ENTRANCE EXAMINATION-2016
M.A./ M.Sc. (Geography)
[Set A]

ROLL NO.

....
Signature of Invigilator

Time : 1 Hour 45 Minutes

Total Marks: 100

Instructions to Candidates

1. Do not write your name or put any other mark of identification anywhere in the OMR Answer Sheet. **IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR ANSWER SHEET, the OMR sheet will be cancelled, and will not be evaluated.**

2. This Question Booklet contains this cover page and a total of **100 Multiple Choice Questions of 1mark each.** Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough work.

3. Each correct answer carries one mark.

4. There is negative marking in Multiple Choice Questions. For each wrong answer 0.25 marks will be deducted.

5. USE OF CALCULATOR IS NOT PERMITTED.

6. USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iphone, iPad, pager ETC. is not permitted.

7. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.

8. Answers must be marked in the OMR answer sheet which is provided separately. OMR answer sheet must be handed over to the invigilator before you leave the seat.

9. The OMR answer sheet should not be folded or wrinkled. The folded or wrinkled OMR/Answer Sheet will not be evaluated.

10. Write your Roll Number in the appropriate space (above) and on the OMR Answer Sheet. Any other details, if asked for, should be written only in the space provided.

11. There are four alternative answers to each question marked A, B, C and D. Select one of the answers you consider most appropriate and fill up the corresponding oval/circle in the OMR Answer Sheet provided to you. The correct procedure for filling up the OMR Answer Sheet is mentioned below.

12. Use Black or Blue Ball Pen only for filling the ovals/circles in OMR Answer Sheet while answering the Questions. For your Choice of answers darken the correct oval/circle completely. If the correct answer is 'B', the corresponding oval/circle should be completely fil and darkened as shown below.

CORRECT METHOD

Ⓐ ● Ⓒ Ⓓ

WRONG METHOD

1. The concept of geosynclines was given by
   (A) James Hall and Dana
   (B) Hang
   (C) Holmes
   (D) Steers

2. The following statement "The present is the key to the past" was made by
   (A) W.M. Davis
   (B) James Hutton
   (C) Van Ritchthofen
   (D) A. Penck

3. The Base Level concept was postulated by
   (A) James Hutton
   (B) J.W. Powell
   (C) W.M. Davis
   (D) Walther Penck

4. Which of the following is formed as a result of tectonic forces?
   (A) Hanging valley
   (B) V-shaped valley
   (C) Rift valley
   (D) Blind valley

5. Identify fluvio-glacial deposits from the following:
   (A) Outwash plain
   (B) Flood plain
   (C) Penne plain
   (D) Pan plain

6. Which of the following earthquake waves are most destructive?
   (A) S-waves
   (B) P-waves
   (C) R-waves
   (D) L-waves

7. Paternoster lakes are features typical of:
   (A) Lava Plains
   (B) Piedmonts
   (C) Deserts
   (D) Glacial Troughs

8. Bad-land Topography is the product of the combined action of
   (A) Wind and Glacier
   (B) Wind and Water
   (C) Water and Glacier
   (D) Water and Temperature

9. As per the theory of plate tectonics which of the following is a super continent?
   (A) Eurasia
   (B) Africa
   (C) Antarctica
   (D) Australia

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

List – I		List - II	
(a) River		(i)	Dolines
(b) Glacier		(ii)	Inselburg
(c) Wind		(iii)	Moraines
(d) Underground water		(iv)	Leaves

    Codes:

	(a)	(b)	(c)	(d)
(A)	(iv)	(iii)	(ii)	(i)
(B)	(i)	(ii)	(iv)	(iii)
(C)	(ii)	(iii)	(i)	(iv)
(D)	(iv)	(i)	(ii)	(iii)

11. Solid material passes directly into vapour state by means of
    (A) Condensation
    (B) Sublimation
    (C) Volatalization
    (D) Convection

12. Ozone hole is located above the
    (A) Antarctica
    (B) Arctic Ocean
    (C) Equatorial zone
    (D) Greenland

13. Tornadoes are most likely to occur during
   (A) Mid-morning
   (B) Mid-afternoon
   (C) Noon
   (D) Late evening

14. Insolation reaches the earth surface in the form of
   (A) Short waves
   (B) Long waves
   (C) Microwaves
   (D) Lorenz curve

