

Sr. No.441.....

ENTRANCE TEST-2024
SCHOOL OF EARTH & ENVIRONMENTAL 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.
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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.
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9. Do not make any stray mark on the OMR sheet.
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1. 'Nature is never more than an adviser' is the essence of :
 - (A) Environmentalism
 - (B) Neo-determinism
 - (C) Possibilism
 - (D) Radicalism
2. 'Principles of Human Geography' was authored by :
 - (A) E. Huntington
 - (B) E.C. Semple
 - (C) F. Ratzel
 - (D) G. Taylor
3. Bushmen live in :
 - (A) Mudhouse
 - (B) Cave
 - (C) Igloo
 - (D) Scherms
4. Which of the following is not a subfield of human geography ?
 - (A) Population Geography
 - (B) Urban Geography
 - (C) Physical Geography
 - (D) Economic Geography
5. Which of the following is unrelated to Plate Tectonics Theory ?
 - (A) Sea Floor Spreading
 - (B) Alfred Wegener
 - (C) Folded Mountains
 - (D) Benioff Zones
6. The principle of continents being in buoyant equilibrium is known as :
 - (A) Isostasy
 - (B) The principle of buoyant equilibrium
 - (C) The elastic rebound theory
 - (D) None of these
7. Lithosphere is composed of :
 - (A) Crust and Mantle
 - (B) Mantle only
 - (C) Crust and Upper Mantle
 - (D) Crust only
8. Which of the following is not considered a characteristic feature of the youthful stage of an ideal normal cycle of erosion ?
 - (A) Natural Levees
 - (B) Potholes
 - (C) River Capture
 - (D) Gorges

9. Mauna Loa is an example of :
- (A) Active volcano
 - (B) Dormant volcano
 - (C) Extinct volcano
 - (D) Plateau
10. Which of the following pairs of landforms are created by glacial erosion ?
- (A) Yardang and Zeugen
 - (B) Loess and Seif
 - (C) Stalactite and Stalagmite
 - (D) Cirque and Hanging Valley
11. Which of the following is not true about weathering ?
- (A) Weathering aids mass wasting and erosion and reduces relief
 - (B) Weathering helps enrich certain minerals like iron and copper ores
 - (C) Weathering of rocks aids soil formation
 - (D) Plants, animals, and microorganisms have no role in weathering
12. Shale is an example of :
- (A) Igneous rock
 - (B) Sedimentary rock
 - (C) Metamorphic rock
 - (D) A mineral
13. Among the following layers of the atmosphere, the minimum temperature in the atmosphere occurs in :
- (A) Tropopause
 - (B) Stratopause
 - (C) Mesopause
 - (D) Thermosphere
14. The process of transfer of energy or heat without the help of any material medium is known as :
- (A) Insolation
 - (B) Radiation
 - (C) Convection
 - (D) Conduction
15. Seasonal contrast in pressure between land and sea gives rise to :
- (A) Land and Sea breezes
 - (B) Westerly winds
 - (C) Trade winds
 - (D) Monsoons
16. The calm area at the centre of the cyclone is referred to as :
- (A) Epicentre
 - (B) Focus
 - (C) Eye
 - (D) Core

17. Which one of the following is not a cold current ?
- Kuroshio Current
 - Humboldt Current
 - Labrador Current
 - California Current
18. High ocean water salinity is observed in :
- Polar region
 - Sub-polar region
 - Sub-tropical region
 - Equatorial region
19. Ninety-East Ridge is found in :
- Indian Ocean
 - Atlantic Ocean
 - Rocky Mountain
 - Andes Mountain
20. Which one of the following regions has the largest coral reefs in India ?
- Lakshadweep
 - Andaman and Nicobar
 - Gulf of Kutch
 - Gulf of Mannar
21. In a population, the rate of addition of new members is higher than the rate of individuals lost. It shows :
- Zero population growth
 - Exponential growth
 - Declined growth
 - None of these
22. Who predicted that 'the population would increase by a geometric progression while food production would increase in arithmetic progression' ?
- Warren Thompson
 - Adolphe Landry
 - Frank W. Notestein
 - Thomas Robert Malthus
23. In India, the human population has a higher number of younger age groups because of :
- Birth rate is equal to death rate
 - Short life span and low birth rate
 - Short life span and high birth rate
 - Long life span and low birth rate
24. Which of the following stages of demographic transition indicate the state of underdevelopment ?
- High stationary stage
 - Early expanding stage
 - Late expanding stage
 - Low stationary stage
25. Mangrove forests are the best example of :
- Ecotone
 - Biome
 - Niche
 - Ecological succession

