Sr. No. 517

ENTRANCE TEST-2021

SCHOOL OF ENVIRONMENTAL & EARTH SCIENCES

DISASTER MANAGEMENT

Total Questions : 60
Time Allowed : 70 Minutes

Question Booklet Series A

Roll No. :

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SEAL

1. In which phase of disaster, the damage assessment is properly done ?
   (A) Impact phase
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   (C) Rehabilitation phase
   (D) Rescue phase

2. The conditions determined by physical, social, economic and environmental factors or processes, which increase the susceptibility of a community to the impact of hazard is the definition of vulnerability given by:
   (A) Hyogo Framework for Action
   (B) Sendai Framework for Action
   (C) IPCC
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3. The level of harm by a hazard is governed by:
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4. There are nine tasks in the disaster management. All of the following are tasks of this model EXCEPT:
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   (D) Provide security; prevent looting, protect person and property

5. Vulnerability reduction plan is a participatory:
   (A) Bottom-up plan
   (B) Top-up plan
   (C) Both (A) & (B)
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6. Which two natural hazards have caused the most damage both in terms of loss of life and monetary losses over the past 50 years on a global scale ?
   (A) Hurricanes and volcanoes
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7. Populations and their movements through time are a component of:
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8. What phase of emergency management includes exercises and drills ?
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9. Reconstruction is a strategy used in which stage of disaster mitigation ?
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10. A clear concise document which outlines preventive and preparatory measures in the event of a disaster to minimize its effect is:
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11. According to UNDP the capacity building response must be created based on which of the following core issues ?

1. Institutional arrangements
2. Leadership
3. Knowledge
4. Accountability

Choose the correct combination among the following.

(A) 1, 2 and 3 only
(B) 2, 3 and 4 only
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(A) Risk likelihood reduction
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18. Seven "global targets" to measure progress against the expected outcome of a disaster is:

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(B) 167
(C) 177
(D) 187

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45. Which of the following is known as 'Water Man', who has developed a technique for harvesting rainwater and also revived the age-old technique of collection of rainwater in dams to increase water table in India ?
(A) Rajendra Singh
(B) K.R. Majumdar
(C) H.N. Misra
(D) M. Sundaram

46. Which of the following is not a viable protection against deforestation ?
(A) Environmental education
(B) Boycott products of companies involved in deforestation
(C) Privatisation of forest land
(D) Reduce the consumption of forest and related products

47. The resources in which there is a natural replenishment at a non-negligible rate are known as:
(A) Recyclable resources
(B) Renewable resources
(C) Depletable resources
(D) Environmental resources

48. Which among the following district of J & K does not fall in the Seismic Zone V ?
(A) Anantnag
(B) Kishtwar
(C) Kupwara
(D) Kathua

49. Which global technological company was first to launch a web portal which tracks COVID-19 infections worldwide ?
(A) Amazon
(B) Microsoft
(C) Facebook
(D) Google

50. Where will be United Nations (UN) Climate Conference also known as COP 26 held in 2021 ?
(A) Brisbane, Australia
(B) Madrid, Spain
(C) Glasgow, United Kingdom
(D) Rome, Italy

51. Who has won the Booker Prize 2020 for his debut novel "Shuggie Bain" ?
(A) Margaret Atwood
(B) Marieke Lucas Rijneveld
(C) James Kelman
(D) Douglas Stuart

52. "Shantir Ogroshena-2021" is a joint Military exercise between India and which other country ?
(A) Bangladesh
(B) Afghanistan
(C) Israel
(D) Turkey

53. Which of the Indian Journalist has won 2020 Pulitzer award in feature photography ?
(A) Channi Anand
(B) Dar Yasin
(C) Mukhtar Khan
(D) All the above

54. Which among the following institutions received the Subhas Chandra Bose Aapda Prabandhan Pursakar 2021 award for their contribution in Disaster Management ?
(A) Tata Institute of Social Sciences
(B) UN Office for the coordination of Humanitarian Affairs
(C) Sustainable Environment and Ecological Development
(D) Human Empowerment Organisation

55. What is the name of the latest earth observation satellite launched by ISRO in November, 2020 along with 9 international customer satellites from Andhra Pradesh ?
(A) G Sat-30
(B) India Sat
(C) KALAM SAT
(D) EOS-1

56. Marcelo Rebelo de Sousa has been recently elected the President of which of the following countries for the consecutive second time ?
(A) Portugal
(B) Hungary
(C) Poland
(D) Belgium

57. Which one of the following article deals with the appointment of the Prime Minister and other ministers ?
(A) Article 76
(B) Article 75
(C) Article 74
(D) Article 72

58. Which age group is included to calculate Child Sex Ratio in India ?
(A) 0-6 years
(B) 1-6 years
(C) 0-5 years
(D) 0- 6 months

59. Who authored the book titled "Pandemonium: The Great Indian Banking Tragedy" ?
(A) Anand Neelakantan
(B) Vikas Khanna
(C) Tamal Bandyopadhyay
(D) Pradeep Srivastava

60. The 'satellite freight city' is being developed near which of the following cities in India ?
(A) New Delhi
(B) Kolkata
(C) Pune
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Sr. No. .....

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(D) Environmental resources

48. Which among the following district of J & K does not fall in the Seismic Zone V ?
(A) Anantnag
(B) Kishtwar
(C) Kupwara
(D) Kathua

49. Which global technological company was first to launch a web portal which tracks COVID-19 infections worldwide ?
(A) Amazon
(B) Microsoft
(C) Facebook
(D) Google

50. Where will be United Nations (UN) Climate Conference also known as COP 26 held in 2021 ?
(A) Brisbane, Australia
(B) Madrid, Spain
(C) Glasgow, United Kingdom
(D) Rome, Italy

51. Who has won the Booker Prize 2020 for his debut novel "Shuggie Bain" ?
    (A) Margaret Atwood
    (B) Marieke Lucas Rijneveld
    (C) James Kelman
    (D) Douglas Stuart

52. "Shantir Ogroshena-2021" is a joint Military exercise between India and which other country ?
    (A) Bangladesh
    (B) Afghanistan
    (C) Israel
    (D) Turkey

53. Which of the Indian Journalist has won 2020 Pulitzer award in feature photography ?
    (A) Channi Anand
    (B) Dar Yasin
    (C) Mukhtar Khan
    (D) All the above

54. Which among the following institutions received the Subhas Chandra Bose Aapda Prabandhan Pursakar 2021 award for their contribution in Disaster Management ?
    (A) Tata Institute of Social Sciences
    (B) UN Office for the coordination of Humanitarian Affairs
    (C) Sustainable Environment and Ecological Development
    (D) Human Empowerment Organisation

55. What is the name of the latest earth observation satellite launched by ISRO in November, 2020 along with 9 international customer satellites from Andhra Pradesh ?
    (A) G Sat-30
    (B) India Sat
    (C) KALAM SAT
    (D) EOS-1

56. Marcelo Rebelo de Sousa has been recently elected the President of which of the following countries for the consecutive second time ?
    (A) Portugal
    (B) Hungary
    (C) Poland
    (D) Belgium

57. Which one of the following article deals with the appointment of the Prime Minister and other ministers ?
    (A) Article 76
    (B) Article 75
    (C) Article 74
    (D) Article 72

58. Which age group is included to calculate Child Sex Ratio in India ?
    (A) 0-6 years
    (B) 1-6 years
    (C) 0-5 years
    (D) 0- 6 months

59. Who authored the book titled "Pandemonium: The Great Indian Banking Tragedy" ?
    (A) Anand Neelakantan
    (B) Vikas Khanna
    (C) Tamal Bandyopadhyay
    (D) Pradeep Srivastava

60. The 'satellite freight city' is being developed near which of the following cities in India ?
    (A) New Delhi
    (B) Kolkata
    (C) Pune
    (D) Gurgaon

ROUGH WORK

(3)

Sr. No. 199

ENTRANCE TEST-2020

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

DISASTER MANAGEMENT

Question Booklet Series C

Total Questions : 60
Time Allowed : 70 Minutes

Roll No. : | | | | | | |

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.

