughout
 - (D) Increases towards the equator
42. Actual heights of places above sea level are represented by :
- (A) Contours
 - (B) Layer colouring
 - (C) Spot height
 - (D) Hachures
43. Which of the following profiles show only the ruggedness of the sky-line ?
- (A) Projected profiles
 - (B) Super-imposed profiles
 - (C) Composite profiles
 - (D) Longitudinal profile
44. The direct use of an aerial photograph as a map is prevented by :
- (A) Very wide variation in the scale
 - (B) Horizontal displacement
 - (C) Vertical displacement
 - (D) The inability to measure the relief
45. Multi-variable climate data can be best shown by :
- (A) Dots
 - (B) Circles
 - (C) Graphs
 - (D) Shades
46. Which among the following is not a segment of GPS ?
- (A) Space segment
 - (B) Control segment
 - (C) User segment
 - (D) Variable segment
47. Contours of equal spacing represent :
- (A) Uniform slope
 - (B) Gentle slope
 - (C) Steep slope
 - (D) Convex slope
48. Which of the following is a classification based on the instrument used ?
- (A) Traverse surveying
 - (B) Topographic surveying
 - (C) Hydrographic surveying
 - (D) Cadastral surveying
49. Which among the following methods of plane table survey is suitable for locating inaccessible points ?
- (A) Radiation
 - (B) Resection
 - (C) Intersection
 - (D) All the above
50. Which of the following scales is used to accurately measure minute divisions ?
- (A) Plain scale
 - (B) Comparative scale
 - (C) Diagonal scale
 - (D) Vernier's scale

51. When the values in a series are not of equal importance, we calculate the :
- (A) Mode
 - (B) Weighted mean
 - (C) Geometric mean
 - (D) Arithmetic mean
52. To measure the consistency between the two or more than two series we use :
- (A) Combined standard deviation
 - (B) Corrected standard deviation
 - (C) Coefficient of skewness
 - (D) Coefficient of variation
53. In a scattered diagram, if most of the points lie in the first and third quadrants, then coefficient of correlation is :
- (A) Zero correlation
 - (B) Negative correlation
 - (C) Positive correlation
 - (D) High negative correlation
54. When the ratio of variations in the related variables is constant, it is called :
- (A) Negative correlation
 - (B) Positive correlation
 - (C) Nonlinear correlation
 - (D) Linear correlation
55. Questionnaire is filled by :
- (A) Enumerator
 - (B) Respondent
 - (C) Everybody
 - (D) A special person
56. Disaster is an event arising out of :
- (A) Result of hazard event
 - (B) Causes of hazard event Respondent
 - (C) Causes of disaster event
 - (D) All of the above
57. Which of the following is not a component of disaster management cycle ?
- (A) Preparedness
 - (B) Construction
 - (C) Response
 - (D) Recovery
58. Which of the following is not an example of a rapid on-set of disaster ?
- (A) Earthquake
 - (B) Cyclone
 - (C) Drought
 - (D) Tsunami
59. What types of disasters are most predominant in India ?
- (A) Drought
 - (B) Earthquake
 - (C) Flood
 - (D) Cyclone
60. In India Tsunami warning centre is located at :
- (A) Ahmadabad
 - (B) Kolkata
 - (C) Vishakhapatnam
 - (D) Hyderabad

ROUGH WORK

Sr. No.474.....

ENTRANCE TEST-2020

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

GEOGRAPHY

Total Questions : 60

Question Booklet Series **B**

Time Allowed : 70 Minutes

Roll No. :