26. The area in which an organism can live and which affords it relatively favourable conditions for existence is called :
- (A) Society
 - (B) Environment
 - (C) Biome
 - (D) Habitat
27. For the conservation of biological resources in India, The Biological Diversity Act was enacted in :
- (A) 1986
 - (B) 2002
 - (C) 2006
 - (D) 2010
28. Which of the following gases has the highest Global Warming Potential ?
- (A) Carbon monoxide
 - (B) Carbon dioxide
 - (C) Chlorofluorocarbons
 - (D) Methane
29. The River Indus originates from :
- (A) Bara Lapcha La
 - (B) Near Rohtang Pass
 - (C) Near Manasarovar Lake
 - (D) Verinag
30. As per Koppen's Climatic Regions of India, Jammu and Kashmir falls under :
- (A) Cold humid with short summer (Dfc)
 - (B) Polar (E)
 - (C) Polar Tundra (ET)
 - (D) Mountain climate (H)
31. The Tibetan Plateau and its related theory of Monsoon was given by :
- (A) R.L. Singh
 - (B) Pancheti Koteswaram
 - (C) Al Masudi
 - (D) Sir Edmund Halley
32. Alluvial soils are found in India in which of the following regions ?
- (A) Brahmaputra Valley
 - (B) Karnataka Plateau
 - (C) Deccan Trap
 - (D) Jammu and Kashmir
33. "Shree Anna" refers to :
- (A) Rice
 - (B) Potato
 - (C) Tapioca
 - (D) Millets

34. Which of the following industrial regions of India is called as 'Ruhr of India' ?
- (A) Bengaluru-Madurai Industrial Region
 - (B) Visakhapatnam-Guntur Industrial Region
 - (C) Ahmedabad-Vadodara Industrial Region
 - (D) Chotanagpur Industrial Region
35. Which city of India is known as 'Manchester of India' ?
- (A) Surat
 - (B) Ahmedabad
 - (C) Srinagar (J&K)
 - (D) Ludhiana
36. Which one of the following is not correct ?
- (A) White Revolution refers to Dairy Farming
 - (B) Green Revolution refers to Forestry
 - (C) Blue Revolution refers to Fishing
 - (D) Grey Revolution refers to Fertilizers
37. Which of the following places in India does not get the Sun's Vertical rays ?
- (A) Kanyakumari
 - (B) Bangalore
 - (C) Nagpur
 - (D) Srinagar (J&K)
38. Saffron is best cultivated in Karewas soil from the Karewa Formation in Kashmir. The age of the Karewa Formation is :
- (A) Holocene
 - (B) Plio-Pleistocene
 - (C) Permian
 - (D) Silurian
39. The Uri Dam is located on which river in Jammu & Kashmir ?
- (A) Jhelum River
 - (B) Beas River
 - (C) Chenab River
 - (D) Ravi River
40. Which one is the smallest National Park in Jammu and Kashmir ?
- (A) Kishtwar National Park
 - (B) Hemis National Park
 - (C) Salim Ali National Park
 - (D) Dachigam National Park
41. The greatest amount of destruction caused by an earthquake occurs at :
- (A) Zone of subduction
 - (B) Epicentre
 - (C) Hypocentre
 - (D) Hadley's Zone

