1.   Which of the following soil types has least developed soil profile?
     A)   Vertisol   B)   Entisol
     C)   Spodosol   D)   Ulfisol

2.   In Geological time scale Palaeozoic era refers to:
     A)   100 to 200 million years ago
     B)   200 to 300 million years ago
     C)   300 to 600 million years ago
     D)   500 to 900 million years ago

3.   Which of the following cities has the highest annual range of temperature?
     A)   Mumbai   B)   Moscow
     C)   Manchester   D)   Milan

4.   Consider the following statements with regard to isotherms and identify the correct
     answer using codes given below:
     1. Thermal equator is located in the Northern Hemisphere
     2. In the tropical areas of Northern Hemisphere isotherms take a southward curve
         in July when they move from sea to land
     3. In the higher latitudes of Southern Hemisphere isotherms are almost a straight line

     A)   1 and 2 are correct   B)   1 and 3 are correct
     C)   Only 2 is correct   D)   Only 3 is correct

5.   Khamsin refers to a:
     A)   Hot wind in Italy   B)   Cold wind in Austria
     C)   Hot wind in Egypt   D)   Hot wind in Jordan

6.   The greatest environmental disaster due to human activity happened in:
     A)   Red sea   B)   Aral sea
     C)   Baltic sea   D)   Yellow sea

7.   The 'k' value for Administrative Principle in Christaller's Central Place Theory is
     A)   2   B)   4   C)   6   D)   7

8.   Small fortified towns that were developed in France during Medieval period are called:
     A)   Bastides   B)   Baroque city
     C)   Early dynastic towns   D)   Primate towns

9. The most important development in Geographical Methodology that took place during 1950s is:
   A) Quantitative Revolution   B) Central Place Model
   C) Sea Floor spreading concept   D) Von Thunen Model

10. Identify the correct sequence in descending order of the following language families in terms of the number of people speaking them.
    A) Indo-European, Sino-Tibetan, Niger-Congo, Afro-Asiatic
    B) Afro-Asiatic, Sino-Tibetan, Indo-European, Niger-Congo
    C) Sino-Tibetan, Afro-Asiatic, Indo-European, Niger-Congo
    D) Indo-European, Afro-Asiatic, Sino-Tibetan, Niger-Congo

11. Leptorrhine, a parameter used in racial classification is related to human:
    A) Blood group   B) Head   C) Hair   D) Nose

12. Barmer in Rajasthan is significant for the production of:
    A) Copper   B) Petroleum   C) Zinc   D) Uranium

13. Among the Indian States the largest producer of fruits in 2014 is:
    A) Himachal Pradesh   B) Tamil Nadu
    C) Maharashtra   D) Kerala

14. The headquarters of Indian Meteorological Department is located at:
    A) Pune   B) Kolkata   C) Bengaluru   D) Mumbai

15. The Indian Space Research Organization was established in:
    A) 1969   B) 1972   C) 1974   D) 1979

16. Set of points located at the edges or corners of aerial photograph are known as
    A) Principal points   B) Fiducial marks
    C) Georeference points   D) Co ordinates

17. A set of procedures for encoding and manipulating bearings, distances and angles of Survey data into Co ordinate data is known as:
    A) COGO   B) Cartesian coordinate system
    C) Calibration   D) Cascading

18. Assembling large images from smaller segments that have common angular orientations, cell sizes and map projections is called
    A) Aliasing   B) Tiling
    C) Thinning   D) Skeletonizing

19. Change in position of an image from one aerial photograph to the next by the aircraft's motion is known as:
    A) Parallax   B) Displacement   C) Tilting   D) Drift

20. Survey of India toposheet with 1:250000 scale represents an area covering:
    A) 1° latitude and 1° longitude
    B) 45' latitude and 45' longitude
    C) 30' latitude and 30' longitude
    D) 15' latitude and 15' longitude

21. Aspect of slope plays a major role in temperature distribution in:
    A) Tropical highlands   B) Coastal areas
    C) Mid latitude mountains   D) Semi arid areas

22. Identify the ocean current which is different from the other three.
    A) Benguela current   B) Humboldt current
    C) Canaries current   D) Florida current

