

Previous Year Question Paper NDA 2018 (II) GAT

###COMMON###1###1###**Directions:** in the following passage there are some blank spaces with four words or groups of words given. Select whichever word or group of words you consider most appropriate for the blank space and indicate your response on the answer sheet accordingly. ###DONE###

1. Is to (###50###)

- A. lay
- B. hatch
- C. make
- D. bear

2. Queen bee, She is (###49###) than the rest of the bees. Her main task

- A. Heaviest
- B. Heavier
- C. Largest
- D. Larger

3. together in what is known as a bee (###48###) The head of the bees is called the

- A. House
- B. Home
- C. Army
- D. Colony

4. alone, the honeybee lives as a/an (###47###) These bees live

- A. Group of a community.
- B. Individual
- C. Member
- D. Troop

5.

the honeybee is a very unusual kind of insect(###46###) which live

- A. Unlike other insects
- B. similar to

- C. With
- D. Like

###COMMON###6###6###**Directions:** each of the following in this section consists of a sentence the parts of which have been jumbled. These parts have been labelled P, Q, R and S, below each sentence are four sequences namely (a),(b),(c) and (d). You are required to rearrange jumbled parts of the sentence and mark your response on the answer sheet accordingly ###DONE###

6. The history of mankind is

P. and steady progress

Q. continuous change

R. the history of

S. from barbarism to refinement

The correct sequence should be

- A. PQRS
- B. RQPS
- C. QSPR
- D. SQRP

7. The knocking

P. were still in the house

Q. for some time

R. although the echoes of it

S. ceased

The correct sequence should be

- A. SRPQ
- B. SQRP
- C. PQSR
- D. RSPQ

8. Newton discovered that

P. due to the gravitational pull

Q. of the earth

R. the apple falls

S. on the ground

The correct sequence should be

- A. QPRS
- B. RSPQ
- C. QSPR
- D. SQRP

9. Bold rocks near at hand

P. makes a fine forest for the imagination

Q. than distant Alps

R. are more inspiring

S. and the thick fern upon a health

The correct sequence should be

- A. QRSP
- B. RSQP
- C. RQSP
- D. SRQP

10.

Domestic fires in Indian villages.

P. as the heat is dispersed

Q. an unhealthy smoke accumulates in unventilated houses

R. are wasteful

S. lit in chulhas

The correct sequence should be

- A. PQSR
- B. PQRS
- C. SPQR
- D. SRPQ

###COMMON###11###11###**Directions:** Given below are some idioms/phrases followed by four alternative meanings to each. Choose the response (a), (b), (c) or (d) which is the most appropriate meaning and mark your response on the answer sheet accordingly. ###DONE###

11. To fish in troubled waters

- A. to borrow money
- B. to steal belongings of
- C. to get benefit in bad situation
- D. to extend a helping hand

12. To be in a fix

- A. to receive strong criticism
- B. to support oneself
- C. to fix problems
- D. to be in a difficult situation

13. Walk a tightrope

- A. to be forced to leave your job
- B. to be ready to fall
- C. to act very carefully
- D. to invite danger

14. The gift of the gab

- A. ability to speak easily and confidently
- B. ability to spoil something
- C. ability to sell things
- D. gift from a sacred institution

15.

A red-letter day

- A. a trivial day
- B. a very important or significant day
- C. a day of bloodshed and violence
- D. a mourning day

###COMMON###16###16###**Directions:** Each of the following sentences in this section has a blank space and four words or groups of words given after the sentence. Select whichever word or group of words you consider most appropriate for the blank space and indicate your response on the answer sheet accordingly. ###DONE###

16. The soldiers waiting to go into battle for the first time were full of (###35###)

- A. apprehension
- B. consideration
- C. anticipation
- D. frivolity

17. I would not commit myself (###34###) that course of action

- A. of
- B. to
- C. by
- D. with

18. He had (###33###) spoken for two minutes when there was a commotion in the crowd.

- A. even
- B. hardly
- C. often
- D. little

19. If you are tired of swimming, just (###32###) for a while.

- A. struggle
- B. stroke
- C. float
- D. streak

20. They apologized (###31###) me for what happened.

- A. to
- B. at
- C. for
- D. with

21. If I were rich, (###30###) a lot.

- A. I'll travel
- B. I can travel
- C. I would travel
- D. I travelled

22. The football match has to be (###29###) because of the weather.

- A. called off
- B. continued
- C. put off
- D. turned off

23. The British (###28###) all over Africa and Asia collapsed in the first half of the twentieth century.

- A. hegemony
- B. domicile
- C. residence
- D. inheritance

24. She (###27###) her energy and started shouting only when she heard the noise of bulldozers and cranes.

- A. checked
- B. conserved
- C. maintained
- D. controlled

25.