42. The descent of material down a slope, specifically the hurtling down of a mass compounded with ice and rock, is known as :
- (A) Tsunami
(B) Earthquake
(C) Debris Flow
(D) Avalanche
43. Disaster risk is a function of :
- (A) Hazard
(B) Exposure
(C) Vulnerability
(D) All of these
44. Which one is not a man-made disaster ?
- (A) Hurricanes
(B) Cyberattack
(C) Groundwater Contamination
(D) Chemical Spills
45. The correct order of stages as per Butler's Tourism Area Life Cycle (TALC) model :
- (A) Decline, Consolidation, Involvement, Exploration, Development, Stagnation
(B) Exploration, Involvement, Development, Consolidation, Stagnation, Decline
(C) Development, Consolidation, Exploration, Involvement, Stagnation, Decline
(D) Stagnation, Decline, Consolidation, Exploration, Involvement, Development
46. National Tourism Policy was implemented in the year :
- (A) 2000
(B) 2001
(C) 2002
(D) 2003
47. "Tourism that takes full account of its current and future economic, social and environmental impacts, addressing the needs of visitors, the industry, the environment and host communities" — refers to :
- (A) Ecotourism
(B) Carrying capacity
(C) Responsible travel
(D) Sustainable tourism
48. Which tourist place in Jammu and Kashmir is most famous for Skiing ?
- (A) Gulmarg
(B) Yusmarg
(C) Yumthang
(D) Narkanda
49. A map with a scale of 1:50,000 is enlarged to 5 times; which one of the following scales is correct for the enlarged map ?
- (A) 1:25,000
(B) 1:10,000
(C) 1:100,000
(D) 1:250,000

50. The advance of the Southwest Monsoon is shown on the Map of India using :
- (A) Isochrones
(B) Isohyets
(C) Isobars
(D) Isotachs
51. Which projection system is used by Survey of India Open Series Map (OSM) toposheets ?
- (A) Polyconic
(B) Lambert Conformal Conic
(C) Bonne's
(D) UTM
52. Which of the following cartographic methods is generally used to show population density ?
- (A) Isopleth
(B) Choropleth
(C) Chorochromatic
(D) Dot density
53. In a prismatic compass survey, bearings are measured with reference to :
- (A) Grid North
(B) Geographic North
(C) Magnetic North
(D) Assumed North
54. Which one of the following Indian Remote Sensing satellites provides the highest spatial resolution ?
- (A) Resourcesat
(B) Cartosat
(C) Oceansat
(D) RISAT
55. The main purpose of the overlap of consecutive aerial photo pairs is :
- (A) Tonal clarity
(B) Scale determination
(C) Stereoscopy
(D) Mosaic preparation
56. Which one of the following is not a Global Navigation Satellite System (GNSS) constellation ?
- (A) World View
(B) NavIC
(C) GPS
(D) Galileo
57. Mean, Median, and Mode coincide if the distribution of values is :
- (A) Negatively skewed
(B) Positively skewed
(C) Normal
(D) None of the above

58. The sum of deviations from which of the following measures of central tendency is always zero ?
- (A) Median
 - (B) Mode
 - (C) Mean
 - (D) All of the above
59. Which dataset has a higher relative variability: Dataset P with an Arithmetic Mean of 30 and a Standard Deviation of 5, or Dataset Q with an Arithmetic Mean of 40 and a Standard Deviation of 6 ?
- (A) Dataset P
 - (B) Dataset Q
 - (C) Both have the same relative variability
 - (D) Cannot be determined from the given information
60. If the coefficient of correlation $r_{XY}=0$, then the variables X and Y are :
- (A) Independent
 - (B) Variables are uncorrelated
 - (C) No linear relation between them
 - (D) All of the above

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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
Time Allowed : 70 Minutes

Question Booklet Series **A**

Roll No. :

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2. Following the orthodox structure of geography, economic geography is a subset of which of the following ?
 - (A) Philosophy
 - (B) Regional
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 - (D) Systematic
3. Who founded the school of possibilism ?
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 - (B) L. Febrve
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- air temperature rises
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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
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18. Pelagic deposits consist of matter derived from algae and are mostly in the form of liquid mud known as :
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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 :
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 - (B) 1, 2, 3 and 4
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 - (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
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 (B) Monsoons are unpredictable
 (C) Water is not easily available
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 (B) Productivity of the land
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21.