SEAL

1. Which electromagnetic wave has the longest wavelength ?

(A) Gamma rays

(B) X-rays

(C) Microwaves

(D) Radio waves

2. Battery charger converts electrical energy into _____ energy.

(A) Kinetic

(B) Potential

(C) Chemical

(D) Nuclear

3. Penicillin is obtained from _____.

(A) Soil

(B) Bacteria

(C) Fungi

(D) Virus

4. Geostationary orbit is at a height of approximately _____ above earth.

(A) 6 km

(B) 1000 km

(C) 3600 km

(D) 36000 km

5. Liquid part of the blood is composed of _____.

(A) WBC

(B) Plasma

(C) RBC

(D) HB

6. The most abundant element in the universe i

(A) Oxygen

(B) Hydrogen

(C) Carbon Dioxide

(D) Silicon

7. Absolute zero, which is the lower limit of thermodynamic temperature scale, is equiva to _____ on the Celsius scale.

(A) 273°C

(B) 0°C

(C) 100°C

(D) 973°C

8. In the Solar system the nearest planet Earth is _____.

(A) Venus

(B) Mercury

(C) Mars

(D) Moon

9. Which of the following was the 1st netw initiated the Internet services ?

(A) Vnet

(B) Inet

(C) ARPANET

(D) NSF Net

10. Acid rain is mainly caused by emis _____ in the atmosphere.

(A) Sulfur Dioxide and Potassium N

(B) Sulfur and Charcoal

(C) Nitrogen Oxide and Potassium I

(D) Sulfur Dioxide and Nitrogen Ox

SEAL

11. The World Wide Web was invented by :

(A) Bob Kahn

(B) Tim Berners-Lee

(C) Steve Jobs

(D) Bill Gates

12. The fresh water on the Earth is _____ of the total water.

(A) 2.5%

(B) 5%

(C) 7.5%

(D) 10%

13. Nobel Prize for research on cancer immunotherapy in 2018 was given to :

(A) Olga Tokarczuc

(B) James Allison & Tasuku Honjo

(C) William Nordhaus & Paul Rommer

(D) Arthur Ashkin

14. The different seasons on the Earth are caused by _____.

(A) Rotation of the Earth

(B) Revolution of the Earth

(C) Earth's axis' is tilt

(D) The Earth's distance from the Sun

15. The North Pole of the Earth is located in _____.

(A) Arctic Ocean

(B) Pacific Ocean

(C) Antarctica

(D) Norway

16. 'Montreal Protocol' is related to which of the following environmental issues ?

(A) CO_2 emissions

(B) Chlorofluorocarbon

(C) Water pollution

(D) Climate change

17. Gir National Park is situated in which State ?

(A) Bihar

(B) Allahabad

(C) West Bengal

(D) Gujarat

18. Who among the following persons was the last Governor-General of British India ?

(A) Rajaji

(B) Lord Canning

(C) Warren Hastings

(D) Lord Mountbatten

19. Which country is also called "Rainbow Nation" ?

(A) Japan

(B) South Africa

(C) Netherlands

(D) Norway

20. Which among the following is the driest desert in the world ?

(A) Sahara Desert

(B) Cholistan Desert

(C) Arabian Desert

(D) Atacama Desert

21. Working capital of The European Union is located in which of the following European Cities ?

(A) London

(B) Lisbon

(C) Brussels

(D) Vienna

22. Which among the following is the motto of United Nations ?

(A) It's your world !

(B) Life for All !

(C) Peace !

(D) Love and Peace !

23. Who is the author of Book "Playing It My Way" ?

(A) Kapil Dev

(B) Ravi Shastri

(C) Sachin Tendulkar

(D) Yuvraj Singh

24. The Book 'What young India wants' ? is authored by :

(A) Amish Tripati

(B) Chetan Bhagat

(C) Durjoy Datta

(D) Ravinder Singh

25. World Famous Khajuraho Sculptures are located in which of the following States ?

(A) Gujarat

(B) M.P.

(C) Orrisa

(D) U.P.

26. Select the longest serving Woman chief ministers of India :

(A) Jayalalitha

(B) Rabri Devi

(C) Mamta Banerji

(D) Shiela Dixit

27. Which of these organisations have been awarded Nobel Prize three times ?

(A) International Committee of the Red Cross

(B) Amnesty International

(C) Transparency International

(D) UNO

28. International Court of Justice is located in which of the following cities ?

(A) Hague

(B) Geneva

(C) Amsterdam

(D) Muick

29. Which renowned Parliamentarian received Bharat Ratna Award in 2019 for his long and exemplary services to the Indian legislature ?

(A) Atal Bihari Vajpayee

(B) Madan Mohan Malviya

(C) Pranab Mukherjee

(D) L.K. Advani

30. Arjuna Award in India is given in which of the following fields ?

(A) Literature

(B) Education

(C) Sports

(D) Music

31. In India National Institute of Disaster Management is located at :

(A) Manipur

(B) Punjab

(C) Hyderabad

(D) New Delhi

32. Effective hazard management largely relies on :

(A) Govt. agencies

(B) Emergency responses

(C) Pre-disaster planning

(D) Aid from various agencies

33. The extent to which a community, structure, services or geographic area is likely to be damaged or disrupted by the impact of particular hazard is termed as :

(A) Capacity

(B) Vulnerability

(C) Risk

(D) Hazard assessment

34. The Disaster Management Act was made in :

(A) 2006

(B) 2003

(C) 2005

(D) 2009

35. The level of harm caused by any hazard is governed by :

(A) Magnitude of the hazard

(B) Frequency of the hazard

(C) Intensity at the impact point

(D) All of the above

36. The point of the earth's surface directly above the point where an earthquake occurs is called the :

(A) Focus

(B) Epicenter

(C) Fracture

(D) Fault

37. Vulnerability analysis comes in which part of the Disaster Management Cycle ?

(A) Mitigation

(B) Rehabilitation

(C) Response

(D) Recovery

38. Which of the following groups of people is more vulnerable in the event of disaster ?

(A) Men, boys, old people

(B) Men, women, boys

(C) Women, children, old people

(D) None of the above

39. Which wave of the earthquake produces rolling effect along the surface ?

(A) P wave

(B) S wave

(C) L wave

(D) None of the above

40. About 2/3rd of the cyclones that occur in the Indian coastline occur in the _____.

(A) Bay of Bengal

(B) Coastal area of South India

(C) Coastal area of West India

(D) None of the above

41. International Tsunami Information Centre is located in which city ?

(A) Honolulu

(B) Goa

(C) Jakarta

(D) Hyderabad

42. Indian Meteorological Department (IMD) calls a storm 'Super Cyclone' when the wind blows :

(A) More than 120 km/hour

(B) More than 100 km/hour

(C) More than 220 km/hour

(D) None of the above

43. A disease that becomes unusually widespread and even global in its reach is referred to as :

(A) Epidemic

(B) Pandemic

(C) Spanish flu

(D) Hyperendemic

44. When was National Disaster Response Force established ?

(A) 1999

(B) 2006

(C) 2010

(D) 2014

45. How much percentage of the landmass is prone to earthquakes in India ?

(A) Around 58%

(B) Around 60%

(C) Around 63%

(D) Around 65%

46. Traveler is related to the journey in the same way as sailor is related to _____.

(A) Ship

(B) Crew

(C) Voyage

(D) Navy

47. In a certain code ROUNDS is written as RONUDS. How will PLEASE be written in the same code ?

(A) PLASEE

(B) LPAEES

(C) PLAESE

(D) LPAESE

48. Find the odd word in the Series given below :

(A) Smell

(B) Taste

(C) See

(D) Think

49. What will come at the place of ? Mark

1, 9, 25, 49, ?, 121

(A) 100

(B) 91

(C) 81

(D) 64

50. Mohan was facing east. He walked 4 km forward and then after turning to his right walked 3 km. Again he turned to his right and walked 4 km. After this he turned back, which direction he was facing at that time ?

(A) East

(B) West

(C) North

(D) South

51. Complete the given number series from the options given below :

6, 11, 21, 36, 56, ?

(A) 99

(B) 81

(C) 77

(D) 64

52. Which word does not belong to the others in the options given below ?

(A) Dodge

(B) Flee

(C) Duck

(D) Avoid

53. A cyclist was 30 km to the north and then turning to east he goes 40 kms. Again he turns to his right and goes 20 kms. After this he turns to his right and goes 40 kms. How far is he from the starting point ?

