



## PART – A

1. Arrange the given words in alphabetical order and choose the one that comes last.  
A) Cover                      B) Collect                      C) Caught                      D) Callous

**Directions : A foreign expression and four English phrases are given. Identify the meaning of the foreign expression from the choices.**

2. per se  
A) By word of mouth                      B) Gossip  
C) By itself                      D) Spontaneous

**Directions : Identify the meaning of underlined word as used in the sentence, from among four alternatives.**

3. The presence of hawkers on footpaths hinders both pedestrian and vehicular movement.  
A) buyers                      B) vendors                      C) beggars                      D) rag pickers

**Directions : An idiom and four possible meaning are given, identify the meaning of the idiom from among the answer choices.**

4. A man of the world  
A) highly trust worthy                      B) very popular because of success  
C) a man of wit or genius                      D) highly experienced in many fields

**Directions : Fill in the blanks in the given sentence to make it logically and grammatically correct.**

5. Farmers know that changing winds \_\_\_\_\_ rain or drought.  
A) bring                      B) create                      C) form                      D) present

**Directions : A sentence is written in four different forms. Only one of them is grammatically correct. Choose the correct sentence as your answer.**

6.  
A) Each of the participants were given a gift  
B) Everyone of the participants were given a gift  
C) All of the participants was given a gift  
D) Each of the participants was given a gift

**Directions : Four alternative substitutes are given for the underline portion. Identify the choice that replace the underline part to form a logical and grammatically correct statement.**

7. I am hoping to see you again tomorrow at the party.  
A) I am hoping to see you                      B) I may have seen you  
C) I have been seeing you                      D) I hope to see you

**Directions : A word and four jumbled choices are given. One of the choices, when properly arranged, give the meaning of the word. Identify the correct choice.**

8. BUSY  
A) EOTRPY                      B) URDOO  
C) DSTIOINSURU                      D) AGLLEN



**Directions : From the choices, select the most suitable synonym for the main word.**

9. ADEPT

- A) devious                      B) wily                      C) clumsy                      D) dexterous

**Directions : From the choices, select the most suitable antonym for the main word.**

10. ELUCIDATE

- A) impart                      B) inflame                      C) excite                      D) baffle

**Directions : There is a certain relation between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the given pair has. Select the best alternative.**

11. Acting : Theatre :: Gambling : ?

- A) Casino                      B) Club                      C) Bar                      D) Gym

**Directions : There is a certain relation between two given numbers on one side of :: and one number is given on another side of :: while another number is to be found from the given alternatives , having the same relation with this number as the given pair has. Select the best alternative.**

12. 25 : 125 :: 36 : ?

- A) 206                      B) 216                      C) 226                      D) 318

**Directions : In the given question, four words have been given, out of which three are alike in some manner and the fourth one is different. Choose out the odd one.**

13.

- A) Titan                      B) Mercury                      C) Earth                      D) Jupiter

**Directions : In the given question, four numbers are given. Out of these, three are alike in a certain way but the rest one is different. Choose the one which is different from the rest three.**

14.

- A) 324                      B) 244                      C) 136                      D) 352

**Directions : In the given question, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern.**

15. 5,9,17,29,45, (.....)

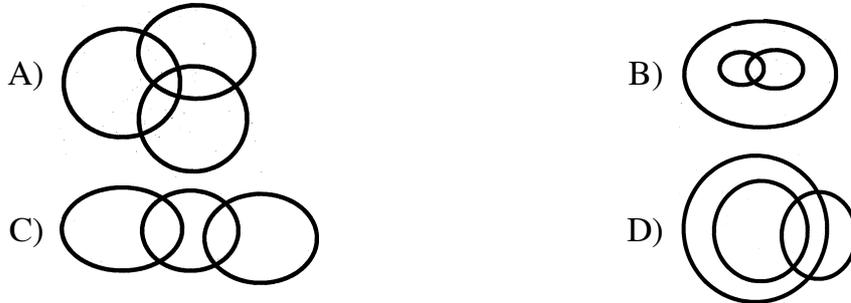
- A) 60                      B) 65                      C) 68                      D) 70