We fail to understand your reasons for (###26###) the college without completing the degree.

- A. Attending
- B. joining
- C. leaving

D. Refusing

###COMMON###26###26###**Directions:** In this section, you have two short passages. After each passage, you will find some items based on the passage. First, read a passage and answer the items based on it and mark your response on the answer sheet accordingly. You are required to select your answers based on the contents of the passage and opinion of the author only.

COMPREHENSION

Magda: Good Morning, Mrs Smiles. Its wet, isn't it?

Mrs. Smiles : yes, it is, isn't it? How are you today? All right? You haven't been studying too hard, have you ? you look a bit pale.

Magda : I don't , do I? well, I haven't been out much lately. I don't like this weather a bit. Why, we haven't had a dry day for weeks, have we?

Mrs. Smiles : No, I don't think we have. Lets see, you'll be going back home next month, wont you?

Magda : Oh no, I'm not going back yet. My sisters coming over first.

Mrs. Smiles : Oh, is she ? you are looking forward to that. I expect. How long is it since you saw her?

Magda : Nearly a year ago. Yes, I am Looking forward to it very much.

Mrs. Smiles : She's coming over here to study?

Magda : Yes, that's right. I shan't go back home until she's settled down. I don't think I ought to, ought I?

Mrs. Smiles : Well, no, she's younger than you are, is she?

Magda : Yes, she's only eighteen

###DONE###

26. Mrs. Smiles and Magda are

- A. Classmates
- B. School friends
- C. Neighbours

D. Sisters-in-law

27. Magda's sister was coming to

- A. visit her sister
- B. help Mrs. Smiles
- C. settle down in England
- D. pursue her studies

28. Mrs. Smiles says, "you're looking forward to that." This means, Magda was _____ her sister's arrival.

- A. expecting with pleasure
- B. preparing hard for
- C. thinking greatly about
- D. watching with joy

29. Magda was not going back home yet because

- A. it had been raining heavily
- B. her sister was coming over
- C. her studies were not completed
- D. she was not feeling well

30.

Magda had not been out much lately because

- A. she had not been keeping well
- B. she was busy with her studies
- C. the weather had been unpleasant
- D. her sister had come over to stay

###COMMON###31###31### In this section, you have two short passages. After each passage, you will find some items based on the passage. First, read a passage and answer the items based on it and mark your response on the answer sheet accordingly. You are required to select your answers based on the contents of the passage and opinion of the author only.

"Now, ladies and gentlemen, 'said the conjuror, 'having shown your that the cloth is absolutely empty, I will proceed to take from it a bowl of goldfish. Presto!"

All around the hall people were saying, "Oh, how wonderful! How does he do it"? But the quick man on the front seat said in a big whisper to the people near him. "He-Had-it-up-his-sleeve". Then the people nodded brightly at the Quick man and said, "oh, of course"; and everybody whispered round the hall, "He-Had-it-up-his-sleeve". "My next trick," said the conjuror, "is the famous Hindostanee rings. You will notice that the rings are apparently separate; at a blow they all join (clang, clang, clang)—Presto!"

There was a general buzz of stupefaction till the Quick man was heard to whisper, "He-must-have-had-another-lot-up-his-sleeve". Again everybody nodded and whispered, "The-sings-were-up-his-sleeve". The brow of the conjuror was clouded with a gathering frown. "I, will now," he continued, "show you a most amusing trick by which I am enabled to take any number of eggs from a hat. Will some gentleman kindly lend me his hat? Ah, thank you—presto!