(A) 10 km

(B) 20 km

(C) 30 km

(D) 40 km

54. Introducing a lady, a man said, "her mother is the only daughter of mother-in-law". What is the relation of man with the lady ?

(A) Son

(B) Father

(C) Husband

(D) Uncle

55. Complete the series : JAK, KBL, LCM, MDN _____.

(A) OEP

(B) NEO

(C) MEN

(D) PFQ

56. Choose the word which is different from the rest :

(A) Dagger

(B) Knife

(C) Hammer

(D) Blade

57. The day before yesterday was Saturday. What day will it be the day after tomorrow ?

(A) Tuesday

(B) Friday

(C) Thursday

(D) Wednesday

58. In a class of 45 students, Amir's rank from the top is 16th. Ashok is 6 ranks below Amir. What is Ashok's rank from the bottom ?

(A) 21st

(B) 22nd

(C) 25th

(D) 24th

59. Complete the series by selecting the suitable option from the following alternatives :

(A) Shimla

(B) Mysore

(C) Pune

(D) Kanpur

60. Complete the number series

120, 99, 80, 63, 48, ?,

(A) 35

(B) 38

(C) 39

(D) 40

1. How many 4's are there preceded by 7 but not followed by 3 :
5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1 3 8 3 2 5 6
7 4 3 9 5 8 2 0 1 8 7 4 6 3
(A) Three
(B) Four
(C) Six
(D) Five

2. Find the missing number in the series :
4, 18, ?, 100, 180, 294, 448
(A) 48
(B) 50
(C) 58
(D) 60

3. If you write down all the numbers from 1 to 100, then how many times do you write 3 ?
(A) 11
(B) 18
(C) 20
(D) 21

4. How many meaningful English words can be formed with the letters ESRO using each letter only once in each word ?
(A) One
(B) Two
(C) Three
(D) Four

5. In a row of boys, if A who is 10th from the left and B who is 9th from the right interchange their positions, A becomes 15th from the left. How many boys are there in the row ?
(A) 23
(B) 31
(C) 27
(D) 28

6. If FRIEND is coded as HUMJTK, how is CANDLE written in that code ?
(A) EDRIRL
(B) DCQHQK
(C) ESJFME
(D) DEQJQM

7. What should come in place of question mark (?) in the following number series ?
132 156 ? 210 240 272
(A) 196
(B) 182
(C) 199
(D) 204

8. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 4 km. And then he goes back 10 km straight. Now in which direction is he from the starting place ?
(A) South
(B) South-East
(C) North-West
(D) West

9. Biped : Quadruped :: Ostrich : ?
(A) Cat
(B) Rabbit
(C) Tortoise
(D) Rat

10. Fumble is to Finesse as Malign is to :
(A) Slander
(B) Extol
(C) Criticize
(D) Assurance

11. 34 is related to 12 in the same way as 59 is related to :
(A) 45
(B) 38
(C) 26
(D) 14

12. Rotate : Energy :: Stop : ?
    (A) Spin
    (B) Break
    (C) Inertia
    (D) None of the above

13. Choose the most essential part for the word 'Shoe' given below from the following options :
    (A) Lace
    (B) Sole
    (C) Leather
    (D) Walking

14. Pointing to a person, a man said to a woman, "His mother is the only daughter of your father". How was the woman related to the person ?
    (A) Daughter
    (B) Mother
    (C) Wife
    (D) Aunt

15. Which word does NOT belong with the others ?
    (A) Guitar
    (B) Flute
    (C) Violin
    (D) Cello

16. What was the theme of World Wetlands Day celebrated on 2nd February 2019 ?
    (A) Conservation of Wetland
    (B) Wetland Preservation
    (C) Wetlands and the Environment
    (D) Wetlands and Climate Change

17. Where was the World Sustainable Development Summit 2019 held :
    (A) Tokyo
    (B) Beijing
    (C) New Delhi
    (D) Mumbai

18. Who was the recipient of Ashok Chakra for year 2019 ?
    (A) Hangpan Dada
    (B) Major Nitin Gagoi
    (C) Wing Commander Abhinandan
    (D) Nazir Ahmad Wani

19. The Government of India has established NITI Aayog to replace the :
    (A) Human Rights Commission
    (B) Planning Commission
    (C) Law Commission
    (D) Finance Commission

20. The Indian Tsunami Early Warning Centre (ITEWC) established at Indian National Centre for Ocean Information Sciences is located in :
    (A) Chennai
    (B) Goa
    (C) Kochi
    (D) Hyderabad

21. The Golden Man Booker Prize, 2018 for the fiction "The English Patient" was given to which one of the following authors ?
    (A) Jack E. Davis
    (B) Michael Ondaatje
    (C) Martyna Majok
    (D) Anne Charnock

22. Jacinda Ardern was recently in the news headlines, who is he/she :
    (A) Prime Minister of Australia
    (B) President of Indonesia
    (C) Prime Minister of New Zealand
    (D) Prime Minister of Swaziland

23. The author of the book, 'The Art of Living—A Guide to Contentment, Joy and Fulfillment' is :
    (A) Shashi Tharoor
    (B) Dalai Lama
    (C) Arundhati Roy
    (D) Sudha Murthy

24. Bharat Ratna the highest civilian award in India was conferred in 2019 to :
(A) Budhaditya Mukherjee
(B) Kuldip Nayar
(C) Ismail Omar Guelleh
(D) Pranab Mukherjee

25. Which of the following pairs has got the Nobel Peace Prize for 2018 ?
(A) Denis Mukwege and Nadia Murad
(B) William D. Nordhaus and Paul M. Romer
(C) James P. Allison and Tasuku Honjo
(D) Frances H. Arnold and Sir Gregory P. Winter

26. The headquarter of UNISDR is located at :
(A) Bangkok, Thailand
(B) New York, USA
(C) Geneva, Switzerland
(D) Paris, France

27. Which one of the following is associated with the issue of control and phasing out of the use of ozone-depleting substances ?
(A) Bretton Woods Conference
(B) Montreal Protocol
(C) Kyoto Protocol
(D) Nagoya Protocol

28. Consider the following about Green Climate Fund (GCF) :
1. It was established under United Nations Environment Programme (UNEP).
2. It is aimed at achieving the goal set out by United Nations Framework Convention on Climate Change (UNFCCC).
3. It is a mechanism to redistribute money from the developed to the developing world.

Choose the correct answer using the codes below :
(A) 2 and 3 only
(B) 1 and 2 only
(C) 1 and 3 only
(D) All of the above

29. Nursultan has been recently made the new capital of which of the following countries ?
(A) Azerbaijan
(B) Turkemanistan
(C) Kazakhstan
(D) Tajiskistan

30. Which of the following cities has been named by UNESCO as the World Book Capital for 2019 ?
(A) Athens
(B) Kuwait City
(C) Bangkok
(D) Sharjah

31. Match the following from inventions (List I) and inventors (List II) :

	List I		List II
A.	Tape Recorder	1.	Michael Faraday
B.	Cresco Graph	2.	James Watt
C.	Steam Engine	3.	J.C. Bose
D.	Dynamo	4.	Poulson

Select the correct matching :

	A	B	C	D
(A)	4	3	2	1
(B)	4	2	3	1
(C)	1	2	4	3
(D)	1	2	3	4

32. Tides occur in oceans and seas due to which of the following ?
1. Gravitational Force of the Sun
2. Gravitational Force of the Moon
3. Gravitational Force of the Earth

Select the correct answer using the code given below :
(A) 1 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 1, 2 and 3

33. Which one of the following has the highest value of specific heat ?
(A) Alcohol
(B) Water
(C) Kerosene
(D) Methane

34. The process of removal of toxic wastes from the body of an organism is called :
(A) Transport
(B) Respiration
(C) Excretion
(D) Nutrition

35. The movement of a plant part in response to a chemical stimulus is called :
(A) Hydrotropism
(B) Chemotropism
(C) Thigmotropism
(D) Phototropism

36. Where is the Central Drug Research Institute of India located ?
(A) Delhi
(B) Bangalore
(C) Madras
(D) Lucknow

37. H1N1 virus is sometimes mentioned in the news with reference to which one of the following diseases ?
(A) AIDS
(B) Bird flu
(C) Swine flu
(D) Dengue