23. Identify the **CORRECT** statement regarding salinity of oceans.
    A) Average Salinity of the ocean is about 45 parts per thousand
    B) Salinity off the coast of Belem in South America is due to low evaporation
    C) The Black sea outflow through Bosphorus is cooler and less saline
    D) North sea has low salinity because of its location at the higher latitudes

24. The major aim of National Livelihood Mission is:
    A) Poverty reduction   B) Sustainable development
    C) Improving nutrition   D) Reducing infant mortality rate

25. Which of the following programmes is related to improving rural sanitation?
    A) Nirmal Bharat Abhiyan   B) JNNURM
    C) Rajiv Awas Yojana   D) National Rural Health Mission

26. Match List I with List II and identify the correct answer using the given codes.

    List I   **List II**
    [Author]   [Book]

    I.   Thornbury   1. *Urban Geography*
    II. Carter   2. *Explanation in Geography*
    III. Harvey   3. *Geography: A Modern Synthesis*
    IV. Hartshorne   4. *The Nature of Geography*
                                    5. *Principles of Geomorphology*

	I	II	III	IV
A)	4	1	2	3
B)	5	1	2	4
C)	2	4	1	5
D)	3	1	4	5

27. Who among the following belongs to Roman School of Geography?
    A)   Hecataeus   B)   Strabo
    C)   Homer   D)   Hipparchus

28. The District with the lowest Percentage Decadal growth rate of population during 2001-2011 in Kerala is:
    A)   Alappuzha   B)   Idukki
    C)   Pathanamthitta   D)   Kottayam

29. The District with the highest population density per sq.km. in 2011 in Kerala is:
    A)   Alappuzha   B)   Thiruvananthapuram
    C)   Kozhikode   D)   Malappuram

30. As per 2011 census the lowest literacy rate among Districts in Kerala is found in:
    A)   Wayanad   B)   Idukki   C)   Palakkad   D)   Kasaragod

31. The leading bauxite producers in the world in 2014 are:
    A)   Australia & China   B)   India & Brazil
    C)   Jamaica & Brazil   D)   Guinea & Russia

32. Burgan oilfield is located in:
    A)   Iraq   B)   Saudi Arabia
    C)   Kuwait   D)   Venezuela

33. The largest exporters of tea in the world in 2014 are:
    A)   India & China   B)   Vietnam & Srilanka
    C)   Srilanka & India   D)   Srilanka & China

34. Concept of Morphogenetic Regions was first proposed by:
    A)   Chorley   B)   Peltier   C)   Budel   D)   Tricart

35. Identify the WRONG statement with regard to earthquake.
    A)   Richter scale is a logarithmic scale
    B)   Epicentre refers to the point of origin of earthquake beneath the surface
    C)   'P' waves pass through solid, liquid and gas
    D)   Shadow zone is one where both P and S waves are not received

36. Consider the following statements with regard to glacial landforms and identify the correct answer using codes given below:
    1. One side of Roche Moutonnee is smooth while the other side is irregular
    2. Drumlin occurs usually as a single hillock
    3. Arete is a smooth boundary between two adjacent glacial cirques

    A)   1 and 3 are correct   B)   2 and 3 are correct
    C)   Only 1 is correct   D)   Only 3 is correct

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37. Which of the following is **NOT** a form of precipitation?
    A)   Sleet   B)   Hail   C)   Snow   D)   Dew

38. Consider the following statements with regard to tropical cyclones and identify the correct answer using codes given below:
    1. Temperate cyclone in the Caribbean region are called Typhoons
    2. Eye of the tropical storm is usually an area of calm condition
    3. Tropical cyclones lose their strength after landfall

    A)   1, 2 and 3 are correct   B)   Only 2 and 3 are correct
    C)   Only 1 and 3 are correct   D)   Only 3 is correct

39. In Koppen's climatic types which of the following has rare occurrence?
    A)   'Af' type   B)   'Am' type
`   C)   'As' type   D)   'Aw' type

40. Which of the following statements is **WRONG**?
    A)   Karl Hassert provided the first outline of Urban Geography in 1907
    B)   Raoul Blanchard evolved the site and situation approach to study cities
    C)   Christaller used number of telephones as indicator for his Central Place Theory
    D)   Burgess explained the Concentric Zone Theory of urban land use in 1939

41. Which of the following is a Formal region?
    A)   Hinterland   B)   City region
    C)   Steppe   D)   Neighbourhood

