

Reg. No.....

(Pages : 4)

S.U. 8730

Name.....

M.Sc. ENTRANCE EXAMINATION, MAY 2018

GEOGRAPHY

Time : Two Hours

Total Marks : 100

I. Answer all questions (25x2= 50)

1. Which one of the following is not factor that affects wind?
(A) Pressure gradient
(B) Friction
(C) Magnetism
(D) Coriolis effect
2. Seasonal contrast in pressure between land and sea gives rise to :
(A) Monsoons
(B) Westerly winds
(C) Land and Sea breezes
(D) Trade winds
3. 'Montreal Protocol' is related to
(A) Global Warming
(B) Ozone Depletion
(C) Air Pollution
(D) Water Pollution
4. A large numbers of herbivorous animals and carnivorous such as lions, jackals and hyenas are found in
(A) Equatorial rainforest
(B) Taiga
(C) Campos of Brazil
(D) Savannas of Africa
5. 'Negative southern Oscillation index' refers to which of the following?
(A) Favourable condition for El Nino
(B) Favourable condition for La Nino
(C) Favorable condition for both El Nino & La Nino
(D) Unfavorable condition for both El Nino & La Nino
6. Which one of the following is the correct sequence (in the ascending order) of EMR spectral bands?
(A) Blue - Green - Red - Ultra Violet
(B) Ultra Violet - Blue - Green - Red
(C) Ultra Violet - Red - Blue - Green
(D) Green - Red - Blue - Ultra Violet

Turn over

7. Which one of the following is correct statement for Patna city in Bihar?
 - (A) Edge City
 - (B) World City
 - (C) Post Industrial City
 - (D) Primate City
8. Indian climate is an example of
 - (A) Equatorial
 - (B) Subtropical
 - (C) Tropical monsoon
 - (D) Mediterranean
9. In which one of the following atmospheric layers temperature remain constant?
 - (A) Stratosphere
 - (B) Tropopause
 - (C) Mesosphere
 - (D) Troposphere
10. The pass located at the southern end of the Nilgiri Hills in south India is called?
 - (A) The Palakkad gap
 - (B) The Thamarassery pass
 - (C) The Bodinaykannur pass
 - (D) The Aryankavu Pass
11. The core of the Great Himalayan ranges are made up of
 - (A) Dharwar Rocks
 - (B) Archaean Rocks
 - (C) Quaternary Rocks
 - (D) Gondwana Rocks
12. Which one of the following regions is with high ocean water salinity?
 - (A) Equatorial
 - (B) Polar
 - (C) Subtropical
 - (D) Sub polar
13. Which of the following is not a thematic map?
 - (A) Map showing population density.
 - (B) Map showing distribution of minerals.
 - (C) Map showing jute producing areas.
 - (D) Topographical map on 1: 50,000.
14. Which one of the following major sea ports of India does not have natural harbour?
 - (A) Marma goa
 - (B) Mumbai
 - (C) Cochin
 - (D) Paradeep

15. Bhakra Nangal Project is a joint venture of which one of the following groups of States?

- (A) Punjab, Haryana and Rajasthan.
- (B) Haryana, Punjab and Uttar Pradesh.
- (C) Himachal Pradesh, Uttarakhand and Punjab.
- (D) Punjab, Rajasthan and Uttarakhand

16. In the energy budget of the Earth-atmosphere system, the largest component is

- (A) Absorption of terrestrial radiation by the atmosphere
- (B) Absorption of solar radiation by the atmosphere
- (C) Outgoing radiation to space
- (D) Latent heat

17. Along a coastline the most common types of sand dunes are

- (A) Parabolic and barchans
- (B) Parabolic and transverse
- (C) Transverse and star
- (D) Star and longitudinal

18. The spatial distribution pattern of rural settlements can best be observed from

- (A) Wall maps
- (B) Cadastral maps
- (C) Geological maps
- (D) Topographical maps

19. Which of the following region is in the rain shadow of the Western Ghats?

- (A) Mahabhaleshwar
- (B) Baramathi
- (C) Panchghani
- (D) Ratnagiri

20. Which of the following is the appropriate method for study of dispersion?

- (A) Mean
- (B) Medium
- (C) Mode
- (D) Standard deviation

Turn over

21. The transition zone between two ecosystems is called
- (A) Biotope
 - (B) Ecotone
 - (C) Biome
 - (D) Habitat
22. Western most point of India
- (A) Guhar Moti
 - (B) Indira col
 - (C) Kibithu
 - (D) Kanyakumari
23. Which one of the following regions does not constitute the Damodar Valley Region?
- (A) Deltaic Plain of West Bengal
 - (B) Deltaic Plain of Padma River
 - (C) Chotanagpur Plateau
 - (D) Palamau Plateau
24. Westerlies are examples of
- (A) Macro atmospheric motions
 - (B) Tornados
 - (C) Micro scale atmospheric motions
 - (D) Gusts
25. Xerophytes can tolerate and stand against :
- (A) High temperature
 - (B) Severe Cold
 - (C) Humidity
 - (D) The drought Conditions

II. Answer any five of the following questions (5X10=50)

1. State the concept of *sustainable development* in the Indian context?
2. Critically analyze the urban morphology of the cities in India. What are the similarities and differences between Indian city and a typical European city?
3. Give an account of reasons and consequences of environmental pollution?
4. Describe the origin & development of Indian monsoons?
5. Explain the factors responsible for the origin of ocean currents. How do they influence the lives of people?
6. Analyze the role of remote sensing applications in the contemporary world?
7. Are we humans responsible for global climate change? Justify your answer with examples?
8. Give an account of nature of biosphere as an ecosystem?