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JJ-315-B

1
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[Turn over

SEAL

1. The four great clusters of population in the world are :
- East Asia, South Asia, Europe, North America
 - East Asia, South Asia, Europe, Africa
 - East Asia, South Africa, Europe, North America
 - East Asia, South Asia, North America, South America
2. Optimum Theory of Population was given by :
- Carr Saunders and Malthus
 - Edwin Cannan, Dalton and Carr Saunders
 - Rosenstein Rodan, Schumpeter and Ricardo
 - Marshall, Schumpeter and Ricardo
3. Which of the following is characterised by the second stage of demographic transition ?
- Low birth rate and high death rate
 - High birth rate and high death rate
 - High birth rate and declining death rate
 - Low birth rate and low death rate
4. Some analysts point to a future problem in countries such as Japan, Italy, and Canada where the swelling ranks of the elderly have fewer and fewer young people to support them in old age. This condition is referred to as :
- The demographic transition
 - Overpopulation
 - An absence of fecundity
 - Underpopulation
5. The global distribution of different types of terrestrial biomes is most directly influenced by :
- Climatic factors
 - Biotic factors
 - Topographic features
 - Soil characteristics
6. A lake or pond community is also known as a :
- Pelagic community
 - Lentic community
 - Benthic community
 - Lotic community
7. Which of the following can be threats to the biodiversity of a geographical area ?
- Global warming
 - Fragmentation of habitat
 - Invasion of alien species
 - Promotion of vegetarianism
- Select the correct answer using the codes given below :
- I and IV only
 - II and III only
 - I, II and III only
 - I, II, III and IV
8. A series of protected areas linked through a global network, intended to demonstrate the relationship between conservation and development is called as :
- Biosphere reserve
 - National park
 - Bird sanctuaries
 - Wildlife sanctuaries

9. The Aravalli Range runs across which of the following pairs of Indian States ?

- (A) Gujarat, Rajasthan, Punjab and Delhi
- (B) Nepal, Rajasthan, Haryana and Delhi
- (C) Gujarat, Rajasthan, UP and Delhi
- (D) Gujarat, Rajasthan, Haryana and Delhi

10. Match List—I with List—II and select the correct answer using the codes below :

List—I		List—II	
(Source Region)		(Rivers)	
I. Chottanagpur plateau		1. Cauvery	
II. Verinag spring		2. Krishna	
III. Brahmangiri hills		3. Jhelum	
IV. Mahabaleshwar		4. Subernarekha	

- | | I | II | III | IV |
|-----|---|----|-----|----|
| (A) | 1 | 3 | 4 | 2 |
| (B) | 2 | 3 | 4 | 1 |
| (C) | 4 | 3 | 1 | 2 |
| (D) | 4 | 2 | 1 | 3 |

11. The concept of differential heating was primarily given to explain which of the following geographical phenomena in India ?

- (A) Monsoon
- (B) Desert Storms
- (C) Jet Streams
- (D) Cyclones

12. Match the following local storms with their correct definition :

- | | |
|-------------------|-------------------------------------------------------------------|
| i. Blossom Shower | 1. Pre-Monsoon showers which help in blossoming of coffee flowers |
| ii. Nor Westers | 2. Pre-Monsoon showers which help in the ripening of mangoes |
| iii. Mango Shower | 3. Evening thunderstorms in Bengal and Assam |
| iv. Loo | 4. Hot, dry and oppressing winds blowing in Northern plains |

- | | i | ii | iii | iv |
|-----|---|----|-----|----|
| (A) | 1 | 2 | 3 | 4 |
| (B) | 2 | 1 | 4 | 3 |
| (C) | 3 | 4 | 1 | 2 |
| (D) | 1 | 3 | 2 | 4 |

13. Consider the following statements :

1. Central Rice Research institution is located in Bengaluru.
2. Agriculture sector directly employs 65% of labour force in India.
3. The impact of green revolution is felt most in the production of wheat.

Which statements are correct ?

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

14. Which one of the following groups of iron and steel plants is located within the Chottanagpur region ?

- (A) Madurai, Mettur, Salem
- (B) Bokaro, Rourkela, Burnpur
- (C) Sharavati, Pykara, Mettur
- (D) Salem, Villupuram, Sharavati

15. Which agency is responsible for procurement, distribution and storage of food grain production in India ?

- (A) Food Corporation of India
- (B) NAFED
- (C) Ministry of Agriculture
- (D) TRIFED

16. Which of the following industries provides maximum number of employment in India ?

- (A) Paper industry
- (B) Iron and Steel industry
- (C) Cement industry
- (D) Cotton Textile industry

17. Between which ranges does the Kashmir valley in the Himalayas lie ?

- (A) Pir Panjal and Dhauladhar
- (B) Dhauladhar and Zaskar
- (C) Zaskar and Pir Panjal
- (D) Siwalik and Pir Panjal

18. Match the following correctly :

List—I (Hydroelectric Projects)	List—II (Rivers)
------------------------------------	---------------------

