



PART – A

1. From the words given below, which word will come last in alphabetical order ?
- | | |
|-----------|-----------|
| A) Regard | B) Refer |
| C) Remind | D) Report |

Direction Q. 2 : A foreign expression and four English phrases are given. Identify the meaning of the foreign expression from the choices.

2. via media
- | | |
|--------------------------|--------------------|
| A) Medium of instruction | B) A mediator |
| C) Bypass someone | D) A middle course |

Direction Q. 3 : Identify the meaning of underlined word as used in the sentence, from among four alternatives.

3. In our system of education, homework is imperative.
- | | |
|----------------|---------------|
| A) unnecessary | B) a handicap |
| C) authorized | D) compulsory |

Direction Q. 4 : An idiom and four possible meanings are given, identify the meaning of the idiom from among the answer choices.

4. The bottom line
- | | |
|---------------|------------------------------|
| A) the trick | B) the most important factor |
| C) the secret | D) ignorance |

Direction Q. 5 : Fill in the blanks in the given sentence to make it logically and grammatically correct.

5. _____ 15, Anthony left school and found a job in a factory.
- | | | | |
|-------|-------|----------|-------|
| A) By | B) At | C) Since | D) In |
|-------|-------|----------|-------|

Direction Q. 6 : A sentence is written in four different forms. Only one of them is grammatically correct. Choose the correct sentence as your answer.

6. A) We don't have any money to spend on luxury things.
B) We don't have any money to spend on luxuries.
C) We don't have no money to spend on luxury things.
D) We don't have any money to spend on things with luxury.



Direction Q. 7 : 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 have come to Kashmir not to work but to enjoy.
- A) but to enjoy with the beautiful scenery
 - B) but to enjoy myself
 - C) but to enjoying the beautiful scenery
 - D) but to enjoy

Direction Q. 8 : 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. AIM
- A) NETIOTNIN
 - B) ETTILL
 - C) EATRX
 - D) PYAHP

Direction Q. 9: From the choices, select the most suitable synonym for the main word.

9. RECKON
- A) repose
 - B) confirm
 - C) understand
 - D) regain

Direction Q. 10 : From the choices, select the most suitable antonym for the main word.

10. REplete
- A) profuse
 - B) wanting
 - C) lavish
 - D) glutton

Direction Q. 11 : 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. Car : Garage :: Aeroplane : ?
- A) Port
 - B) Depot
 - C) Hanger
 - D) Harbour

Direction Q. 12 : 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. 121 : 12 :: 25 : ?
- A) 1
 - B) 2
 - C) 6
 - D) 7



Direction Q. 13 : 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.

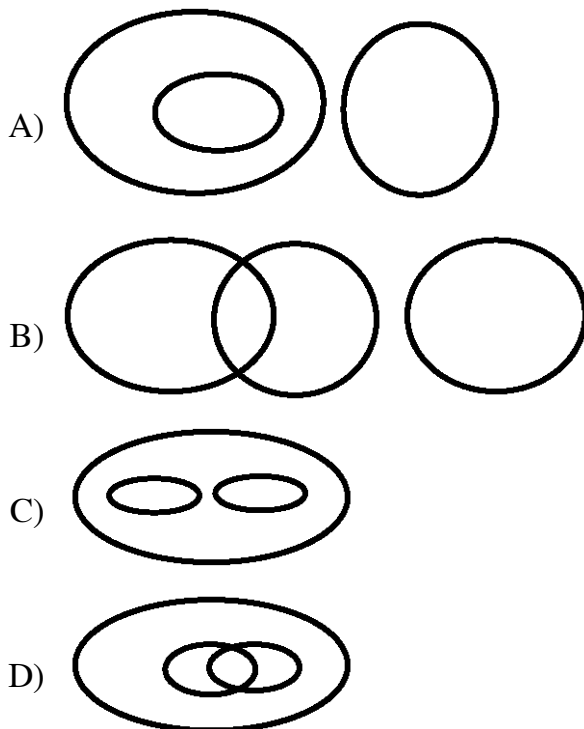
13. A) Apple B) Mango C) Potato D) Orange

Direction Q. 14 : 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) 15 B) 21 C) 24 D) 28

Direction Q. 15 : In the given question, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern.