41. The distance between parallels in Mercator's projection :
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- Result of hazard event
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 - Cyclone
 - Drought
 - Tsunami
59. What types of disasters are most predominant in India ?
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60. In India Tsunami warning centre is located at :
- Ahmadabad
 - Kolkata
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Sr. No.

ENTRANCE TEST-2021

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

GEOGRAPHY

Question Booklet Series

A

Total Questions : 60

Time Allowed : 70 Minutes

Roll No. :

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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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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.

JJ-315-B

1
**

[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

SEAL

21. Which of the following is/are the secondary skills which are useful for disaster managers ?
- Disaster assessment
 - Refugee camp planning
 - Law enforcement
 - 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 :
- Disaster calculation
 - Hazard Assessment
 - Hazard calculation
 - None of the above
23. Which of the following is an example of a rapid-onset disaster ?
- Drought
 - Famine
 - Epidemic
 - Earthquake
24. The disaster which occurred at Chernobyl (USSR), Three Mile Island (USA) and Fukusima (JAPAN) are all related to :
- Nuclear disasters
 - Epidemic disasters
 - Chemical disasters
 - Flood disasters
25. Which of the following is not the part of 'The Involvement Stage' of the Butler's theory of tourism development ?
- Local residents become involved in tourism
 - Successful redevelopment leads to renewed growth
 - Emergence of secondary tourism facilities such as guest houses
 - Pressure develops for governments to improve transport for tourists
26. Sustainable tourism as a concept is closely linked to which of the following ?
- Sustainable mobility
 - Reliable electricity
 - Road worthiness
 - Hospitality
27. The travel advisory issued by a government for its citizens leads to what type of demand for tourism ?
- Potential demand
 - Effective demand
 - No demand
 - Deferred demand
28. The Indian Institute of Skiing and Mountaineering is located in :
- Yusmarg
 - Sonamarg
 - Gulmarg
 - 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
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 - Rectangular
40. What would be the R.F. when a map of 1 cm = 60 km is reduced to one-third ?
- 1:18,000,000
 - 1:3,168,000
 - 1:1,000,000
 - 1:20,000
41. India is expected to be the most populous country by 2050 surpassing :
- USA
 - Brazil
 - Russia
 - China
42. A country having zero population growth would be characterized by the following factors except :
- Increased proportion of older citizens
 - Lots of young people
 - Rise in median age population
 - Fewer young people
43. Who among the following asserted that the power of population to reproduce is much greater than the power of earth to produce food for them ?
- Thomas Malthus
 - W.S. Thompson
 - F.N. Notestein
 - W. Zelinkesy
44. The mobility transition model of migration was put forth by :
- Zipf
 - Zelinkesy
 - Thompson
 - Stopher
45. The term Ecology was coined by a German biologist named :
- Ernest Haeckel
 - E.P. Odum
 - Isidore Geoffroy
 - G.J. Mivert
46. Agriculture region is an example of :
- Functional region
 - Homogenous region
 - Nodal region
 - Axial region
47. The natural ability of an Ecosystem to restore a state of equilibrium in it is called :
- Equilibrium state
 - Steady state
 - Homeostasis
 - All of the above
48. D. Whittlesey has classified the world into how many agricultural regions ?
- 10
 - 11
 - 12
 - 13