15. The range of visible wave length on electromagnetic spectrum is
   (A) 0.4 to 0.7 micrometres
   (B) 0.7 to 15.0 micrometres
   (C) 0.3 to 0.9 micrometres
   (D) 0.3 to 15.0 micrometres

16. Mediterranean climate is characterized by
   (A) Dry summer and Humid winter
   (B) Humid summer and Dry winter
   (C) Dry summer and Dry winter
   (D) Humid summer with no winter

17. Seasonal contrast in pressure between land and sea gives rise to:
   (A) Monsoons
   (B) Westerly winds
   (C) Land and Sea breezes
   (D) Trade winds

18. Flat-topped sub-marine mountains are called
   (A) Sea mounts
   (B) Abyssal mounts
   (C) Guyots
   (D) Sea Volcanoes

19. Ria is an example of
   (A) Emerged upland shore
   (B) Submerged upland shore
   (C) Neutral shore
   (D) Compound shore

20. Radiolarian Ooze are
   (A) Terrigenous Deposits
   (B) Neritic Deposits
   (C) Pelagic Deposits
   (D) Littoral Deposits

21. Which of the following terms does NOT apply to humans?
   (A) Primary producers
   (B) Primary consumers
   (C) Secondary consumers
   (D) Heterotrophs

22. Considering the urban settlements, the areas that are used for recreational amenities and golf courses are classified as:
   (A) suburbs
   (B) rural-urban fringes
   (C) CBDs
   (D) inner city areas

23. Considering settlement patterns, the settlements that are clustered together at points of major transport routes are classified as
   (A) CBD settlement patterns
   (B) reclaimed settlement patterns
   (C) nucleated settlement patterns
   (D) suburban settlement patterns

24. 'Craal 'is a house of
   (A) Bushman
   (B) Beddo
   (C) Masai
   (D) Semang

25. Match the following and select the correct answer by using codes given below:

List-I	List-II
a. China	(i) Sri Lanka
b. Caingin	(ii) Philippines
c. Canuco	(iii) Venezuela
d. Tamarai	(iv) Thailand

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Codes:
a   b   c   d
(A) i   ii   iv   iii
(B) ii   i   iv   iii
(C) iii   i   ii   iv
(D) i   ii   iii   iv

26. The equilibrium model of island biogeography predicts .... rates of extinction on islands ....

(A) Higher, farther from a source of colonists
(B) Higher, with increased area
(C) Lower, farther from a source of colonists
(D) Lower, with increased area

27. A period of arrest development in insect's development at an unfavourable time of the year is known as:
(A) Hibernation
(B) Aestivation
(C) Photoperiodic dormancy
(D) Diapause

28. A cladogram or phylogenetic tree
(A) is a hypothesis about the evolutionary relationships among a group of animal taxa
(B) is a diagram in which the sequence of branching illustrates the historical chronology of evolutionary event
(C) reflects the hierarchical classification of taxonomic groups nested within more inclusive groups.
(D) All of the above

29. Which of the following is NOT an ecological factor which determines biogeographical pattern?
(A) Climate
(B) Alien immigration
(C) Mobility
(D) Extinction of species

30. Which of the following countries leads in the production of aluminium and its products in the world?
(A) Australia
(B) France
(C) India
(D) USA

31. Which of the following crops is regarded as a plantation crop?
(A) Coconut
(B) Cotton
(C) Sugarcane
(D) Rice

32. Coolgardie and Kalgoorlie are famous as:
(A) Resort towns
(B) Mining towns (Astralia)
(C) Industrial towns
(D) Institutional towns

33. The three leading petroleum producing countries in correct descending order are:
(A) Saudi Arabia, U.S.A and Russia
(B) U.S.A, Saudi Arabia and Iran
(C) Saudi Arabia, U.S.A and Iran
(D) U.S.A, Saudi Arabia and Mexico

34. Match List-I with List-II and select the correct answer from the codes given below:

List-I   List-II
(Industrial Region)   (Country)
(a) Alabama   (i) Germany
(b) Ruhr   (ii) U.S.A
(c) Canton   (iii) South Africa
(d) South Transvaal   (iv) China