15. 2, 5, 9, (____), 20, 27
 A) 14 B) 16 C) 18 D) 24
16. If in a certain language, FASHION is coded as FOIHSAN, how is PROBLEM coded in that code ?
 A) ROBLEMP B) PELBORM C) PRBOELM D) RPBOELM
17. Which of the following diagrams correctly represents Languages, French, German ?





18. If P denotes \div , Q denotes \times , R denotes $+$ and S denotes $-$, then
18 Q 12 P 4 R 5 S 6 = ?
A) 36 B) 53 C) 59 D) 65
19. If 76 is divided into four parts proportional to 7, 5, 3, 4, then the smallest part is
A) 12 B) 15 C) 16 D) 19
20. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work ?
A) 12 B) 18 C) 22 D) 24
21. ROM is composed of
A) Magnetic Cores B) Microprocessors
C) Photoelectric Cells D) Floppy Disks
22. ASTROSAT is
A) Indian Mission to Moon B) Indian Mission to Jupiter
C) Indian Space Observatory D) Indian Communication Satellite
23. The theme of the National Youth Day-2017 was
A) Youth for Change B) Youth for Sustainable Development
C) Youth for Digital India D) Youth for Entrepreneurship
24. Kuchipudi is a dance originating from which of the following States ?
A) Tamil Nadu B) Telangana C) Kerala D) Andhra Pradesh
25. 'NAKSHE' is a Web Portal launched by
A) Archeological Survey of India B) Survey of India
C) Geological Survey of India D) Botanical Survey of India
26. Law of conservation of mass is not applicable in
A) Redox reactions B) Electrochemical reactions
C) Nuclear reactions D) All of the above
27. In laboratory, if acid is spilled on someone, what should be done ?
A) Rinse with water B) Inform the laboratory incharge
C) Visit the physician D) All of the above
28. Which of the following is not the general characteristic of good writing ?
A) Simple B) Use of short sentences
C) Deliberate use of complex words D) Flow in the text



29. What is/are the driving force(s) for research ?
A) Search for solution to a problem
B) Enhancement of knowledge in a specific field
C) Recognition of work
D) All of the above
30. Text books are generally protected by following intellectual property
A) Copyright
B) Patent
C) Industrial design
D) Geographical indication
31. If a class of 40 students is consisted of 20 students of age of 19 years, 08 students of age of 20 years and 12 students of 25 years, the average age of class comes out to be
A) 21.3 years
B) 21 years
C) 19 years
D) 22 years
32. The pH of a buffer is generally derived from
A) Henderson–Hasselbalch equation
B) de-Broglie’s equation
C) Poiseuille’s law
D) Newton’s law
33. Which kind of research exclusively deals with numeric data ?
A) Qualitative
B) Quantitative
C) Both
D) None
34. Which portion of the thesis or dissertation, generally is the last section ?
A) Literature review
B) Methods
C) Conclusion
D) Results
35. Which is the correct answer for $1.00 + 2.149 + 4.1$?
A) 7.249
B) 7
C) 7.2
D) 7.3
36. The volume of a fluid is never expressed in
A) dm^3
B) L
C) Gallons
D) Pounds
37. Which of the following is not a method for data collection ?
A) Interviews
B) Schedules
C) Questionnaires
D) None of the above
38. Which of the following equipments is used to quantitatively suck liquids in laboratories ?
A) Pipettes
B) Beakers
C) Test tubes
D) Clamps