38. Most of the clouds are formed in the :
(A) Troposphere
(B) Mesosphere
(C) Stratosphere
(D) Thermosphere

39. Of the following, the rock that is most resistant to both chemical and mechanical weathering is :
(A) Shale
(B) Limestone
(C) Marble
(D) Quartzite

40. Global climate change is being attributed to the atmospheric increase in what two gases produced by human activities ?
(A) Oxygen and Hydrogen
(B) Methane and Carbon dioxide
(C) Nitrous oxide and Sulphur dioxide
(D) Ozone and Methane

41. Which of the following is not related to information security on the Internet ?
(A) Data Hiding
(B) Water Marking
(C) Data Encryption
(D) Information Retrieval

42. Most powerful and swift computer which can send an information in one thousand billionth part of a second is known as :
(A) Super computer
(B) Mini computer
(C) Mainframe computer
(D) Desktop computer

43. Encoding or scrambling data for transmission across a network is known as :
(A) Detection
(B) Protection
(C) Decryption
(D) Encryption

44. A software that manages computer and devices connected to it is :
(A) Operating system
(B) RAM
(C) ROM
(D) Both (B) and (C)

45. HTML stands for :
(A) Hyper Text Managing Links
(B) Hyper Text Manipulating Links
(C) Hyper Text Markup Language
(D) Hyper Text Manipulation Language

46. International Day for Disaster Risk Reduction (DRR) is celebrated every year on :
(A) January, 13
(B) October, 13
(C) December, 10
(D) None of these

47. As the magnitude of natural disaster increases, their frequency of occurrence :
(A) Remains same
(B) Increases
(C) Decreases
(D) None of these

48. Which of the following theories of Disaster Management informs organisational readiness and response in a disaster ?
(A) The problem solving task model
(B) Structure-functional theory
(C) Both (A) and (B)
(D) None of these

49. As per the Disaster Management Act, 2005, the National Disaster Management Authority (NDMA), may have how many number of members, including a Vice-Chairperson :
(A) 7
(B) 5
(C) 9
(D) 11

50. Which of the following sections, of the Disaster Management Act, 2005, calls for establishing a National Institute of Disaster Management (NIDM) ?
(A) Section 39
(B) Section 41
(C) Section 53
(D) Section 42

51. Consider the following pairs :
1. Earth Summit, 1993 : Rio de Janeiro
2. World Conference on Disaster Management, 1994 : Yokohama
3. National Institute of Disaster Management, 1995 : Hyderabad

Which of the above pairs are correctly matched ?
(A) 1 only
(B) 1 and 2 only
(C) 3 only
(D) 1, 2 and 3

52. Which of these is/are flood prevention and mitigation strategy ?
1. Construction of flood protection embankments
2. Depopulating the flood plains
3. Afforestation
4. Decongesting river channels

State the correct option using the codes given below :
(A) 1 and 2 only
(B) 1, 2 and 3 only
(C) 2, 3 and 4 only
(D) 1, 2, 3 and 4

53. State Crisis Management Committee is chaired by :
(A) Chief Minister
(B) Finance Minister
(C) Chief Secretary
(D) Finance Secretary

54. 'Managing Disaster Risk in Emerging Economies'— is a report of :
(A) World Bank
(B) Asian Development Bank
(C) Ministry of Home Affairs, Govt. of India
(D) National Institute of Disaster Management, India

55. Disasters that develop slowly over time are termed which of the following ?
(A) Latent
(B) Creeping
(C) Delayed
(D) Sudden-onset

56. What does the acronym ISDR stand for ?
(A) International Significant Disaster Resources
(B) International Sustainable Development Report
(C) International Strategy for Disaster Reduction
(D) Inter-governmental Strategy for Developing Recreation

57. Disaster at Chernobyl (USSR), Three Mile Island (USA), and Fukusima (JAPAN) are all related to :
(A) Disaster caused by Earthquake
(B) Disaster caused by Tsunami
(C) Epidemic disaster
(D) Nuclear disaster

58. Asian Disaster Preparedness Centre is located at :
(A) Bangkok
(B) Kerala
(C) Fiji
(D) Jakarta

59. 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

60. The structural and non-structural measures are elements of high category of Risk Reduction measures which are categorised as :
(A) Socio-economic measures
(B) Environmental measures
(C) Physical measures
(D) Post disaster measures

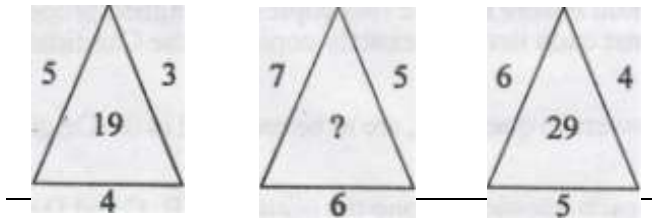
SEAL

2018

1. Fill in the blanks: 1,2,3, 1,4,9, 1 27
   (A) 5
   (B) 4
   (C) 16
   (D) 8

2. Fill in the blanks: 6, 5, 24, 25, 144, ...
   (A) 155
   (B) 160
   (C) 170
   (D) 175

3. Which number replaces the question mark?



   (A) 25
   (B) 37
   (C) 41
   (D) 47

4. PEDIATRICIAN is to CHILDREN as PODIATRIST is to :
   (A) Heart
   (B) Feet
   (C) Adult
   (D) Bones

5. What is the product of all the numbers in the dial of a telephone?
   (A) 1,58,480
   (B) 1,59,450
   (C) 1,59,480
   (D) None of these

6. A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C to D?
   (A) 2
   (B) 3
   (C) 6
   (D) 12

7. Ornithologist: Bird: : Archeologist: ..... ?
   (A) Islands
   (B) Mediators
   (C) Archeology
   (D) Aquatic

Fear: Threat : : Anger : ..... ?
   (A) Compulsion
   (B) Panic
   (C) Provocation
   (D) Force

9. The total ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago?
   (A) 71 years
   (B) 72 years
   (C) 74 years
   (D) 77 years

10. Rahul put his timepiece on the table in such a way that at 6 P.M., hour hand points to North. In which direction would the minute hand point at 9.15 P.M.?
   (A) South-East
   (B) South
   (C) North
   (D) West

11. Find out the odd word from the given alternatives :
(A) Swimming
(B) Sailing
(C) Diving
(D) Driving

12. Find the odd word from the given alternatives:
(A) Discernment
(B) Perception
(C) Penetration
(D) Insinuation

13. Find the odd letter out from the given alternatives :
(A) PQXZ,
(B) ABeD
(C) CQBN
(D) PRMN

14. If we say the child has an IQ of 100, what does this mean :
(A) The performance of the child is below average
(B) The performance of the child is above average
(C) The mental age of the child is equal to his actual age
(D) The performance of the child cannot be better

15. If the third day of the month is Monday, then which day will be on 5th day after 2151 of the month ?
(A) Tuesday
(B) Monday
(C) Thursday
(D) Wednesday

16. Chandrayan 1 was launched on 22nd October, 2008 in India from:
(A) Shadnagar
(B) Sri Harikota
(C) Chennai
(D) Ahmedabad

17. The Ganges originates from:
(A) Siachen glacier
(B) Chota Shigri glacier
(C) Nehnar glacier
(D) Gangotri glacier

18. The birth anniversary of which former President is celebrated on 15th October every year ?
(A) A.P.J. Abdul Kalam
(B) Pratibha Patel
(C) K. Narayanan
(D) Rajendra Prasad

19. *International Mountain Day* is celebrated World over on:
(A) 11 th December
(B) 7th December
(C) 20th April
(D) 4th August

20. Arundhati Roy is the first Indian to win Booker Prize in 1997 for her book:
(A) The Curfewed Night
(B) The God of Small Things
(C) A Suitable Boy
(D) Forbidden Verses

21. The 2016 Nobel peace prize was awarded to:
(A) Juan Manuel Santos
(B) Barack Obama
(C) Valdimir Putin
(D) Francois Hollande