16. If in a certain language, POPULAR is coded as QPQVMBS, which word would be coded as GBNPVT ?

- A) FAMOSU                      B) FAMOUS                      C) FASOUM                      D) FOSAUM



17. Which of the following diagrams correctly represents Cricket, Players, students ?



18. Find the number which when multiplied by 15 is increased by 196.  
 A) 14                      B) 20                      C) 26                      D) 28
19. Rs. 1210 were divided among A, B, C so that  $A : B = 5 : 4$  and  $B : C = 9 : 10$  then, C gets  
 A) Rs. 340                      B) Rs. 400                      C) Rs. 450                      D) Rs. 475
20. If 11.25 meter of a uniform iron rod weighs 42.75 kg, what will be the weight of 6 meter of the same rod ?  
 A) 22.8 kg                      B) 25.6 kg                      C) 28 kg                      D) 26.5 kg
21. A train 132 meter long passes a telegraph pole in 6 seconds. Find the speed of the train.  
 A) 70 km/hr                      B) 72 km/hr                      C) 79.2 km/hr                      D) 80 km/hr
22. The Travel and Tourism Competitiveness Index (TTCI) is released by  
 A) IMF                                      B) World Bank  
 C) World Economic Forum                      D) UNCTAD
23. Scientists have discovered a protein that can make vaccinations more effective and provide protection from disease such as cancer. The protein is  
 A) Guanine                      B) Tryptophan                      C) Peptide P                      D) Por B
24. 'Bhoorsingh the Barasingha' is the Mascot of  
 A) Kanha Tiger Reserve                      B) Ranthambhore Tiger Reserve  
 C) Pench National Park                      D) Madhumalai National Park
25. Who has recently become the first Woman Field Officer in the Border Security Force (BSF) ?  
 A) Ms. Tanushree Pareek                      B) Ms. Vahini Singh  
 C) Ms. Roopa Rathore                      D) Ms. Arundhati Bhattacharya



26. Which of the following is not correct ?
- A) Research refers to a search for new knowledge
  - B) Research is an art of scientific investigation
  - C) Research is defined as a systematized effort to gain new knowledge
  - D) Research means searching the same fact again and again
27. Which of the following is correct ?
- A) The main aim of a research is to find out the hidden truth
  - B) The foremost objective of a research is to verify the known truth
  - C) The main purpose of a research is to conduct investigations only in scientific areas
  - D) The chief objective of a research is to know more about nonscientific fields
28. Which of the following is not correct as a motivation in research ?
- A) To enhance educational qualifications
  - B) To face the challenges in solving the unsolved problems
  - C) To make more money
  - D) To get intellectual satisfaction
29. Which of the following is not a type of research ?
- A) Descriptive vs. Analytical
  - B) Applied vs. Fundamental
  - C) Explanatory vs. Non-explanatory
  - D) Quantitative vs. Qualitative
30. The quantitative approach to a research includes
- A) Inferential approach
  - B) Experimental approach
  - C) Simulation approach
  - D) A, B, and C
31. Research has its special significance in solving various operational and planning problems of
- A) Business
  - B) Industry
  - C) Agriculture
  - D) A', 'B' and 'C'
32. Research methods and research methodology represent
- A) The same thing
  - B) The two different issues
  - C) The related issues
  - D) None of the above
33. Research methods include
- A) Methods for collecting the required data
  - B) Methods for finding relationship between the data and the unknowns
  - C) Methods for evaluating the accuracy of the results derived
  - D) All of the above
34. Research methodology consists of
- A) Research methods
  - B) Assumptions of research methods
  - C) Relevance of the research methods
  - D) All the above



35. Research process begins with
- A) Formulation of the research problem      B) Literature review  
C) Development of working hypothesis      D) Preparing the research design
36. Research process ends at
- A) Data collection      B) Data analysis  
C) Preparation of the report or the thesis      D) Hypothesis testing
37. A working hypothesis is defined as
- A) Central point of conclusion  
B) Tentative assumption about the target population  
C) Literature review  
D) None of the above
38. A null hypothesis denotes
- A) The neutral hypothesis      B) No hypothesis  
C) The desired hypothesis      D) B or C
39. Research design aims at
- A) Conceptual structure within which research would be carried out  
B) Formulation of strategy for drawing conclusion  
C) The data collection stage  
D) The preparation of report
40. Population means
- A) A group of objects having some common characteristics  
B) Number of persons living in a place  
C) Number of only citizens of a country  
D) Only children of a country
41. A sample represents
- A) A part of a population  
B) A smaller part that represents a population  
C) Only a smaller part of a population  
D) None of the above