42. Rashtriya Kisan Vikas Yojana aiming at 4% growth rate in agriculture was launched during:
    A)   Sixth Plan Period   B)   Eighth Plan Period
    C)   Twelfth Plan Period   D)   Eleventh Plan Period

43. Which of the following statements regarding Himalayas is WRONG?
    A)   They are mostly made up of sedimentary formations
    B)   Major part of Himalayan orogeny took place during Triassic period
    C)   The part of Himalayas between Sutlej and Kali rivers is called Kumaon
    D)   Pir Panjal range occurs in the western part of Middle Himalayas

44. As per the Wildlife Institute of India the number of Biogeographic regions in India is:
    A)   4   B)   8   C)   10   D)   15

45. The State with the highest Decadal growth rate of population during 2001-2011 is:
    A)   Meghalaya   B)   Mizoram
    C)   Arunachal Pradesh   D)   Bihar

46. In the Zenithal projection when the source of light is in the centre of the globe we get:
A) Gnomonic projection   B) Stereographic projection
C) Equal Area projection   D) Orthographic projection

47. The correct number of Survey of India toposheet that is to the north of 58/K/9 is:
A) 58/K/10   B) 58/J/12   C) 58/J/10   D) 58/L/12

48. It is generally considered that the first map of the world was prepared by:
A) Ptolemy   B) Hipparchus   C) Herodotus   D) Anaximander

49. Match List I with List II and identify the correct answer using the given codes.
List I   **List II**
[Geomorphologists]   [related to]

I.   Johnson   1. Pediplanation
II. Agassiz   2. Ice age concept
III. Mercalli   3. Weathering
IV. L.C.King   4. Classification of coast
                              5. Earthquake

	I	II	III	IV
A)	4	2	5	1
B)	3	5	1	4
C)	4	3	2	1
D)	5	2	3	4

50. Match List I with List II and identify the correct answer using the given codes.
List I   **List II**
[Terms]   [related to]

I.   Spit   1. Karst region
II. Uvala   2. Mass Wasting
III. Spalling   3. Weathering
IV. Slump   4. Hill slope
                              5. Sea wave action

	I	II	III	IV
A)	4	3	5	2
B)	3	5	1	4
C)	2	4	1	5
D)	5	1	3	2

51. Necropolis and Eopolis are terms used in the classification of cities by:
A) Taylor   B) Mumford   C) Berry   D) Harris

52. The term conurbation was first used by:
    A) Geddes   B) Losch   C) Mumford   D) Taylor

53. Identify the correct sequence of Districts in Kerala in the descending order as per the total number of towns in 2011.
    A) Thrissur, Kannur, Ernakulam, Kozhikode
    B) Ernakulam, Kozhikode, Thrissur, Kannur
    C) Ernakulam, Thrissur, Kozhikode, Kannur
    D) Kozhikode, Ernakulam, Kannur, Thrissur

54. Which of the following countries does not experience declining population currently?
    A) Japan   B) Iran   C) Ukraine   D) Bulgaria

55. The continent having the highest average annual growth rate of population in 2015 is:
    A) Africa   B) Asia
    C) South America   D) North America

56. Consider the following statements regarding Population of 60+ years and identify the correct answer using the codes given below:
    1. In 2015 population of 60+ years accounted for 12% share in the world population
    2. Among the continents this share is the highest in Europe
    3. Between 2015 and 2050 there will be a gradual decline of population of 60+ years

    A) 1, 2, 3 are correct   B) Only 1 and 2 are correct
    C) Only 3 is correct   D) Only 2 and 3 are correct

57. The panchromatic resolution of WorldView 3 satellite is:
    A) 0.8 metres   B) 0.6 metres   C) 0.5 metres   D) 0.3 metres

58. Which of the following is NOT an Open source GIS package?
    A) GRASS   B) ERDAS IMAGINE
    C) ILWIS   D) QGIS

59. The process in GIS in which a raster is stretched differentially to match a new set of geometric constraints is known as:
    A) Buffering   B) Overlay
    C) Rubber Sheeting   D) Boolean operations

60. Identify the correct sequence of fluvial landforms from source to destination of a river.
    A) Pothole, Meander, Distributary
    B) Distributary, Pothole, Meander
    C) Pothole, Distributary, Meander
    D) Distributary, Meander, Pothole