22. Guindy National Park is located in :
(A) Gujarat
(B) Bangalore
(e) Chennai
(D) Andhra Pradesh

23. Who was first to reach the South Pole?

(A) Roald Amundsen

(B) Ferdinand Magellan

(C) Robert Peary

(D) None of these

24. Which lady has become the first full time woman defence minister ofIndia ?

(A) Indira Gandhi

(B) Nirmala Sitharamam

(C) Najma Heptullah

(D) Sushma Swaraj

25. Which Internet web portal changed its name to Altaba Inc. ?

(A) Google

(B) Yahoo

(C) MSN

(D) Twitter

26. When pressure is increased, the melting point of ice:

(A) Increases

(B) Does not change

(C) Decreases

(D) Depends on the impurities in the ice

27. The natural disaster in which carbon dioxide suddenly erupts from a deep lake water is known as :

(A) Glacial

(B) Liminic

(C) Lacustrine

(D) Fluvial

28. Combustion is a :

(A) Physical aad chemical process

(B) Biological process

(C) Physical process

(D) Chemical process

29. Natural radioactivity was discovered by:

(A) Ernst Rutherford

(B) Marie Curie

(C) Henri Becquerel

(D) Enrico Fermi

30. The maximum fixation of solar energy is done by :

(A) Green Plants

(B) Bacteria

(C) Fungi

(D) Protozoa

31. Araneology is a :

(A) Rearing of bees

(B) Study of aphids

(C) Study of spiders

(D) Study of mites

32. Which bacteria is responsible for the formation of curd?

(A) Fibrobacteres

(B) Lactobacillus

(C) Gemmatimonadetes

(D) Lentisphaerae

33. In poorly ventilated buildings, which one of the following inert gases could get accumulated?

(A) Helium

(B) Neon

(C) Argon

(D) Radon

34. Washing soda is common name for:

(A) Sodium carbonate

(B) Calcium bicarbonate

(C) Sodium bicarbonate

(D) Calcium carbonate

35. Who created *Bitcoin?*

(A) Notosoki Sakamoto

(B) Gavin Andresen

(C) Satoshi Nakamoto

(D) Paul Krugman

36. The Law of Natural Selection is associated with :

(A) John Dalton

(B) Charles Darwin

(C) Johannes Kepler

(D) Gregor Mendal

37. The soil oflndia's Eastern and Western coasts is:

(A) Alluvial

(B) Black cotton

(C) Red rocky

(D) Laterite

38. Pollination of wind is called:

(A) Autogamy

(B) Entomophily

(C) Anemophily

(D) Omithophily

39. The instrument that measures and records the relative humidity of air is :

(A) Hydrometer

(B) Lactometer

(C) Hygrometer

(D) Barometer

40. Badlands develop as a result of :

(A) Weathering of rocks

(B) Sheet erosion

(C) Gully erosion

(D) None of these

41. The angle of dip at the magnetic equator of earth is :

(A) 90°

(B) 45°

(C) 0°

(D) 180°

42. It is a situation that poses a level of threat to life, health, property or environment:

(A) Disaster

(B) Risk

(C) Hazard

(D) Vulnerability

43. Extrusive igneous rocks have:

(A) Few grains

(B) No grains'

(C) Grains of big size

(D) Grains which are not visible

44. Which one of these is also known as read/write memory?

(A) ROM
(B) RAM
(C) DVD
(D) Hard Disk

45. A gigabyte is equal to :

(A) 1024 Megabyte
(B) 1024 Kilobyte
(C) 1024 Terrabyte
(D) 1024 Bytes

46. Disaster Risk Reduction agreement approved by United Nations for 15 years i.e. 2015 to 2030 :

(A) Hyogo Framework
(B) Sendai Framework
(C) Yokohama Strategy
(D) Kyoto Protocol

47. International Atomic Energy Agency (lAEA) has its headquarters at:

(A) New York (USA)
(B) Vienna (Austria)
(C) Tokyo (Japan)
(D) Geneva (Switzerland)

48. Who wrote "War and Peace" ?

(A) Leo Tolstoy
(B) Mahatma Gandhi
(C) Charles Dickson
(D) Rudyard Kipling

49. Of the following, which is not a natural disaster?

(A) Nuclear Explosion
(B) Earthquake
(C) Volcanic Eruption
(D) Lightning

50. Tornadoes are common in :

(A) India
(B) Bangladesh
(C) China
(D) USA

51. The word Tsunami has been derived from:

(A) Tamil
(B) French
(C) Japanese
(D) Latin

52. Disaster Management includes:

(A) Mitigation
(B) Reconstruction
(C) Rehabilitation
(D) All of the above

53. National Institute of Disaster Management (NIDM) is at:

(A) Mumbai
(B) Kolkata
(C) Hyderabad
(D) New Delhi

54. The. National Disaster Management Act was. enacted in the year: .

(A) 2006
(B) 2003
(C) 2005
(D) 2009

55. The Chairman of National Disaster Management Authority (NDMA) is :
(A) Home Minister ofIndia
(B) Prime Minister of India
(C) Vice President of India
(D) President ofIndia

56. International Tsunami Information Centre is located at.:
(A) Honolulu
(B) Colombo
(C) Jakarta
(D) Andaman

57. A place where earthquake originates is called:
(A) Epicenter
(B) Focus
(C) Fault line
(D) Crust

58. What does the acronym "ISDR" stand for?
(A) International Significant Disaster Response
(B) International Sustainable Development Report
(C) International Strategy for Disaster Reduction
(D) International Strategy for Developing Recreation

59. The specialized central force raised up for dealing with disasters in India is called as :
(A) National Disaster Rapid Force
(B) National Disaster Response Force
(C) National Disaster Reduction Force
(D) National Disaster Raised Force

60. Which of the following is not a Geological Disaster?
(A) Volcanoes
(B) Earthquakes
(C) Tsunami
(D) Sea Surges

Sr. No. 057

ENTRANCE TEST-2017

SCHOOL OF EARTH & ENVIRONMENTAL SCIENCES

DISASTER MANAGEMENT

Question Booklet Series **A**

Total Questions : 60
Time Allowed : 70 Minutes

Roll No. : | | | | | | |

Instructions for Candidates :

1. Write your 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.
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10. Calculators and mobiles shall not be permitted inside the examination hall.
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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.

SEAL

1. Which of the following is not commonly referred to as a measure of central tendency for normal distribution?
   (A) Mid range (B) Median
   (C) Mean (D) Mode

2. Average rate of growth can best be studied by
   (A) Arithmetic mean (B) Geometric mean
   (C) Mode (D) Median

3. Scatter diagram is
   (A) Mathematical method of finding out correlation
   (B) Positional method of finding out correlation
   (C) Graphical method of finding out correlation
   (D) None of the above

4. Human Development Index (HDI) is constructed with reference to :
   i. Life expectancy at birth, real GDP per capita, gross enrolment ratio, adult literacy rate
   ii. Life expectancy at birth, real GDP per capita, combined gross enrolment ratio, adult literacy rate
   iii. Life expectancy , GDP per capita, infant mortality rate, literacy rate
   iv. GDP per capita, infant mortality rate, literacy rate
   (A) i and ii (B) i and iii
   (C) i, ii and iv (D) iii only

5. Productivity of Indian agriculture can be enhanced by
   i. Increased public investment
   ii. Increased irrigation facilities
   iii. Higher support price to farmers
   iv. Shifting workers from industry to agriculture
   Select the correct answer from the given codes
   (A) ii and iv (B) i ,ii, and iii
   (C) ii, iii, and iv (D) iii, iv, and i

6. Jurrrasic period is famous for the dominance of
   (A) Dinosaurs (B) Dense forests
   (C) Leafless plants (D) All of above

7. Temperature decreases with increase in height at the rate of
   (A) 1 degree centigrade per 1000 m
   (B) 2 degrees centigrade per 1000 m
   (C) 6.5 degrees centigrade per 1000 m
   (D) 10.5 degrees centigrade per 1000 m

8. How much area of the oceans is covered by continental shelves?
   (A) 7 percent (B) 7.5 per cent
   (C) 8 per cent (D) 8.5 per cent

9. The El Nino which influences Indian monsoon is:
   (A) A cold ocean current that flows northward along the coast of Chile
   (B) A warm ocean current that flows westward along the coast of Ecuador and Peru
   (C) A low pressure system over western coast of Spain
   (D) None of above