68. In the northern hemisphere, an easterly flow is deflected by the Coriolis force towards
A) North B) South C) West D) East
69. A narrow belt of strong winds which move in upper troposphere is called
A) westerlies B) trade winds
C) polar easterlies D) jet stream
70. Which layer of the atmosphere has the highest density of gas molecules ?
A) Exosphere B) Stratosphere
C) Mesosphere D) Troposphere
71. Global climate change is being attributed to the atmospheric increase in what two gases produced by human activities ?
A) oxygen and hydrogen
B) ozone and methane
C) methane and carbon dioxide
D) ozone and carbon monoxide
72. The available incoming solar radiation is known as
A) reflection B) insolation
C) reradiation D) absorption
73. A weather forecast in which the details about the current weather and forecasts up to a few hours ahead (but less than 24 hours) is called
A) nowcasting B) medium range forecasting
C) long range forecasting D) short range forecasting
74. The special type of thunderstorms of Gangetic plains of India which are locally known as
A) Severe thunderstorms B) Lightning
C) Kalbaisakhi D) Tornado
75. The rate of increase of temperature in the atmosphere with height is known as
A) Lapse rate B) Inversion
C) Insolation D) Short wave
76. What is the annual average amount of rainfall in Thar desert ?
A) 12 to 120 cms B) 10 to 50 cms
C) 15 to 100 cms D) 20 to 125 cms



85. Triple point of water is
A) 273° C at 6.11 KPa
B) 273 K at 61.6 KPa
C) 273.16° C at 0.611 KPa
D) 273.16 K at 750 KPa
86. A Barotropic atmosphere is one in which the density depends only on the
A) Temperature
B) Humidity
C) Winds
D) Pressure
87. In a fluid flow, vorticity is a measure of
A) Acceleration
B) Rotation
C) Divergence
D) Viscosity
88. The major composition of dry air near the earth's surface is due to
A) Oxygen
B) Carbon Dioxide
C) Hydrogen
D) Nitrogen
89. The Convective Available Potential Energy (CAPE) is directly proportional to the
A) Latent Heat
B) Buoyancy
C) Shear
D) Inversion
90. The ratio of air's actual water vapour content to its water vapour capacity at a given temperature is called
A) Specific Humidity
B) Relative Humidity
C) Absolute Humidity
D) Humidity
91. Which of the following has the highest albedo and thus more reflected solar radiation ?
A) Fresh snow
B) Water
C) Grass
D) Blacktop
92. This is the type of fog that forms on nights with light wind, clear skies, low dewpoint depressions, and moist soils.
A) Warm air advection fog
B) Upslope fog
C) Thermal fog
D) Radiational fog
93. 'Kuroshio Current' is a oceanic current and it is available in
A) South Atlantic Ocean
B) North Pacific Ocean
C) North Atlantic Ocean
D) North Indian Ocean



94. Which of the following influence the oceanic salinity ?
- A) Land
B) Wind
C) River
D) Ash from volcanoes
95. The coastal part of water bodies of the ocean which is structurally part of the mainland of the continents is called the
- A) Continental slope
B) Ocean slope
C) Oceanic ridge
D) Continental shelf
96. The primary cause of acid rain around the world is
- A) Carbon dioxide
B) Sulphur dioxide
C) Carbon monoxide
D) Ozone
97. The Sub-tropical ridge is found around the latitudes
- A) $\pm 90^0$
B) $\pm 45^0$
C) $\pm 10^0$ of Equator
D) $\pm 23.5^0$
98. What is Southern Oscillation Index (SOI) based on ?
- A) Index based on the pressure difference between Darwin and Tahiti
B) Index based on the Sea surface temperature between Darwin and Tahiti
C) Index based on Simple Optimal Interpolation
D) Index based on the amount of convection at the dateline at the equator
99. How often does El Niño occur?
- A) Every three years (periodic)
B) Every four to seven years (quasi-periodic)
C) Every fifteen to twenty years (quasi-periodic)
D) Every ten to twenty years
100. What does IOD stand for in the context of Indian summer monsoon rainfall ?
- A) Indian Ocean Dipole
B) Indian Oscillatory Dipole
C) International Ocean Dipole
D) International Oscillatory Dipole
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SPACE FOR ROUGH WORK