61. The concept propagated by Spate is called:
    A) Positivism   B) Probabilism
    C) Possibilism   D) Stop and Go Determinism

62. Among the following Radar imaging is provided by:
    A) RESOURCESAT   B) ASTROSAT
    C) RISAT   D) INSAT 4B

63. Which of the following statements regarding Geostationary satellites is WRONG?
    A) They are fixed at an altitude of about 35000 km from the earth surface
    B) INSAT series of satellites are Geostationary satellites
    C) The orbital period of them is the same like that of earth's rotation
    D) They are most useful for resource evaluation of an area

64. CARTOSAT 2C was launched in:
    A) June 2016   B) Dec 2015
    C) March 2015   D) Dec 2014

65. Identify the statement which is WRONG.
    A) Leroy set is used for lettering in maps
    B) Munns developed Climatograph
    C) Molleweide projection is also called Sansan-Flamsteed projection
    D) The average gradient between successive contours is shown by Clinographic curve

66. Match List I with List II and identify the correct answer using the given codes.

List I	List II
[Location]	[mineral]
I. Karanpura	1. Manganese
II. Tummalapalle	2. Bauxite
III. Gorumahisani	3. Iron ore
IV. Koraput	4. Coal
	5. Uranium

	I	II	III	IV
A)	2	4	5	1
B)	5	3	1	4
C)	4	3	1	2
D)	4	5	3	2

67. Among the following Dams which was commissioned first?
    A) Hirakud   B) Mettur
    C) Thungabhadra   D) Bhakra Nangal

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68.   In Kerala the district which ranks first in Tapioca cultivation is:
   A)   Thiruvananthapuram   B)   Kollam
   C)   Idukki   D)   Kottayam

69.   Donetz basin in Ukraine is rich in
   A)   Coal   B)   Petroleum
   C)   Bauxite   D)   Iron ore

70.   Match List I with List II and identify the correct answer using the given codes.

   List I   **List II**
   [Location]   [Mineral]

   I.   Mesabi   1. Coal
   II.   Donetz   2. Copper
   III. Baku   3. Iron ore
   IV.   Katanga   4. Manganese
                                     5. Oil

	I	II	III	IV
A)	5	1	2	3
B)	3	1	5	2
C)	2	4	3	5
D)	1	4	5	2

71.   In the atmosphere the layer which helps communication is:
   A)   Stratosphere   B)   Mesosphere
   C)   Ionosphere   D)   Thermosphere

72.   Line joining places having the same amount of sunshine is called:
   A)   isohel   B)   isocheim   C)   isohume   D)   isoneph

73.   Other than Vidal de la Blache the geographer who explained Human Geography in
      detail is:
   A)   Jean Brunhes   B)   Ellen Semple
   C)   Huntington   D)   Humboldt

74.   Consider the following statements regarding 2011 urban population of Kerala and
       identify the correct answer using the codes given below:
   1. Average level of urbanization in Kerala in 2011 was higher than that of India
   2. Among the city corporations, Kochi had the largest population
   3. Malappuram Urban agglomeration had a higher population than that of
       Thiruvananthapuram Urban agglomeration

   A)   1, 2, 3 are correct   B)   Only 1 and 2 are correct
   C)   Only 1 and 3 are correct   D)   Only 2 and 3 are correct

75. As per the Multiple Nuclear theory the structure of a city is:
    A)   Concentric zones   B)   Sectors
    C)   Polygons   D)   Cellular

76. The idea of Primate pattern of urban centres was outlined first by:
    A)   Northam   B)   Jefferson   C)   Dickinson   D)   Zipf

77. In 2014-2015 the continent from where India got its largest imports is:
    A)   North America   B)   Asia
    C)   Europe   D)   South America

78. Identify the correct descending order sequence of countries to which India exports goods in 2014-2015.
    A)   USA, Japan, China
    B)   China, USA, Saudi Arabia
    C)   Saudi Arabia, USA, China
    D)   USA, UAE, Hong Kong

79. States which had the highest share in coal production in India in 2014 is:
    A)   Jharkhand & Madhya Pradesh
    B)   Chhattisgarh & Jharkhand
    C)   West Bengal & Odisha
    D)   Andhra Pradesh & Jharkhand