10. Which one of the following is the indigenous satellite of India?
   (A) NOAA (B) METEOR-3
   (C) APPLE (D) SPOT-1

11. Asian Ministerial Conference on Disaster Risk Reduction 2016 was held at:
   (A) Islamabad, Pakistan
   (B) New Delhi, India
   (C) Kathmandu, Nepal
   (D) None of above

12. Which of the following is conducted to reduce hazard risk ?
   (A) Mitigation (B) Preparedness
   (C) Response (D) Recovery

13. What is the most important action to be taken before an earthquake occurs ?
   (A) Cry and make loud shouts to alert people
   (B) To locate safe spots in each room
   (C) Move to higher ground
   (D) Keep household items on higher places

14. Global 'warming produces
(A) Increase in temperature with increase in precipitation
(B) Decrease in temperature with decrease in precipitation
(C) Unpredicted droughts and floods
(D) All of above

15. Which of the following is the contributory reason for the drop in the number of earthquake deaths in a geographic region?
(A) Nonstructural mitigation
(B) Building codes
(C) Public education
(D) None of the above

16. According to earthquake vulnerability, Srinagar city lies on
(A) Zone II (B) Zone III
(C) Zone IV (D) Zone V

17. Chemical released by cholorofluoro carbons that causes depletion of ozone layer in atmosphere is
(A) Sulphuric acid (B) Chlorine
(C) Nitrogen (D) Sodium chloride

18. Which is not an objective of ELA?
(A) Recycling and reduction of waste
(B) Risk analysis and disaster management
(C) People's participation in environmental planning
(D) Assessment of international funding

19. The environmental planning is:
(A) The analysis of how we can prevent the poaching of environment
(B) the analysis of how people impact natural resources
(C) the analysis of how we can preserve our biodiversity
(D) the supply of management tool to conserve our environment

20. Currently population of India is growing at the rate of:
(A) 1.23% per year (B) 2.12% per year
(C) 3% per year (D) 5% per year

21. Which of the following diseases spreads through respiratory route?
(A) Influenza (B) Mumps
(C) Measles (D) All of Above

22. Climate change points to a need for greater cooperation at
(A) local level (B) Regional level
(C) International level (D) Cross-border level

23. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the end. R is sitting to the left of A. Who is to the right of P?
(A) A (B) X
(C) S (D) Z

24. Risk in disasters is equal to
(A) Hazard x Vulnerability
(B) Hazard + Vulnerability
(C) Hazard - Vulnerability
(D) Hazard /Vulnerability

25. The difference of two numbers is 5 and the difference of their square is 135. The sum of numbers is
(A) 27 (B) 25
(C) 30 (D) 32

26. 4 men and 6 women finish a job in 8 days. While 3 men and 7 women finish it in 10 days. 10 women working together will finish it in
(A) 24 days (B) 32 days
(C) 36 days (D) 40 days

27. Find the odd number out from 10,25,45,54,60,75,80
(A) 10 (B) 45
(C) 54 (D) 75

28. A place where an earthquake originates is called the
(A) Focus (B) Plate tectonics
(C) Earthquake zone (D) Epicentre

29. National Disaster Management Authority (NDMA) of India is headed by:
(A) President of India
(B) Prime Minster of India
(C) External Minster of India
(D) Home Minster of India

30. Which of the following was termed the "International Decade for Natural Disaster Reduction"?
(A) 1980-1989 (B) 1985-1994
(C) 1990-1999 (D) 2005-2015

31. Which one of the following is not correctly matched?
(A) Jammu city – Jammu and Kashmir
(B) Kolkata – West Bengal
(C) Pune – Mahrashtra
(D) Pathankot – Himachal Pradesh

32. One fathom is equal to :
(A) 5 feet (B) 6 feet
(C) 6.5 feet (D) 7 feet

33. England was previously known by the name
(A) Ister (B) Albion
(C) Scythia (D) Mare-Interim

34. Which one of the following is richer in coal deposits?
(A) Brahmaputra valley (B) Damodar valley
(C) Godavari valley (D) Mahanadi valley

35. A line joining points of equal time is known by word
(A) Isobar (B) Isobath
(C) Isochrone (D) Isocline

36. Mark the right sequence of atmospheric layers from crust upwards:
(A) Troposphere. Stratosphere. Thermosphere. Ionosphere. Mesosphere.
(B) Troposphere. Stratosphere. Ionosphere. Mesosphere. Thermosphere.
(C) Ionosphere, Mesosphere. Troposphere. Stratosphere. Thermosphere.
(D) Troposphere. Stratosphere. Mesosphere. Ionosphere. Thermosphere.

37. Which of the following types of weathering is common in both cold and hot climatic regions?
(A) Exfoliation
(B) Granule disintegration
(C) Carbonation
(D) Block disintegration

38. Name the instrument used to measure the atmospheric pressure
(A) Barometer (B) Thermometer
(C) Spectrometer (D) Pyrometer

39. The United Nations has estimated that the world population will reach to eleven thousand million by the year
(A) 2030 (B) 2040
(C) 2050 (D) 2060

40. Who believed that similar locations lead to similar mode of life ?
(A) F. Ratzel (B) C. Ritter
(C) R. Mill (D) E.C. Semple

41. Malaysia is considered as a prosperous land because
(A) It is the largest producer of Tin
(B) It is situated on a busy trade route
(C) It has large plantation of rubber
(D) All of above

42. The outermost layer of sun is called
(A) Chromosphere (B) Corona
(C) Lithosphere (D) Photosphere

43. Sublimation describes the direct transition from
(A) Solid to vapour (B) Vapour to liquid
(C) Vapour to solid (D) Liquid to vapour

44. GIS stands for:
(A) Google Information System
(B) Geographic Information System
(C) Geological Information System
(D) None of above

45. The functioning of an ecosystem involves:
(A) Flow of energy and circulation of nutrients
(B) An increasing simplicity of relations
(C) Increasing animal population
(D) Increasing no. of trees etc.

46. Xerophytes are
(A) Plants that grow in areas of high rainfall
(B) Plants which can withstand high degree of salinity
(C) Plants which grow in areas of moderate moisture supply
(D) Plants which can withstand extreme aridity

47. The green house effect is due to:
(A) Absorption of ultraviolet radiation by sea water
(B) Absorption of infrared radiation by carbon dioxide and water vapour in the atmosphere
(C) Infrared reflection by oceanic surfaces
(D) Absorption of infrared radiation by plants

48. Look at the series:7,10,8,11,9,12,.... What number should come next?
(A) 7 (B) 10
(C) 12 (D) 13

49. Which one of the following is used in pencils?
(A) China clay (B) Charcoal
(C) Graphite (D) Silicon

50. Professor Amartya Sen is known in the field of:
(A) History
(B) Economics
(C) Disaster Management
(D) International Studies.

51. "CD" computer abbreviation usually means:
(A) Compact Disc
(B) Command Disc
(C) Copy Density
(D) Change Data

52. Who said "I therefore want freedom immediately; this very night before dawn ....."
(A) Nelson Mandela
(B) Mahatma Gandhi
(C) Ali Mohammad Jinnah
(D) Fidel Castro

53. Permanent Secretariat of SAARC countries to coordinate implementation of programs is located at:
(A) New Delhi (B) Karachi
(C) Kathmandu (D) Dhaka

54. A schedule is a list of questions which will be answered in an interview by
(A) An interviewer (B) A respondent
(C) A surveyor (D) A researcher

55. Which one may be defined as a method of measuring individual's social behaviour?
(A) Sociometry (B) Sample method
(C) Verstehen method (D) Interview method

56. What number should come next 2,4,16 ..... ?
(A) 32 (B) 64
(C) 196 (D) 256

57. Study of the solid earth is known as:
(A) Geomorphology (B) Geography
(C) Geochronology (D) Geology

58. Which is the most Important Indicator of ancient climate?
(A) Radioactivity of the deposits
(B) Type of cementing material
(C) Order of superposition of beds
(D) Type and distribution of fossils