He extracted seventeen eggs, and for thirty-five seconds the audience began to think that he was wonderful. Then the quick man whispered along the front bench. " He-has -a-hen-up-his-sleeve, "and all the people whispered it on. "He-has-a-lot-of-hens-up-his-sleeve". The egg trick was ruined. It went on like that all through. It transpired from the whispers of the Quick Man that the conjuror must have concealed up his sleeve, in addition to the rings, hens, and fish, several packs of cards, a leaf of bread, a doll's cradle, a live guinen pag, a fifty-cent piece and a rocking chair.

###DONE###

31. The conjuror extracted seventeen eggs from the hat of

- A. The Quick Man
- B. his own
- C. One gentleman from the audience
- D. none of the above

32.The author believes that the Quick Man was really

- A. foolish
- B. clever
- C. wrong
- D. right

33.According to the Quick Man, the conjuror

- A. Had everything bought for production
- B. produced things with the magic he knew
- C. had things in the large sleeves of his coat

D. created an illusion of things with his magic

34. "The egg trick was ruined." This means that

- A. eggs were all broken
- B. people were unconvinced
- C. conjuror was disappointed
- D. the trick could not be performed

35.

"The brow of the conjuror was clouded with a gathering frown." The sentence means that the conjuror

- A. was very pleased
- B. was very sad
- C. was rather angry
- D. was very afraid

###COMMON###36###36###**Directions:** Each item in this section consists of a sentence with an underlined word followed by four words or group of words. Select the word or group of words that is opposite in meaning to the underlined word and mark your response in your answer sheet accordingly. ###DONE###

36. None but the brave deserves the fair.

- A. ugly person
- B. coward
- C. jealous person
- D. weak person

37. Permit me to present you with a book.

- A. allow
- B. enclose
- C. prohibit
- D. persuade

38. It is easy to be an orthodox.

- A. idolatrous
- B. intelligent

- C. malignant
- D. Heterodox

39. He is biased against the students from cities.

- A. open
- B. prejudiced
- C. liked
- D. Impartial

40.

Too many cooks spoil the broth

- A. tarnish
- B. wreck
- C. embellish
- D. upset

###COMMON###41###41###

Each item in this section consists of a part with a bold word/words followed by four words. Select the option that is **nearest in meaning** to the underlined word/words and mark your response on your Answer Sheet accordingly.

###DONE###

41. His behaviour was deliberately provocative.

- A. exciting desire
- B. infuriating
- C. pitiable
- D. creating frustration

###COMMON###42###42###

Each item in this section consists of a part with a bold word/words followed by four words. Select the option that is **nearest in meaning** to the underlined word/words and mark your response on your Answer Sheet accordingly.

###DONE###

42. My friend is as stubborn as a mule

- A. observant
- B. obnoxious
- C. obstinate
- D. corpulent

###COMMON###43###43###

Each item in this section consists of a part with a bold word/words followed by four words. Select the option that is **nearest in meaning** to the underlined word/words and mark your response on your Answer Sheet accordingly.

###DONE###

43. This boy is very timid.

- A. courageous
- B. shy
- C. clever
- D. dull

###COMMON###44###44###

Each item in this section consists of a part with a bold word/words followed by four words. Select the option that is **nearest in meaning** to the underlined word/words and mark your response on your Answer Sheet accordingly.

###DONE###

44. I had some deepest convictions reflected in my work.

- A. ideas and opinions
- B. firm beliefs
- C. prejudices
- D. biases

###COMMON###45###45### Each item in this section consists of a part with an underlined word followed by four words. Select the option that is nearest in meaning to the underlined word and mark your response on your Answer Sheet accordingly. ###DONE###

45.

The Industrial Revolution saw a **massive** rise in the population of Europe

- A. enormous
- B. erroneous
- C. hazardous
- D. perilous

###COMMON###46###46###**Directions:** Each item in this section has a sentence with three underlined parts labelled (a), (b) and (c). "Read each sentence to find out whether there is any error in any underlined part and indicate your response in the answer sheet against the corresponding letter, i.e. (a), (b) or (c). If you find no error, your response should be indicating as (d). ###DONE###

46.

We often hear people say that most human beings have not evolved
(a) (b)

or grow up enough to stick to truth or non-violence No error
(c) (d)

- A. (a)
- B. (b)
- C. (c)
- D. (d)

47.

Slow and steady owns the race, as the wise would say No error
(a) (b) (c) (d)

- A. (a)
- B. (b)
- C. (c)
- D. (d)

48.