80. Identify the **CORRECT** statement regarding lapse rate of temperature.
    A)   Normal lapse rate is 3.3° C for every 1000m ascent
    B)   Dry Adiabatic Lapse Rate is less than Wet Adiabatic Lapse rate
    C)   In adiabatic cooling heat is removed due to volume expansion
    D)   An air mass undergoes Dry Adiabatic lapse rate after dew point

81. Minamata disease was the result of water pollution containing excessive:
    A)   Sodium   B)   Pottassium
    C)   Mercury   D)   Uranium

82. The language family which has the maximum number of living languages now is:
    A)   Niger-Congo   B)   Indo-European
    C)   Austranesian   D)   Sino-Tibetan

83. As per Mackinder, the 'Heartland' in his theory refers to:
    A)   Inland Europe   B)   South Asia
    C)   Eastern China   D)   North Africa

84. Match List I with List II and identify the correct answer using the given codes.

List I	List II
[submarine landform]	[ocean]
I. Telegraph plateau	1. Southern Indian ocean
II. Kuril trench	2. Northern Atlantic ocean
III. Amsterdam-St Paul plateau	3. Southern Pacific ocean
IV. Tonga trench	4. Northern Pacific ocean
	5. Southern Atlantic ocean

	I	II	III	IV
A)	4	1	2	3
B)	2	4	1	3
C)	5	4	3	2
D)	3	4	5	2

85. World Ocean day is observed on:
    A)   3 March   B)   22 March   C)   22 May   D)   8 June

86. Three Mile Island disaster is related to:
    A)   Water Pollution   B)   Tsunami
    C)   Nuclear Plant   D)   Air Pollution

87. Match List I with List II and identify the correct answer using the given codes.

List I	List II
[National Park]	[State]
I. Kanha	1. Rajasthan
II. Bandipur	2. Andaman & Nicobar Islands
III. Ranthambore	3. Madhya Pradesh
IV. Wandur	4. Odisha
	5. Karnataka

	I	II	III	IV
A)	5	1	2	3
B)	2	4	1	3
C)	3	4	5	2
D)	3	5	1	2

88. **Assertion [A] :**   Aleutian low pressure occurs in Pacific ocean
    Reasoning [R] :   Water is a slow absorber and releaser of heat than land

    A)   Both "A" and "R" are true and "R" is the correct explanation for "A"
    B)   Both "A" and "R" are true but "R" is NOT the correct explanation for "A".
    C)   "A" is True but "R" is False
    D)   "A" is False but "R" is True

89. The second largest producer of maize in the world next to USA is:
   A)   China   B)   Brazil   C)   Argentina   D)   Mexico

90. Identify the correct descending order sequence of countries with regard to total merchandise imports in the world in 2014.
   A)   India, Japan, China   B)   USA, China, Germany, Japan
   C)   Japan, China, India, Russia   D)   Russia, Japan, India, China

91. Which of the following is the largest hydel power generation location?
   A)   Chapeton   B)   Syncrude Tailings
   C)   Three Gorges   D)   Lower Usuma

92. In a map Hachuring is a method that is used to represent:
   A)   relief   B)   canals and drainage
   C)   settlement density   D)   canopy density

93. In enlargement and reduction Similar Triangle method is best suited for:
   A)   Hilly areas   B)   Rivers
   C)   Reserved Forests   D)   Settlement areas

94. The most common Slope Analysis method was developed by:
   A)   Foster   B)   Taylor
   C)   Wentworth   D)   Monkhouse

95. Hanging wall and Foot wall are terms associated with:
   A)   Fold   B)   Fault
   C)   Weathering   D)   Mass movement

96. Identify the **WRONG** statement regarding clouds.
   A)   Cloud is a form of condensation
   B)   Cirrocumulus cloud is sometimes known as Mackerel sky
   C)   Cirrostratus clouds are capable of forming halos around sun or moon
   D)   Nimbostratus clouds are High level clouds

97. The largest producer of wind energy in the world:
   A)   India   B)   China   C)   Spain   D)   Germany

98. **Assertion [A] :**   Oxbow lakes occur in the flood plain due to straightening of the River course
   Reasoning [R] :   There is erosion in the outer curve of meander and deposition in the inner curve

   A)   Both "A" and "R" are true and "R" is the correct explanation for "A"
   B)   Both "A" and "R" are true but "R" is NOT the correct explanation for "A".
   C)   "A" is True but "R" is False
   D)   "A" is False but "R" is True