Codes:
	a	b	c	d
(A)	(i)	(iii)	(iv)	(ii)
(B)	(ii)	(i)	(iv)	(iii)
(C)	(iii)	(ii)	(i)	(iv)
(D)	(iv)	(iii)	(ii)	(i)

35. The settlement characterized by unit of small size which may consist of single house to a small group of houses is
(A) Clustered Settlement
(B) Fragmented Settlement
(C) Helmeted Settlement
(D) Dispersed Settlement

36. Gravity Model is associated with
(A) Transport
(B) Industry
(C) Migration
(D) None of the above

37. The resources can be conserved by
(A) Reducing consumption
(B) Recycling
(C) Reusing
(D) All of the above

38. The total percent of land of world under forest is
(A) 26
(B) 31
(C) 36
(D) 41

39. Which one of the following rivers does not originate in India?
(A) Beas
(B) Chenab
(C) Sutlej
(D) Ravi

40. When did the National Population Policy come into effect?
(A) 1957
(B) 1952
(C) 2000
(D) 2001

41. Which one of this is not essentially a species of the Himalayan vegetation?
(A) Juniper
(B) Mahogany
(C) Silver fir
(D) Spruce

42. Which one of the following types of forest covers the maximum area in India?
(A) Tropical rain forest
(B) Tropical moist deciduous forest
(C) Tropical dry deciduous forest
(D) Tropical dry evergreen forest

43. Among the following places, the average annual rainfall is highest at:
(A) Chennai
(B) Kolkata
(C) Shillong
(D) Guwahati

44. Mt. Everest is located in
(A) Himadri
(B) Himachal
(C) Vindhyas
(D) Siwaliks

45. The pass located at the southern end of the Nilgiri Hills in South India is called
(A) the Palghat gap
(B) the Bhorghat pass
(C) the Thalgat pass
(D) the Bolan pass

46. The southernmost point of peninsular India, that is Kanyakumari, is
(A) north of Tropic of Cancer
(B) south of the Equator
(C) south of the Capricorn
(D) north of the Equator

47. The Paithan (Jayakwadi) Hydro-electric project, completed with the help of Japan, is on the river
(A) Ganga
(B) Cauvery
(C) Narmada
(D) Godavari (Maharashtra)

48. The Yarlung Zangbo River, in India, is known as
(A) Ganga
(B) Indus
(C) Brahmaputra
(D) Mahanadi

49. The Salal Project is on the river
(A) Chenab
(B) Jhelum
(C) Ravi
(D) Sutlej

50. India's highest annual rainfall is reported at
(A) Namchi, Sikkim
(B) Churu, Rajasthan
(C) Mawsynram, Meghalaya
(D) Chamba, Himachal Pradesh

51. The refineries at Mathura, Digboi and Panipat are set up by
(A) Indian Oil Corporation Ltd.
(B) Hindustan Petroleum Corporation Ltd.
(C) Bharat Petroleum Corporation Ltd.
(D) Crude Distillation unit of Madras Refineries Ltd.

52. The year ____ is called a Great Divide in the demographic history of India.
(A) 1901
(B) 1921
(C) 1941
(D) 1951

53. The zonal soil type of peninsular India belongs to
(A) Red Soils
(B) Yellow Soils
(C) Black Soils

(D) Older Alluvium

54. Which of the following food grain crops occupies the largest part of the cropped area in India?
(A) Barley and maize
(B) Jowar and Bajra
(C) Rice
(D) Wheat

55. Which of the following groups of states has the largest deposits of iron ore?
(A) Andhra Pradesh and Karnataka
(B) Bihar and Orissa
(C) Madhya Pradesh and Maharashtra
(D) West Bengal and Assam

56. Which of the following union territories of India has the highest density of population per sq km?
(A) Pondicherry
(B) Lakshadweep
(C) Delhi
(D) Chandigarh

57. Which atomic power station in India is built completely indigenously?
(A) Kalpakkam
(B) Narora
(C) Rawat Bhata
(D) Tarapore

58. The oldest oil field in India is the ____ field, in ____
(A) Ankleshwar, Gujarat
(B) Bombay High, Maharashtra
(C) Nawagam, Gujarat
(D) Digboi, Assam