42. A sample design is
- A) A definite strategy for selecting a sample from a given population
  - B) Decided after the data collection
  - C) Not important for the data collection
  - D) A or B
43. A sample size is denoted by
- A) N
  - B) n
  - C)  $\alpha$
  - D)  $\beta$
44. A population size is represented by
- A) n
  - B)  $\mu$
  - C) N
  - D)  $\alpha$
45. A sampling method could be based on
- A) Probability
  - B) Without the concept of probability
  - C) Either 'A' or 'B'
  - D) Neither 'A' nor 'B'
46. Simple random sampling is a method of
- A) Probability sampling
  - B) Non-probability sampling
  - C) Both 'A' and 'B'
  - D) Neither 'A' nor 'B'
47. Quota sampling is a method of
- A) Probability sampling
  - B) Non-probability sampling
  - C) Both 'A' and 'B'
  - D) Neither 'A' nor 'B'
48. Usually an experiment is conducted in a laboratory following
- A) Latin square design
  - B) Randomized block design
  - C) Completely randomized design
  - D) None of the above
49. In a survey schedules are used when the replies of the questions are entered by
- A) Investigators
  - B) Respondents
  - C) Both 'A' and 'B'
  - D) Neither 'A' nor 'B'
50. In a survey questionnaires are used when the replies of the questions are entered by
- A) Investigators
  - B) Respondents
  - C) Both 'A' and 'B'
  - D) Neither 'A' nor 'B'



## PART – B

51. Indian Space Research Organisation's (ISRO) PSLV-C37 successfully launched 104 satellites in a single flight. Which of the three Indian Satellites it carried ?
- A) Cartosat-2 C satellite, INS-1A and INS-1B nanosatellites  
B) Cartosat-2 D satellite, INS-1A and INS-1B nanosatellites  
C) Cartosat-2 D satellite, INS-1B and INS-1C nanosatellites  
D) Cartosat-2 C satellite, INS-1B and INS-1C nanosatellites
52. Why is a tropical cyclones rare phenomenon in the South Atlantic Ocean ?
1. Sea surface temperatures are too cold
  2. Tropospheric vertical wind shear is much too strong
  3. There is no Inter-Tropical Convergence Zone (ITCZ) over the ocean
  4. Coriolis force is too weak.
- Select the answer from the above options:
- A) 1, 2, and 3 only    B) 3 and 4 only    C) 1 and 4 only    D) 3 only
53. Using satellite measurements accumulated since the late 1970s, scientists estimate Earth's average albedo is about
- A) 0.75                      B) 0.30                      C) 0.82                      D) 0.40
54. Which of the following are correct ?
- i. The core and the mantle are separated by the Guttenberg discontinuity
  - ii. The Mantle and the crust are separated by the Conrad discontinuity
  - iii. The upper granitic and the lower basaltic layers are separated by the Mohorovicic discontinuity
- A) i and ii                      B) i only                      C) ii and iii                      D) iii
55. Match the following.
- |                    |                |
|--------------------|----------------|
| 1. Arcuate delta   | a. Indus       |
| 2. Estuarine delta | b. Narmada     |
| 3. Cuspate delta   | c. Ebro        |
| 4. Bird-foot delta | d. Mississippi |
- A) 1 – a, 2 – b, 3 – c, 4 – d                      B) 1 – a, 2 – c, 3 – b, 4 – d  
C) 1 – c, 2 – a, 3 – d, 4 – b                      D) 1 – d, 2 – c, 3 – b, 4 – a
56. Identify the right order of elements that hold greater percentage in the Earth's crust.
- A) Oxygen, silicon, aluminium, iron                      B) Oxygen, iron, silicon, nickel  
C) Oxygen, silicon, magnesium, iron                      D) Iron, oxygen, magnesium, silicon





66. Indian Remote Sensing Satellites are used for

1. Telecommunication
2. Assessment of crop productivity
3. Mineral exploration
4. Assessment of ground water
5. Road traffic and safety

Choose the correct answer using the number assigned:

- A) 2,3 and 4 only                      B) 1, 2, 3 and 4 only  
C) 1,2,3,4 and 5                      D) 1,2, and 3 only

67. How is a large city most likely to be represented on a 1:25,000 scale map ?

- A) As a single point
- B) As a collection of points, lines and areas
- C) As a line
- D) As an area

68. Who among the following is a 'race theorist' ?

- A) Joseph Arthur Comte de Gobineau                      B) Samuel George Morton  
C) Carleton S. Coon                      D) Bonds, Anne

69. Which is the largest tribe in India ?

- A) Gond                      B) Bhils                      C) Santhal                      D) Munda

70. India has Kalapani and Susta territorial dispute with

- A) Bangladesh                      B) Bhutan                      C) Nepal                      D) Myanmar

71. The Kaladan transport project by India and Myanmar consists of which of the following modes of transport?

1. roads
2. railways
3. shipping
4. inland water transport

Select the correct answer using the codes given below.