49. The largest physiographic division of India by area is :
- Himalayan mountains
 - Indo-gangetic plain
 - Peninsula plateau
 - Coastal plains
50. Among the following Indian rivers, which one is not antecedent in nature :
- Indus
 - Son
 - Ganga
 - Sutlej
51. Which one of the following States does not receive much rainfall during the south-west monsoon season ?
- Tamil Nadu
 - Kerala
 - Karnataka
 - Assam
52. The length of Gunters chain is :
- 100 ft.
 - 80 ft.
 - 66 ft.
 - 50 ft.
53. Which of the following is not among the major characteristics of Indian agriculture ?
- Small size of landholdings
 - Subsistence farming
 - Commercial nature
 - High dependency on monsoon
54. The oldest and the richest coal field of India as per quantity of production and quality is :
- Jharia
 - Bokaro
 - Makum-Nazira
 - Raniganj
55. In India the leading producer of Sugar cane is :
- U.P.
 - Karnataka
 - Tamil Nadu
 - Gujarat
56. Which of the following is not among the major components of Green Revolution in India ?
- HYV seeds
 - Use of chemical fertilizers
 - Land reforms
 - Subsistence agriculture
57. Which sector contributes largest share to economy of J & K ?
- Tourism
 - Agriculture
 - Trade
 - Industry
58. Bulk of the precipitation in the State of Jammu and Kashmir is received through :
- Western disturbances
 - South west monsoon
 - North east monsoon
 - None of the above
59. The valley of Kashmir lies between which of the following mountain ranges :
- Suleiman and Kirthar
 - Zaskar and Ladakh
 - Pir-panjal and Zaskar
 - Pir-panjal and Karakoram
60. Which of the following continents is *not* divided by the equator ?
- Asia
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40. What would be the R.F. when a map of 1 cm = 60 km is reduced to one-third ?
- 1:18,000,000
 - 1:3,168,000
 - 1:1,000,000
 - 1:20,000
41. India is expected to be the most populous country by 2050 surpassing :
- USA
 - Brazil
 - Russia
 - China
42. A country having zero population growth would be characterized by the following factors except :
- Increased proportion of older citizens
 - Lots of young people
 - Rise in median age population
 - Fewer young people
43. Who among the following asserted that the power of population to reproduce is much greater than the power of earth to produce food for them ?
- Thomas Malthus
 - W.S. Thompson
 - F.N. Notestein
 - W. Zelinkesy
44. The mobility transition model of migration was put forth by :
- Zipf
 - Zelinkesy
 - Thompson
 - Stopher
45. The term Ecology was coined by a German biologist named :
- Earnest Haeckel
 - E.P. Odum
 - Isidou Geoffroy
 - G.J. Mivert
46. Agriculture region is an example of :
- Functional region
 - Homogenous region
 - Nodal region
 - Axial region
47. The natural ability of an Ecosystem to restore a state of equilibrium in it is called :
- Equilibrium state
 - Steady state
 - Homeostasis
 - All of the above
48. D. Whittlesey has classified the world into how many agricultural regions ?
- 10
 - 11
 - 12
 - 13

49. The largest physiographic division of India by area is :
- Himalayan mountains
 - Indo-gangetic plain
 - Peninsula plateau
 - Coastal plains
50. Among the following Indian rivers, which one is not antecedent in nature :
- Indus
 - Son
 - Ganga
 - Sutlej
51. Which one of the following States does not receive much rainfall during the south-west monsoon season ?
- Tamil Nadu
 - Kerala
 - Karnataka
 - Assam
52. The length of Gunters chain is :
- 100 ft.
 - 80 ft.
 - 66 ft.
 - 50 ft.
53. Which of the following is not among the major characteristics of Indian agriculture ?
- Small size of landholdings
 - Subsistence farming
 - Commercial nature
 - High dependency on monsoon
54. The oldest and the richest coal field of India as per quantity of production and quality is :
- Jharia
 - Bokaro
 - Makum-Nazira
 - Raniganj
55. In India the leading producer of Sugar cane is :
- U.P.
 - Karnataka
 - Tamil Nadu
 - Gujarat
56. Which of the following is not among the major components of Green Revolution in India ?
- HYV seeds
 - Use of chemical fertilizers
 - Land reforms
 - Subsistence agriculture
57. Which sector contributes largest share to economy of J & K ?
- Tourism
 - Agriculture
 - Trade
 - Industry
58. Bulk of the precipitation in the State of Jammu and Kashmir is received through :
- Western disturbances
 - South west monsoon
 - North east monsoon
 - None of the above
59. The valley of Kashmir lies between which of the following mountain ranges :
- Suleiman and Kirthar
 - Zaskar and Ladakh
 - Pir-panjal and Zaskar
 - Pir-panjal and Karakoram
60. Which of the following continents is *not* divided by the equator ?
- Asia
 - Africa
 - Australia
 - South America