59. Which of the following crops needs maximum water per hectare?
(A) Barley
(B) Maize
(C) Sugarcane
(D) Wheat

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60. Which of the following dams has generation of power more than irrigation as its main purpose?
    (A) Gandhi Sagar
    (B) Hirakud
    (C) Periyar
    (D) Tungabhadra

61. According to Rostow the stage associated to manufacturing industry is
    (A) Pre take-off
    (B) Take-off
    (C) Drive towards maturity
    (D) Mass-consumption

62. Which five year plan is also known as "Gadgil Yojana"?
    (A) Second Five Year Plan
    (B) Third Five Year Plan
    (C) Fourth Five Year Plan
    (D) Fifth Five Year Plan

63. First five year plan was based on?
    (A) Herold -Domar Model
    (B) P.C. Mahalanobis Model
    (C) Both of above
    (D) None of above

64. Green Revolution started in
    (A) 1964-65
    (B) 1965-66
    (C) 1966-67
    (D) 1967-68

65. Which five year plan focused on "Growth with social justice and equity".
    (A) Ninth Five Year Plan
    (B) Eight Five Year Plan
    (C) Seventh Five Year Plan
    (D) Sixth Five Year Plan

66. Planning Commission was constituted on?
    (A) 15 March, 1948
    (B) 15 March, 1949
    (C) 15 March, 1950
    (D) 15 March, 1951

67. Which one of the following distances does not fit into Christaller's scheme of k = 3 hierarchy of central places?
    (A) 7
    (B) 11
    (C) 21
    (D) 36

68. Match the List-I with List-II and select the correct answer using the codes given below:

List – I	List - II
(a) Weber	(i) Crop combination
(b) Von Thunen	(ii) Agricultural location
(c) Christaller	(iii) Central place theory
(d) Weaver	(iv) Theory of Industrial location

Codes:
    (a) (b) (c) (d)
    (A) (ii) (iv) (i) (iii)
    (B) (iv) (ii) (iii) (i)
    (C) (i) (ii) (iii) (iv)
    (D) (ii) (iii) (iv) (i)

69. Who is the profounder of "Heartland" theory
    (A) Spykman
    (B) Mackinder
    (C) Haushoffer
    (D) Mahan

70. Which one of the following pairs is not correctly matched?

Proponent	Theory related with urban structure
(A) Homer Hoyt	Sector theory
(B) Sinclair	Concentric theory
(C) Christaller	Central place theory
(D) Harris and Ullman	Multiple Nuclei theory

71. Who among the following geographers laid down the foundation of dichotomy of General versus Special Geography?
    (A) Bernhard Varenius
    (B) Immanuel Kant
    (C) Peter Apian
    (D) Sebastian Munster

72. The concept of Teleology was propounded by
    (A) Alexander Von Humboldt
    (B) Carl Ritter
    (C) Oscar Peschel
    (D) Vidal de la Blasche

73. Who among the following geographers specifically emphasized on climatic determinism?
    (A) Griffith Taylor
    (B) Friedrich Ratzel
    (C) Ellsworth Huntington
    (D) Ellen Churchill Semple

74. The concept of 'Areal Differentiation' is also termed as
    (A) Exceptionalism
    (B) Chorological Study
    (C) Systematic Geography
    (D) Regionalism

75. Which one of the following is correct sequence of contributors in the development of Greek Geography?
    (A) Anaximander, Herodotus, Hipparchus, Eratosthenes
    (B) Herodotus, Eratosthenes, Hipparchus, Anaximander
    (C) Anaximander, Eratosthenes, Herodotus, Hipparchus
    (D) Anaximander, Herodotus, Eratosthenes, Hipparchus

76. Match the following List – I with List – II and select the correct answer from the codes given below:

List – I (Scholar)	List – II (Area of Specialization)
a. Brian Berry	i. Regional Geography
b. Carl Sauer	ii. Radical Geography
c. Dorreen Massey	iii. Social Geography
d. O.H.K. Spate	iv. Urban Geography

    Codes:
	a	b	c	d
(A)	iv	iii	ii	i
(B)	i	ii	iv	iii
(C)	iii	iv	i	ii
(D)	ii	i	iii	iv

77. Who one of the following determined the place of Geography in the classification of sciences?
    (A) Bernhard Varenius
    (B) Philip Cluverius
    (C) Immanuel Kant
    (D) Sebastian Munster