59. The predominant agent in contact metamorphism is:
(A) Temperature (B) Pressure
(C) Chemical fluid (D) None of these

60. Which one of the following is treated as "Gift of Nile" ?
(A) Iraq (B) Egypt
(C) Muscat (D) Iran

Sr. No. 005

ENTRANCE TEST-2016

FACULTY OF PHYSICAL AND MATERIAL SCIENCE

M.A./M.Sc. DISASTER MANAGEMENT

Total Questions : 60
Time Allowed : 70 Minutes

Question Booklet Series A

Roll No. : | | | | | | |

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SEAL

1. Which school of thought advocates "Nature" as dominant factor in shaping worldly things ?

(A) Possiblism (B) Behaviourism
(C) Determinism (D) Environmentalism

2. A place where an earthquake originates is called the :

(A) Focus (B) Tsunami
(C) Fault Line (D) Epicenter

3. Abbreviation "GIS" stands for :

(A) Global Information System (B) Geographic Information System
(C) Geographic Information Survey (D) Global Information Survey

4. Sedimentary rocks are formed when sediments become compressed and cemented together in a process known as :

(A) Crystallization (B) Solidification
(C) Sedimentation (D) Lithification

5. A technique by which organic material can be accurately dated is called :

(A) 14 Carbon dating (B) Genetic engineering
(C) Orogenesis (D) None of the above

6. A nautical mile is equal to about :

(A) 5,976 feet (B) 6,276 feet
(C) 6,176 feet (D) 6,076 feet

7. The capital city of Australia is :

(A) Melbourne (B) Hobart
(C) Brisbane (D) Canberra

8. The areas up to the 100 meters around the premises such as hospitals, educational institutions and courts are :

(A) Silence Zones (B) Atrophic Zones
(C) EMP Zones (D) Irrigation Zones

9. Which one of the following metropolitan cities does not belong to Maharashtra State ?

(A) Nagpur
(B) Mumbai
(C) Pune
(D) Jamshedpur

10. Which one of the following is the indigenous satellites of India ?

(A) APPLE
(B) NOAA
(C) Meteor-3
(D) SPOT-1

11. The concept of environmental influence on human character was given by :

(A) Hecateau
(B) Hippocrates
(C) Herodotus
(D) Homer

12. One of the following is not associated with earthquake :

(A) Epicenter
(B) Focus
(C) Swells
(D) Seismograph

13. Who out of the following believed that all the races of man had a common origin ?

(A) La Blache
(B) Humboldt
(C) Ratzel
(D) Sauer

14. Which one of the following is the correct food chain ?

(A) Algae -> Daphnia -> Dragon Fly Nymph -» Newt -» Grass Snake
(B) Daphnia -» Dragon Fly Nymph -> Newt -» Algae -> Grass Snake
(C) Grass Snake -> Newt -» Dragon Fly Nymph Daphnia Algae
(D) Newt -» Grass Snake -» Dragon Fly Nymph -» Algae ->

15. The molten rocks below the earth surface is known as :

(A) Lava
(B) Sial
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(A) Canada, France, Germany, Italy, Japan, UK, USA and Russia

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ROUGH WORK

Sr. No. 005

ENTRANCE TEST-2016

FACULTY OF PHYSICAL AND MATERIAL SCIENCE

M.A./M.Sc. DISASTER MANAGEMENT

Total Questions : 60
Time Allowed : 70 Minutes

Question Booklet Series A

Roll No. : | | | | | | |

Instructions for Candidates :

1. Write your 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. Ensure that your OMR Answer Sheet has been signed by the Invigilator and the candidate himself/herself.
13. OMR Answer sheet must be handled carefully and it should not be folded or mutilated in which case it will not be evaluated.
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.

SEAL

1. Which school of thought advocates "Nature" as dominant factor in shaping worldly things ?

(A) Possiblism (B) Behaviourism
(C) Determinism (D) Environmentalism

2. A place where an earthquake originates is called the :

(A) Focus (B) Tsunami
(C) Fault Line (D) Epicenter

3. Abbreviation "GIS" stands for :

(A) Global Information System (B) Geographic Information System
(C) Geographic Information Survey (D) Global Information Survey

4. Sedimentary rocks are formed when sediments become compressed and cemented together in a process known as :

(A) Crystallization (B) Solidification
(C) Sedimentation (D) Lithification

5. A technique by which organic material can be accurately dated is called :

(A) 14 Carbon dating (B) Genetic engineering
(C) Orogenesis (D) None of the above

6. A nautical mile is equal to about :

(A) 5,976 feet (B) 6,276 feet
(C) 6,176 feet (D) 6,076 feet

7. The capital city of Australia is :

(A) Melbourne (B) Hobart
(C) Brisbane (D) Canberra

8. The areas up to the 100 meters around the premises such as hospitals, educational institutions and courts are :

(A) Silence Zones (B) Atrophic Zones
(C) EMP Zones (D) Irrigation Zones

9. Which one of the following metropolitan cities does not belong to Maharashtra State ?

(A) Nagpur
(B) Mumbai
(C) Pune
(D) Jamshedpur

10. Which one of the following is the indigenous satellites of India ?

(A) APPLE
(B) NOAA
(C) Meteor-3
(D) SPOT-1

11. The concept of environmental influence on human character was given by :

(A) Hecateau
(B) Hippocrates
(C) Herodotus
(D) Homer

12. One of the following is not associated with earthquake :

(A) Epicenter
(B) Focus
(C) Swells
(D) Seismograph

13. Who out of the following believed that all the races of man had a common origin ?

(A) La Blache
(B) Humboldt
(C) Ratzel
(D) Sauer

14. Which one of the following is the correct food chain ?

(A) Algae -> Daphnia -> Dragon Fly Nymph -» Newt -» Grass Snake
(B) Daphnia -» Dragon Fly Nymph -> Newt -» Algae -> Grass Snake
(C) Grass Snake -> Newt -» Dragon Fly Nymph Daphnia Algae
(D) Newt -» Grass Snake -» Dragon Fly Nymph -» Algae ->

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ROUGH WORK

M.A./M.Sc. Disaster Managemen

1. Which of the following is used in pencils ?
   (A) Graphite (B) Silicon
   (C) Charcoal (D) Phosphorous

2. Permanent hardness of water can be removed by adding :
   (A) chlorine (B) washing soda
   (C) potassium permanganate (D) bleaching powder

3. Which of the following is the lightest metal ?
   (A) Mercury (B) Lithium
   (C) Lead (D) Silver

4. Potassium Permanganate is used for purifying drinking water, because :
   (A) it is a sterilising agent
   (B) it dissolves the impurities of water
   (C) it is a reducing agent
   (D) it is an oxidising agent

SEAL

5. The inert gas which is substituted for nitrogen in the air used by deep sea divers for breathing, is :
   (A) Argon (B) Xenon
   (C) Helium (D) Krypton

6. Reading of a barometer going down is an indication of :
   (A) Snow (B) Storm
   (C) Intense heat (D) Rainfall

7. CD-ROM stands for :
   (A) Compactable Read Only Memory
   (B) Compact Data Read Only Memory
   (C) Compactable Disk Read Only Memory
   (D) Compact Disk Read Only Memory

t/B

8. WAN stands for :

(A) Wap Area Network
(B) Wide Area Network
(C) Wide Array Net
(D) Wireless Area Network

9. Who has won the Shanti Swarup Bhatnagar Award 2014 for biological sciences ?

(A) Dr. Kavirayani Ramakrishna Prasad
(B) Dr. Roop Malik
(C) Dr. Anurag Agarwal
(D) Dr. S. Venkata Mohan

10. Which gas is the chief constituent of Photochemical Smog in Metropolitan cities of India ?

(A) Nitric Oxide
(B) Nitrogen Oxide
(C) Sulphur Dioxide
(D) Carbon Monoxide

11. Which country of Africa was highly affected by Ebola has been recently declared ebola-free by WHO ?

(A) Sierra Leone
(B) Liberia
(C) Nigeria
(D) Guinea

12. Who has been appointed as India's new Chief Economic Advisor ?

(A) Arvind Subramanian
(B) Raghuram Rajan
(C) Kaushik Basu
(D) Jahangir Aziz

13. Who has been awarded the Nobel Prize for literature 2014 ?

(A) Alice Munro
(B) Patrick Modiano
(C) Malala Yousufzai
(D) Mo Yan

14. Who among the following bollywood actors has been appointed as the UNICEF Goodwill Ambassador for South Asia ?

(A) Amitabh Bachchan
(B) Aamir Khan
(C) Akshay Kumar
(D) Shahrukh Khan

15. In the recently concluded Asian Games 2014, what was the rank of India in the final medal tally ?

(A) 6th (B) 7th

(C) 8th (D) 9th

16. Who among the following is the present chairman of the Indian Space Research Organisation (ISRO) ?

(A) V. Adimurthy (B) K. Radhakrishnan

(C) G. Madhavan Nair (D) K. Kasturirangan

17. Which of the following Light Combat Aircraft (LCA SP 1) took its successful maiden flight recently and has been declared ready for its induction into IAF ?