- | | |
|----------------|-----------|
| i. Baghliar | 1. Jhelum |
| ii. Nimo Bazgo | 2. Indus |
| iii. Uri | 3. Chinab |

Codes :

- | | i | ii | iii |
|-----|---|----|-----|
| (A) | 3 | 2 | 1 |
| (B) | 3 | 1 | 2 |
| (C) | 1 | 3 | 2 |
| (D) | 1 | 2 | 3 |

19. Which of the following districts of Jammu and Kashmir has the highest density of population as per 2011 census ?

- (A) Kupwara
- (B) Budgam
- (C) Rajouri
- (D) Doda

20. Match the following List—I with List—II correctly :

List—I (Wildlife Sanctuary)	List—II (District)
--------------------------------	-----------------------

- | | |
|--------------------|-------------|
| i. Hirpora | 1. Gandeбал |
| ii. Trikuta | 2. Shopian |
| iii. Changthang | 3. Resai |
| iv. Baltal-Thajwas | 4. Leh |

Codes :

- | | i | ii | iii | iv |
|-----|---|----|-----|----|
| (A) | 2 | 3 | 1 | 4 |
| (B) | 3 | 1 | 4 | 2 |
| (C) | 2 | 3 | 4 | 1 |
| (D) | 1 | 2 | 3 | 4 |

21. Which of the following is/are the secondary skills which are useful for disaster managers ?
- (A) Disaster assessment
 - (B) Refugee camp planning
 - (C) Law enforcement
 - (D) All the above
22. The process of identifying the probability of occurrence of a natural hazard of a given intensity at a specific location based on an analysis of natural processes and site conditions is termed as :
- (A) Disaster calculation
 - (B) Hazard Assessment
 - (C) Hazard calculation
 - (D) None of the above
23. Which of the following is an example of a rapid-onset disaster ?
- (A) Drought
 - (B) Famine
 - (C) Epidemic
 - (D) Earthquake
24. The disaster which occurred at Chernobyl (USSR), Three Mile Island (USA) and Fukusima (JAPAN) are all related to :
- (A) Nuclear disasters
 - (B) Epidemic disasters
 - (C) Chemical disasters
 - (D) Flood disasters
25. Which of the following is not the part of 'The Involvement Stage' of the Butler's theory of tourism development ?
- (A) Local residents become involved in tourism
 - (B) Successful redevelopment leads to renewed growth
 - (C) Emergence of secondary tourism facilities such as guest houses
 - (D) Pressure develops for governments to improve transport for tourists
26. Sustainable tourism as a concept is closely linked to which of the following ?
- (A) Sustainable mobility
 - (B) Reliable electricity
 - (C) Road worthiness
 - (D) Hospitality
27. The travel advisory issued by a government for its citizens leads to what type of demand for tourism ?
- (A) Potential demand
 - (B) Effective demand
 - (C) No demand
 - (D) Deferred demand
28. The Indian Institute of Skiing and Mountaineering is located in :
- (A) Yusmarg
 - (B) Sonamarg
 - (C) Gulmarg
 - (D) Pahalgam

29. Match the following correctly :

List—I (Cartographic Methods)	List—II (Maps)
i. Chorochromatic	1. Density of population
ii. Choropleth	2. Contour
iii. Choroschematic	3. Administrative map
iv. Isopleth	4. Use of letters like W=Wheat, P=Paddy

Codes :

	i	ii	iii	iv
(A)	2	3	1	4
(B)	3	1	4	2
(C)	1	3	4	3
(D)	1	2	3	4

30. Which of the following does not belong to the category of cartographic elements of a map ?

- (A) Grid
- (B) Bar scale
- (C) Cardinal direction
- (D) Legends

31. Which of the following are the steps for digital map making process ?

- I. Preparation of grid
- II. Import of cloud of points
- III. Drawing of objects and contours
- IV. Taking of printout

Choose the correct options :

- (A) I and II only
- (B) I and IV only
- (C) II, III and IV only
- (D) I, II and III only

32. If a map is drawn on RF 1/5500, which one of the following representative fractions will be correct if the map is reduced to half ?