- A) 1, 2 and 3 only                      B) 1, 3 and 4 only  
C) 2, 3 and 4 only                      D) 1, 2, 3 and 4

72. In the 2011 Census, number of Urban Agglomerations and OGs were (respectively)

- A) 475 and 981                      B) 478 and 981                      C) 475 and 971                      D) 575 and 971

73. The world's largest city Tokyo has population of

- A) 48 million                      B) 38 million                      C) 36 million                      D) 28 million

74. Which of the following is the largest producer of Sugarcane in India ?

- A) Uttar Pradesh                      B) Maharashtra                      C) Tamilnadu                      D) Bihar

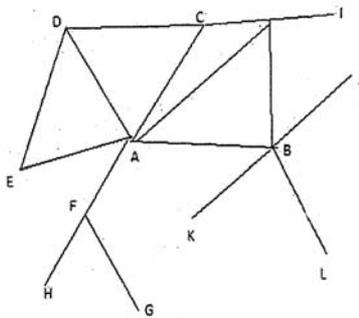


75. Which country is the largest producer of cotton in the world ?  
A) Australia                      B) China                      C) Russia                      D) India
76. Demographic transition theory states that, as a country becomes industrialized,  
A) the death rate declines and then the birth rate declines  
B) neither birth nor death rates decline  
C) the birth rate declines and then the death rate declines  
D) the death rate declines, but not the birth rate
77. The scale of the one-inch Indian toposheet converted into metric system is now given as  
A) 1 : 5,000                      B) 1 : 25,000                      C) 1 : 50,000                      D) 1 : 2,50,000
78. Two places situated on the same isogonic line in a world map will have the same  
A) ground pollution                      B) cloud cover  
C) seismic activity                      D) magnetic declination
79. Who had explained that “*Growth is not uniform in different places but growth has different degrees of intensity in different point or poles, and then it spreads via channels and its final result for the state economy is different in different regions*”:  
A) Christaller                      B) Gunnar Myrdal  
C) Francois Perroux                      D) Pitamber Pant
80. Central places are so named because they  
A) are located in the center of a rural area  
B) serve as nodal points for the distribution of goods and services to surrounding non-urban areas  
C) developed on an isotropic plain  
D) are heart of a country
81. According to the rank-size rule, the third-ranked settlement will be what ratio to the size of the first-ranked settlement ?  
A) 1/3                      B) 1/100                      C) 1/1000                      D) 3/1
82. The person who is known for his concept of biodiversity hotspot and environmental refugees is  
A) Norman Myers                      B) Arthur Tansley  
C) Charles Elton                      D) Herbert Spencer
83. Who had suggested that ‘*place is security and space is freedom*’ in context to concept of space ?  
A) Donna Haraway                      B) Anne Buttimer  
C) Yi-Fu Tuan                      D) Benedict Anderson
84. Hartshorne-Schaefer debate is very close to which of the following  
A) Idiographic and Nomothetic  
B) Environmentalism and Possibilism  
C) Particular and special  
D) Environmentalism and neo environmentalism





- 92. The apex authority of Government of India at the national level for all the issues of urban development in the country is
  - A) Ministry of Urban Affairs
  - B) Ministry of Urban Development
  - C) Ministry of Housing and Urban Development
  - D) Ministry of Urban Affairs and Development
- 93. U.S. military strategist Alfred Thayer Mahan is related with which of the canal
  - A) Suez Canal
  - B) Grand Canal
  - C) Rhine-Main-Danube Canal
  - D) Panama Canal
- 94. An original map has the RF–1/50,000 and R.F. of the new map will be 1/1,50,000. What is the correct proportion of enlargement/reduction as given below ?
  - A) Reduction 1/3
  - B) Enlargement (3 times)
  - C) Reduction 1/10
  - D) Enlargement (10 times)
- 95. A score that indicates how many standard deviations an element is from the mean is known as
  - A) Z score
  - B) T score
  - C) Chi-square test
  - D) F score
- 96. The percentage of values lies between  $\pm 2SD \bar{X} \pm 2SD$  is
  - A) 68.26%
  - B) 95.45%
  - C) 99.7%
  - D) 65%
- 97. In the transport network shown in the figure given below, which one of the locations has the maximum accessibility ?



- A) A
  - B) B
  - C) C
  - D) D
- 98. What is the pattern of settlement distribution if its  $R_n = 0.5$  ?
    - A) Perfect cluster
    - B) Partially cluster
    - C) Random
    - D) Perfect uniform
  - 99. The geological age of lignite bearing sedimentary deposits of Neyveli is
    - A) Eocene
    - B) Paleocene
    - C) Mio-Pliocene
    - D) Oligocene
  - 100. The Arab Spring refers to
    - A) the recent growth in Middle East tourism
    - B) political uprising, demonstrations and wars in the Middle East
    - C) an oasis
    - D) flooding
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**SPACE FOR ROUGH WORK**