

**A****DE-2937****B. Sc. (Sem. I) Examination****March / April – 2016****Environmental Science : Paper - II***(Env. 102 : Fundamentals of Earth Sciences)*

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. SC. (SEM. I)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="ENVIRONMENTAL SCIENCE : PAPER - 2"/>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="3"/> <input type="text" value="7"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	

- (2) There are total-50 multiple choice questions (MCQ) in question paper.
- (3) All questions are compulsory.
- (4) All questions carry equal marks.
- (5) Select the best one from given options to give an answer.
- (6) Answer the questions only into the OMR answer-sheet which is given to you.

O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ O.M.R. Sheet-ની પાછળ છાપેલ છે.
Important instructions to fillup O.M.R. Sheet is given on back side of the provided O.M.R. Sheet.

- 1 High mountains are worn away by the agents of denudation i.e. wind, water, glacier, waves etc. The remaining part of these mountains is known as ____.
- (A) Fold Mountain
 - (B) Block Mountain
 - (C) Volcanic Mountain
 - (D) Residual Mountain
- 2 ____ are bordered on one side by mountains and on the other by a plain or sea.
- (A) Intermontane plateaus
 - (B) Piedmont plateaus
 - (C) Continental plateaus
 - (D) Volcanic plateaus
- 3 ____ is example of intermontane plateau.
- (A) Tibetan Plateau
 - (B) Patagonian Plateau
 - (C) Columbian Plateau
 - (D) None
- 4 What is the maximum number of lunar eclipses that can occur during a calendar year ?
- (A) 2
 - (B) 3
 - (C) 4
 - (D) None
- 5 The red colour visible during a lunar eclipse is due to,
- (A) Dust in moon's atmosphere
 - (B) Dust in earth's atmosphere
 - (C) Dust in space
 - (D) None
- 6 The length of the latitudes :
- (A) becomes longer towards the poles.
 - (B) is longest at the equator
 - (C) is longest at the poles
 - (D) all the latitudes have same length
- 7 The largest intrusion are called :
- (A) Batholiths
 - (B) Plutons
 - (C) Dikes
 - (D) Sills

- 8 According to the different proportions of sand, silt & clay _____ main textural classes are observed.
- (A) 10
 - (B) 11
 - (C) 12
 - (D) 13
- 9 _____ soil has a low percolation rate.
- (A) Sandy
 - (B) Silt
 - (C) Clay
 - (D) None
- 10 Organic matter decomposition is rapid in :
- (A) Clay
 - (B) Silt
 - (C) Sand
 - (D) All
- 11 The soil materials dominated by oxides of Fe & Al is known as
- (A) Black cotton soil
 - (B) Prairie soil
 - (C) Laterite
 - (D) Podzol
- 12 _____ mostly help to store nutrients & bind particles together into aggregates.
- (A) Sand
 - (B) Silt
 - (C) Clay
 - (D) Gravels
- 13 Which processes were involved in podzolization ?
- (A) Addition and leaching
 - (B) Translocation and addition
 - (C) Transformation and translocation
 - (D) Leaching and translocation
- 14 Laterization is a process of accumulation in soil
- (A) Silica
 - (B) CaCO_3
 - (C) CaSO_4
 - (D) Iron and aluminium oxides

- 15 If voids of soil mass are full of air only , term as
(A) Air entrained soil
(B) Partially saturated soil
(C) Dry soil
(D) Dehydrated soil
- 16 Decomposing matter is referred to as :
(A) Humus
(B) Litter
(C) Soil Biomass
(D) Minerals
- 17 Thickness of Asthenosphere :
(A) 1380 km
(B) 180 km
(C) 350-700 km
(D) 700 km
- 18 Crystallization of molten rock is known as :
(A) Igneous rock
(B) Sedimentary rock
(C) Metamorphic rock
(D) None
- 19 Sedimentary rocks may be chemically altered in form by heat, pressure or chemically active fluids, known as _____.
(A) Igneous rock
(B) Sedimentary rock
(C) Metamorphic rock
(D) None
- 20 'Igneous' comes from the Latin language is for :
(A) Fire
(B) Flame
(C) Burn
(D) None