78. Who among the following applied the growth pole concept to geographic space, whereby growth poles came to be known as growth centres?
    (A) Friedmann
    (B) Perroux
    (C) Frank
    (D) Boudeville

79. In ancient geography, the concept of region was first postulated by whom?
    (A) Homer
    (B) Herodotus
    (C) Strabo
    (D) Ptolemy

80. The concept of the Geographical Pivot of History was proposed by
(A) Mackinder
(B) Martin
(C) Kropotkin
(D) Ratzel

81. Isochrones are lines joining place with equal—
(A) Longitude
(B) Rainfall
(C) Frost
(D) Traveling time from a point

82. The Homolographic Projection has the correct representation of
(A) Shape
(B) Area
(C) Baring
(D) Distance

83. The intersecting lines drawn on maps and globes are
(A) Latitudes
(B) Longitudes
(C) Geographic Grids
(D) None of the above

84. A map of R.F. 1/2,500 is enlarged by two-and-a-half times, what will be the scale of the enlarged map?
(A) 1/6,250
(B) 1/1,000
(C) 1/10,000
(D) 1/12,500

85. Population density is usually shown by
(A) Isopleth method
(B) Choropleth method
(C) Chorochromatic method
(D) Decimetric method

86. What is the pattern of settlement distribution if it's Rn = 2.14?
(A) Perfect cluster
(B) Partially cluster

(C) Random
(D) Perfect uniform

87. The satellite image shown in television clearly depicts
(A) Temperature and rainfall
(B) Pressure and wind
(C) Clouds and snow cover
(D) Humidity and fog

88. Visible light has wavelengths from 0.4 μm to 0.7 μm, which colour has the highest frequency?
(A) Blue
(B) Green
(C) Purple
(D) Yellow

89. Match List – I with List – II and select the correct answer using the codes given below:

List – I (Satellite)	List – II (Altitude in km)
a. Landsat V	i. 832
b. IRS	ii. 705
c. SPOT	iii. 904
d. IKONOS	iv. 681

Codes:

	a	b	c	d
(A)	ii	iv	i	iii
(B)	ii	iii	i	iv
(C)	iv	ii	iii	i
(D)	iv	i	iii	ii

90. Which one of the following characteristics separates GIS from the other systems?
(A) Map making and generalized output
(B) Linking spatial and non-spatial data
(C) Map designing and lay-out
(D) All of the above

91. Cephalic index, which is to classify human races, is calculated as
(A) Ratio between the length and breadth of the nose.

(B) Ratio between the length of head and weight of human body.

(C) Ratio between flatness and length of the head.

(D) Ratio between breadth and length of the head.

92. Which one of the following methods is best suited to show the distribution of population with rural component and urban centre of varying sizes in a region?
(A) Uniform dot method
(B) Multiple dot method
(C) Uniform dot and circle method
(D) Dot and sphere method

93. Nearest Neighbour analysis was evolved by
(A) Henry and Raize
(B) Clark and Evans
(C) Zipf
(D) Carl Pearson

94. Spatial resolution of LISS IV Sensor is ....
(A) 5.8 m
(B) 2.0 m
(C) 23.5 m
(D) 10.0 m

95. Which one of the following methods is suitable to represent the proportions of different land uses in a region?
(A) Line graph
(B) Pie diagram
(C) Hythergraph
(D) Triangular diagram

96. The dot method of distribution refers to
(A) Iconic Model
(B) Analogue Model
(C) Symbolic Model
(D) Graphical Model

97. Which one of the following is a relative measure of dispersion?
(A) Standard deviation
(B) Quartile deviation
(C) Coefficient of variation
(D) Range

98. 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) 1/11,000
(C) 1/5,000
(D) 1/33,000

99. Match List-I with List-II and select the correct answer using the codes given below:

List – I (Satellite)	List – II (Country)
(a) SPOT	(1) India
(b) GOES	(2) France
(c) Meteor-3	(3) Russia
(d) INSAT	(4) USA

Codes:

	(a)	(b)	(c)	(d)
(A)	2	4	3	1
(B)	2	4	1	3
(C)	4	2	3	1
(D)	4	2	1	3

100. Which of the following is most suitable to show the inequality in the distribution?
(A) Lorenz curve
(B) Bar graph
(C) Circle diagram
(D) Isopleth

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