This view has been taken by one of the ablest persons who has written on this subject No error
(a) (b) (c) (d)

- A. (a)
- B. (b)
- C. (c)

D. (d)

49.

One of the members expressed doubt if the minister was an atheist No error
(a) (b) (c) (d)

- A. (a)
- B. (b)
- C. (c)
- D. (d)

50.

He appears to be a honest man No error
(a) (b) (c) (d)

- A. (a)
- B. (b)
- C. (c)
- D. (d)

51. Which one of the following types of cloud is characterized by continuous precipitation?

- A. Cirrocumulus
- B. Cumulus
- C. Nimbostratus
- D. Cumulonimbus

52. Which one of the following Indian states has recorded negative growth of population as per Census 2011?

- A. Manipur
- B. Mizoram
- C. Tripura
- D. Nagaland

53. 'Majuli' the river island, is located in which one of the following rivers?

- A. Jamuna
- B. Padma

- C. Ganga
D. Brahmaputra

54. Match List-I with List-II and select the correct answer using the code given below the Lists :

List I	List II
(River Basin)	(Town)
A. Bhagirathi	1. Landsowne
B. Alaknanda	2. Narendra Nagar
C. Nayar	3. Uttarkashi
D. Ganga	4. Pauri

- A. A-3 B-1 C-4 D-2
B. A-3 B-4 C-1 D-2
C. A-2 B-4 C-1 D-3
D. A-2 B-1 C-4 D-3

55. Match List-I with List-II and select the correct answer using the code given below the Lists :

List I	List II
(River Basin)	(Town)
A. Bhagirathi	1. Landsowne
B. Alaknanda	2. Narendra Nagar
C. Nayar	3. Uttarkashi
D. Ganga	4. Pauri

- A. A-3 B-1 C-4 D-2
B. A-3 B-4 C-1 D-2
C. A-2 B-4 C-1 D-3
D. A-2 B-1 C-4 D-3

56. A planet has a mass M_1 and radius R_1 . The value of acceleration due to gravity on its surface is g_1 . There is another planet 2, whose mass and radius both are two times that of the first planet. Which one of the following is the acceleration due to gravity on the surface of planet 2?

- A. g_1
B. $2g_1$
C. $g_1/2$

D. $g_1/4$

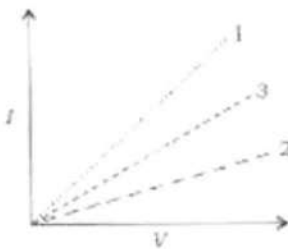
57. Consider the following statements about a microscope and a telescope:

- 1) Both the eyepiece and the objective of a microscope are convex lenses.
- 2) The focal length of the objective of a telescope is larger than the focal length of its eyepiece
- 3) The magnification of a telescope increases with the increase in focal length of its objective.

Which of the statements given above are correct?

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

58. The graphs between current (I) and voltage (V) for three linear resistors 1, 2 and 3 are given below :



If R_1 , R_2 and R_3 are the resistances of these resistors, then which one of the following is correct?

- A. $R_1 > R_2 > R_3$
- B. $R_1 < R_3 < R_2$
- C. $R_3 > R_1 > R_2$
- D. $R_3 < R_2 < R_1$

59. The connecting cable of electrical appliances like electric iron, water heater or contains three insulated copper wires of three different colours- red, green and black. Which one of the following is the correct colour code?

- A. Red-live wire, Green –neutral wire, Black –ground wire
- B. Red-neutral wire, Green-ground wire, Black-live wire
- C. Red-live wire, Green-ground wire, Black-neutral wire
- D. Red-ground wire, Green-live wire, Black-neutral wire

60. The time period of oscillation of a simple pendulum having length L and mass of the bob m is given as T . If the length of the pendulum is increased to $4L$ and the mass of the bob is increased to $2m$, then which one of the following is the new time period of oscillation?

- A. T
- B. $2T$
- C. $4T$
- D. $T/2$

61. Consider the following statements about visible light, UV light and x-rays :

- 1) The wavelength of visible light is more than that of X-rays
- 2) The energy of X-rays photons is higher than that of UV light photons.
- 3) The energy of UV light photons is less than that of visible light photons.