99. In world crude steel production percentage share of China in 2015 is:
A) 25 B) 32 C) 41 D) 50

100. Other than West Bengal the State which has large area under mangroves is:
A) Andhra Pradesh B) Maharashtra
C) Odisha D) Gujarat

101. The Indian satellite that was launched from Kourou in October 2016 is:
A) GSAT 18 B) Cartosat 2B
C) Astrosat D) SARAL

102. Share of Inland fisheries to the total fish production in India in 2014 is:
A) 37 % B) 41 % C) 52 % D) 64 %

103. In Demographic Transition Declining birth rate and Declining death rate occurs in:
A) Low Stationary Stage B) Early Expanding Stage
C) Late Expanding Stage D) High Stationary Stage

104. Which of the following is NOT a preventive check in Malthusian Theory of Population?
A) Diseases B) Late Marriage
C) Self control D) Celibacy

105. Todaro has developed a theory of population related to its:
A) Density B) Migration
C) Growth D) Age structure

106. Which of the following areas does not have Black soil?
A) Kathiawar peninsula B) Malwa plateau
C) Chotanagpur plateau D) Bundelkhand plateau

107. Manjira is a major tributary for river:
A) Krishna B) Godavari C) Cauvery D) Mahanadhi

108. As per 2011 Census the share of Class III towns to the total urban population in India is:
A) 7 % B) 9 % C) 12 % D) 15 %

109. Lapies are found in:
A) Desert region B) Karst region
C) Flood plains D) Coastal plains

110. Cultural Landscape studies was elaborated by:
A) Carl O Sauer B) Friedrich Ratzel
C) Ellen Semple D) Jean Brunhes

111. Consider the following statements and identify the correct answer using the codes given below:
1. Ellen Semple is a staunch propagator of Environmental Determinism
2. Ptolemy is considered as Father of Modern Geography
3. Modern Geomorphology is based on the ideas of Hutton and Playfair

A)   1, 2, 3 are correct   B)   Only 1 and 2 are correct
C)   Only 1 and 3 are correct   D)   Only 2 and 3 are correct

112. Principle of Terrestrial Unity was an idea propogated by:
A)   Carl Ritter   B)   Vidal de la Blache
C)   Von Richthofen   D)   Humboldt

113. As per Ancient Indian Geography, the present day Siberia and Northeast Asia is called
A)   Kusa Dwipa   B)   Plaska Dwipa
C)   Puskara Dwipa   D)   Kraunca Dwipa

114. Match List I with List II and identify the correct answer using the given codes.

List I	List II
[Author]	[Theme]

I.   Pattison   1. Radicalism
II. Peet   2. Spatial Diffusion
III. Hagerstrand   3. Four Traditions in Geography
IV. Hartshorne   4. Behaviouralism
                       5. Areal Differentiation

	I	II	III	IV
A)	4	1	2	3
B)	5	1	2	4
C)	2	4	1	5
D)	3	1	2	5

115. Which of the following statements regarding ecosystem is **CORRECT**?
A)   Natural Balance in ecosystem is also known as sere
B)   Omnivores make the food web simpler
C)   Decomposers in the ecosystem are also known as saprotrophs
D)   Secondary ecological succession is observed on a new volcanic island

116. Match List I with List II and identify the correct answer using the given codes

List I
[Authors]

List II
[terms]

I.   Aurousseau
II.   Hoyt
III. Dickinson
IV.   Gottman

1. City region
2. Boswash
3. Urban Population Density Model
4. Functional classification of towns
5. Sector Model

	I	II	III	IV
A)	2	5	3	1
B)	5	2	1	4
C)	4	5	1	2
D)	5	2	3	4

117. Which of the following Indian States has the lowest level of urbanization in2011?
A)   Odisha   B)   Rajasthan
C)   Jharkhand   D)   Bihar

118. The most notable MGNREGA Programme came into force from:
A)   January 2002   B)   April 2004
C)   July 2005   D)   February 2006

119. Durgapur steel plant was established with the collaboration of:
A)   Russia   B)   Germany
C)   United Kingdom   D)   Japan

120. The radiometric resolution of IKONOS satellite is:
A)   6 bit   B)   8 bit   C)   10 bit   D)   11 bit

_____