(A) Tejas (B) Rudra

(C) Kiran (D) Dhruv

18. The *Lycodon Odishii*, a new species discovered in Odisha is of :

(A) Bird (B) Fish

(C) Snake (D) Frog

19. Which among the following places has been decided as the next SAARC Cultural Capital for the year 2015-2016 ?

(A) Bamiyan (B) Shenzen

(C) Kathmandu (D) New Delhi

20. Mount Ontake which had an unexpected eruption recently is located in :

(A) Indonesia (B) Japan

(C) South Korea (D) North Korea

21. Which among the following is known as "Aquatic Panda" ?

(A) Ganges River Dolphin (B) Chinese White Dolphin

(C) Indus River Dolphin (D) Amazon River Dolphin

SEAL

22. WHO is supplying a free drug to India *Liposomal Amphoterecin B* for the total eradication of :

(A) Kala Azar (B) Kala Motia

(C) Gastroenteritis (D) Chikungunya

23. Name the satellite developed by NASA to predict the frequency of occurrence of droughts in the world.

(A) SMAP (B) TMAP

(C) DMAP (D) NMAP

24. Who among the following has received the MIDORI prize for biodiversity 2014 ?

(A) Kamal Bawa (B) Kapil Sibal

(C) Pranab Acharya (D) Subhasis Dey

25. Which of the following types of clouds are also called as "Sheep clouds" or "Wool-Pack clouds" ?

(A) Alto cumulus (B) Alto stratus

(C) Nimbo stratus (D) Cirrus

26. Which among the following was the first country to impose Carbon Tax ?

(A) Russia (B) New Zealand

(C) USA (D) Sweden

27. Who is the author of the famous plays, The Captives (1963), Monsoon (1966), The Refugee (1971) and Angkor (1973) ?

(A) Badal Sircar (B) Habib Tanvir

(C) Asif Currimbhoy (D) Girish Karnad

28. Where are the headquarters of International Atomic Energy located ?

(A) New York (B) Geneva

(C) Vienna (D) Paris

29. Cultivation on hilly slopes with small patches of land in descending order is known as :

(A) Contour farming (B) Sloppy farming

(C) Track farming (D) None

30. Who has authored the book *Curfewed Night* ?

(A) Tapan Bose
(B) Basharat Peer
(C) Agha Shahid Ali
(D) Kushwant Singh

31. The Elastic Rebound Theory to explain the mode and causes of earthquake was given by :

(A) N. Krishna Brahman
(B) H. Hess
(C) H.F. Reid
(D) H.E. Horton

32. Acronym "GPRS" stands for :

(A) General Packet Radio Service
(B) Global Package Radiation Service
(C) Ground Provision Radio Service
(D) Global Package Remission Service

33. Acid rains are caused by :

(A) Concentration of Methane gas in the lower stratosphere
(B) Release of CFC's in the atmosphere
(C) Concentration of Sulphuric acid in the atmosphere
(D) All the above

34. The most potent greenhouse gas among the following is :

(A) Carbon Dioxide
(B) Methane
(C) Water Vapour
(D) Ozone

35. Pacific Tsunami Warning Centre (PTWC) is located at :

(A) Hawaii
(B) Cook Island
(C) Alaska
(D) Samoa

36. Flash floods are often caused by :

(A) Rainfall over many days
(B) Dikes and dams that are too high
(C) Less depth of the rivers
(D) Thunderstorms

37. An event similar to a Tsunami that can occur in lakes due to avalanche, earthquake and other mechanisms is called a :

(A) Seiche
(B) Splash
(C) Slosh
(D) Tidal Wave

38. The point at which a fault first ruptures in the earth is called :

(A) Hypocentre
(B) Hypercentre
(C) Hypicentre
(D) Epicentre

39. The Disaster Management Act in India was enacted on :

(A) 26th December, 2005
(B) 30th May, 2005
(C) 21st December, 2007
(D) 30th May, 2007

40. The national agency responsible for laying down the policies, plans and guidelines for disaster management in India is :

(A) National Disaster Management Authority (NDMA)
(B) National Institute of Disaster Management (NIDM)
(C) National Remote Sensing Centre (NRSC)
(D) None of the above

41. The central force constituted for the purpose of specialized response to natural and man-made disasters is named as :

(A) Central Reserve Police Force
(B) Central Industrial Security Force
(C) National Disaster Response Force
(D) National Disaster Reserve Force

42. Risk Management involves :

(A) Eliminating all workplace hazards
(B) Identifying and monitoring risks
(C) Identifying risks, assessing risks and estimating or controlling risks
(D) Hiring an employee with the job of managing risks

43. One of the following events cannot be categorised as a type of natural disaster :

(A) Earthquakes
(B) Cyclones
(C) Volcanic Eruptions
(D) Nuclear Leak

44. Cyclonic Storms are :

(A) Hydrological Disasters
(B) Meteorological Disasters
(C) Health Disasters
(D) None of the above

45. It is a ten year plan to make the world safer from natural hazards :

(A) United Nations Framework Convention on Climate Change
(B) Hyogo Framework for Action
(C) Kyoto Protocol
(D) None of the above

46. The Indian Ocean Earthquake occurred on :

(A) 26th December, 2004
(B) 24th December, 2004
(C) 8th October, 2005
(D) 24th December, 2005

47. Which two natural hazards have caused the most damage both in terms of loss of life and monetary losses over the past 50 years on the global scale ?

(A) Hurricanes and Volcanoes
(B) Hurricanes and Floods
(C) Hurricanes and Tornadoes
(D) Hurricanes and Earthquakes

48. Over 90 percent of Volcanic activity is associated with :

(A) Subduction Zones
(B) Transform Boundaries
(C) Hot Spots
(D) Plate Tectonic Boundaries

49. The Bhopal gas tragedy was caused by :

(A) Phosgene
(B) Carbon Monoxide
(C) Methyl isocyanate
(D) Chlorine

50. It is a situation that poses a level of threat to life, health, property or environment :

(A) Disaster
(B) Hazard
(C) Risk
(D) Vulnerability

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51. Look at this series : 2, 1, (1/2), (1/4), ... What number should come next ?

(A) (1/3) (B) (1/8)
(C) (2/8) (D) (1/16)

52. Look at this series : 22, 21, 23, 22, 24, 23, ... What number should come next ?

(A) 22 (B) 24
(C) 25 (D) 26

53. Odometer is to mileage as compass is to :

(A) speed (B) hiking
(C) needle (D) direction

54. Marathon is to race as hibernation is to :

(A) winter (B) bear
(C) dream (D) sleep

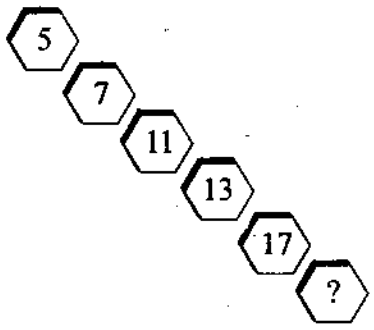
55. Optimist is to cheerful as pessimist is to :

(A) gloomy (B) mean
(C) petty (D) helpful

56. Sponge is to porous as rubber is to :

(A) massive (B) solid
(C) elastic (D) inflexible

57. Which number completes the puzzle ?



(A) 21 (B) 18
(C) 19 (D) 23

58. Which number replaces the question mark ?

(A) 35 (B) 41
(C) 38 (D) 39

59. This question consists of two words which have a certain relationship to each other followed by four pairs of related words. Select the pair which has the same relationship.
LIGHT : BLIND
(A) speech : dumb (B) language : deaf
(C) tongue : sound (D) voice : vibration

60. Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete.
Fate smiles.....those who untiringly grapple with stark realities of life.
(A) with (B) over
(C) on (D) round

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