- (A) 1/2750
- (B) 1/11000
- (C) 1/5000
- (D) 1/33000

33. Which of the following is well adopted for Chain surveying ?

- (A) Small areas in open ground
- (B) Small areas with crowded details
- (C) Large areas with simple details
- (D) Large areas with difficult details

34. After fixing the plane table to the tripod, the main operations which are needed at each plane table station are :

- (i) Levelling
- (ii) Orientation
- (iii) Centring

The correct sequence of these operations is :

- (A) (i), (ii), (iii)
- (B) (i), (iii), (ii)
- (C) (iii), (i), (ii)
- (D) (ii), (iii), (i)

35. Remote Sensing satellites generally orbit in :
- Sun-synchronous
 - Geostationary
 - Geo-synchronous
 - None of the above
36. Indian equivalent of GPS navigation system is known as :
- GALILEO
 - NAVIC
 - IKONOS
 - GLONASS
37. Analysis of variance is a statistical method of comparing which of the following ?
- Standard deviations
 - Variances
 - Means
 - Proportions
38. The study of functional relationship between the variables, making it possible to predict/estimate the unknown value of one of the variables from the known value of the other is known as :
- Correlational Analysis
 - Regression Analysis
 - Mean Difference Analysis
 - None of these
39. Which of the following is used to compare the consistency of two or more sets of data ?
- Coefficient of Skewness
 - Coefficient of Correlation
 - Coefficient of Kurtosis
 - Coefficient of Variation
40. Mean marks of 150 students were found to be 50. Later it was found that a score of 87 was misread as 78. What is the correct mean ?
- 49.9
 - 59.5
 - 50.09
 - 51.05
41. Who among the following defined geography as discovery of predictive patterns during quantitative revolution period ?
- P. Hagget
 - D. Stewart
 - W. Bunge
 - D. Harvey
42. Who have contributed to the solution of the controversy of Regional vs. Systematic geography ?
- Richthofen and Hattner
 - Ritter and Ratzel
 - Ritter and Humbolt
 - Hattner and Peschel
43. Cephalic index which is to classify human races is calculated as :
- Ratio between the length and breadth of the nose
 - Ratio between the length and breadth of the head
 - Ratio between the length of the head and weight of body
 - Ratio between flatness and length of the head

1. A Plateau lying to the west of the Armenian knot, bordered by Pontic mountains to the North and Taurus mountains to the South is :
 - (A) Anatolian plateau
 - (B) Tibetan plateau
 - (C) Iranian plateau
 - (D) Siestan plateau
2. A zone of transition between two Biomes is called :
 - (A) Ecosystem
 - (B) Biosphere
 - (C) Bioreserve
 - (D) Ecotone
3. Which of the following mountain ranges is not a part of Alpine mountain system ?
 - (A) Carpathian mountains
 - (B) Pyrenees mountains
 - (C) Balkan mountains
 - (D) Caledonian mountains
4. The Baglihar hydroelectric power project built on the river Chenab is located in the district :
 - (A) Kishtawar
 - (B) Kathua
 - (C) Doda
 - (D) Baramulla
5. The entire planning technique in India has been based on the model papered by :
 - (A) P. C. Mahalanobis
 - (B) Friedman
 - (C) Domar
 - (D) V. M. Danderkar
6. Into how many climatic regions has L.D. Stamp divided Asia ?
 - (A) 08
 - (B) 09
 - (C) 10
 - (D) 12
7. Which one of the following is not among the six stages of Buttlar's tourist cycle area evolution ?
 - (A) Exploration stage
 - (B) Involvement stage
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 - (A) Anatolian plateau
 - (B) Tibetan plateau
 - (C) Iranian plateau
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2. A zone of transition between two Biomes is called :
 - (A) Ecosystem
 - (B) Biosphere
 - (C) Bioreserve
 - (D) Ecotone
3. Which of the following mountain ranges is not a part of Alpine mountain system ?
 - (A) Carpathian mountains
 - (B) Pyrenees mountains
 - (C) Balkan mountains
 - (D) Caledonian mountains
4. The Baglihar hydroelectric power project built on the river Chenab is located in the district :
 - (A) Kishtawar
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 - (C) Doda
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5. The entire planning technique in India has been based on the model papered by :
 - (A) P. C. Mahalanobis
 - (B) Friedman
 - (C) Domar
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