- 21 Granite is composed of :
 (A) Potassium rich feldspar
 (B) Sodium rich feldspar
 (C) Biotite
 (D) Amphibole
- 22 Which are included in cation ?
 (A) Nitrate
 (B) Sulphate
 (C) Calcium
 (D) Hydroxide
- 23 The small pore retained water against the gravity force known as :
 (A) Saturation water
 (B) Capillary water
 (C) Gravitational water
 (D) Permanent wilting point
- 24 The water retained in soil between the states of field capacity & wilting point known as :
 (A) Hygroscopic water
 (B) Available water
 (C) Field capacity
 (D) All
- 25 The removal of solid or dissolved material from one horizon is known as :
 (A) Illuviation
 (B) Eluviation
 (C) Enrichment
 (D) All
- 26 E horizon are commonly occur in :
 (A) Highrainfall area
 (B) Desert area
 (C) Low rainfall area
 (D) Grassland area
- 27 The unweathered bedrock is known as :
 (A) A horizon
 (B) B horizon
 (C) C horizon
 (D) D horizon
- 28 Intermediate grade metamorphic rock known as _____.
 (A) Slate
 (B) Schist
 (C) Gneiss
 (D) None
- 29 High temperature-low pressure metamorphism is characteristics of _____.
 (A) Regional metamorphism
 (B) Contact metamorphism
 (C) Subduction metamorphism
 (D) None
- 30 What is the general term for periods of mountain-building that include folding, faulting, magmatism and metamorphism ?
 (A) Rejuvenation
 (B) Convergence
 (C) Orogeny
 (D) Sedimentation

- 31 How old is the Earth ?
- (A) 2.3 billion years
 - (B) 4.6 million years
 - (C) 4.6 billion years
 - (D) 400000 years
- 32 The hot rock under the earth's surface is called :
- (A) Lava
 - (B) Magma
 - (C) Dormant
 - (D) None
- 33 _____ consist great masses of folded sedimentary rocks.
- (A) Block mountain
 - (B) Fold mountains
 - (C) Volcanic mountain
 - (D) Residual mountain
- 34 Which of following is correct :
- I. All great mountain system of earth are structural type
 - II. Fold and Block mountain system are structural type ?
- (A) I only
 - (B) II only
 - (C) Both I and II
 - (D) None
- 35 Which of the following is/are example of chemical weathering ?
- I. Frost action on rocks
 - II. Repeated wetting and drying
 - III. Oxidation of minerals in a rock
- (A) I and II
 - (B) I and III only
 - (C) III
 - (D) I, II, III

- 36 _____ are formed when a mass of land was pushed up between parallel crack in earth crust or sinking of land around them.
- (A) Fold Mountain
 - (B) Block Mountain
 - (C) Volcanic Mountain
 - (D) Residual Mountain
- 37 _____ is low lying expanse of land between the coast & higher ground inland.
- (A) Coastal Plain
 - (B) Delta plain
 - (C) Lava Plain
 - (D) Depositional plain
- 38 _____ formed by the deposition of materials brought by various agents of transportation such as rivers, wind, waves, and glaciers.
- (A) Costal Plains
 - (B) Destruction Plains
 - (C) Deposition Plains
 - (D) None
- 39 _____ plains formed by rivers.
- (A) Alluvial
 - (B) Glacial
 - (C) Abyssal
 - (D) Lava
- 40 Lunar eclipses always occur during :
- (A) Full moon
 - (B) New Moon
 - (C) First quater moon
 - (D) None

- 41 1st trace of life on land – plant
 (A) Palaeozoic or Primary,
 (B) Mesozoic or Secondary,
 (C) Cainozoic or Tertiary,
 (D) Neozoic or Quaternary
- 42 Major event in Cainozoic era :
 I. early Human Ancestor
 II. Rats-mice
 III. Marine invertebrate
 (A) I and II (B) I and III
 (C) II and III (D) All
- 43 The value of the prime meridian is :
 (A) 90° (B) 0°
 (C) 60° (D) None
- 44 The Antarctic circle is located in :
 (A) Northern hemisphere
 (B) Southern hemisphere
 (C) Eastern hemisphere
 (D) Western hemisphere
- 45 Days and nights are equal throughout the globe when the sun is above :
 (A) Poles
 (B) Equator
 (C) Tropic of Cancer
 (D) Tropic of Capricorn
- 46 Which of the following latitude forms a great circle ?
 (A) 0 (B) 23.5
 (C) 66.5 (D) 90
- 47 _____ era started 4.6 billion years ago and ended 530 million years ago.
 (A) Archaeozoic or Precambrian
 (B) Palaeozoic or Primary
 (C) Mesozoic or Secondary
 (D) Cainozoic or Tertiary
- 48 Characteristics of *Palaeozoic age* :
 (A) called as "manifest life"
 (B) life spans across 285 million years
 (C) Many animal and vegetal groups made their first appearance
 (D) All
- 49 _____ started from 245 million years ago to 65 million years ago.
 (A) Palaeozoic or Primary,
 (B) Mesozoic or Secondary,
 (C) Cainozoic or Tertiary,
 (D) Neozoic or Quaternary
- 50 Some green-blue autotrophic algae appeared in :
 (A) Archaeozoic or Precambrian
 (B) Palaeozoic or Primary
 (C) Mesozoic or Secondary
 (D) Cainozoic or Tertiary