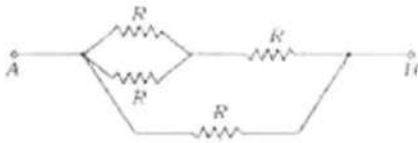
Which of the statements given above is/are correct?

- A. 1, 2 and 3
- B. 1 and 2 only
- C. 2 and 3 only
- D. 1 only

62. The absolute zero temperature is 0 kelvin. In C unit, which one of the following is the absolute zero temperature?

- A. $0\text{ }^{\circ}\text{C}$
- B. $-100\text{ }^{\circ}\text{C}$
- C. $-273.15\text{ }^{\circ}\text{C}$
- D. $-173.15\text{ }^{\circ}\text{C}$

63. Consider the following circuit:



Which one of the following is the value of the resistance between points A and B in the circuit given above?

- A. $\frac{2}{5}R$
- B. $\frac{3}{5}R$
- C. $\frac{3}{2}R$
- D. $4R$

64. If one set of chromosomes for a given plant is represented as N ; in case of double fertilization, the zygote and the endo-sperm nucleus of a diploid plant would have how many sets of chromosomes respectively?

- A. N and $2N$
- B. $2N$ and $2N$
- C. N and $3N$
- D. $2N$ and $3N$

65. Which one of the following depicts the correct circuit of a reflex arc?

- A. Effector-sensory neuron-spinal cord- motor neuron –receptor
- B. Receptor-sensory neuron-spinal cord-motor neuron – effector
- C. Receptor-sensory neuron-brain-motor neuron-effector
- D. Sensory neuron-receptor-brain-effector-motor neuron

66. The oxygen evolved during photosynthesis comes from splitting of

- A. water
- B. carbon dioxide
- C. oxygen
- D. light

67. The oxygenated blood from the lungs is received by the_____.

- A. left auricle
- B. left ventricle
- C. Right auricle

D. Right ventricle

68. The acidic semi-digested food coming out of the stomach is neutralized by

- A. pancreatic juice
- B. duodenal secretion
- C. large intestine secretion
- D. bile juice

69. Which one of the following is called dry ice?

- A. Solid carbon dioxide
- B. Liquid carbon dioxide
- C. Liquid nitrogen
- D. Liquid ammonia

70. Which one of the following statements is not correct?

- A. All carbons in diamond are linked by carbon-carbon single bond.
- B. Graphite is layered structure in which layers are held together by weak van der Waals forces.
- C. Graphite layers are formed by hexagonal rings of carbon atoms.
- D. Graphite layers are held together by carbon-carbon single bond.

71. Which one of the following is a tribasic acid?

- A. Hydrochloric acid
- B. Nitric acid
- C. Sulphuric acid
- D. Phosphoric acid

72. Which one of the following reactions will give NO (nitric oxide) gas as one of the products?

- A. $3\text{Cu} + 8\text{HNO}_3$ (dilute) \rightarrow
- B. $\text{Cu} + 4\text{HNO}_3$ (Conc.) \rightarrow
- C. $4\text{Zn} + 10\text{HNO}_3$ (dilute) \rightarrow
- D. $\text{Zn} + 4\text{HNO}_3$ (conc) \rightarrow

73. Permanent hardness of water cannot be removed by which one of the following methods?

- A. Treatment with washing soda
- B. Calgon's method
- C. Boiling
- D. Ion exchange method

74. Which one of the following is known as a zone of sharp salinity change in the vertical section of ocean?

- A. Thermocline
- B. Halocline
- C. photic zone
- D. Pycnocline

75. Which one of the following statements about temperature is correct?

- A. Temperature decreases with height in the stratosphere
- B. Temperature is constant at different heights in the stratosphere
- C. Temperature increases with height in the troposphere at an average rate of 6.5 C per kilometer
- D. Temperature decreases with height in the troposphere at an average rate of 6.4 C per kilometer.

76. Consider the following Wildlife Sanctuaries of India:

- 1) Shikari Devi
- 2) Bhadra
- 3) Simlipal
- 4) Pachmarhi

Which one of the following is the correct order of the above Wildlife Sanctuaries in terms of their location from south to north?

- A. 1-2-3-4
- B. 2-4-3-1
- C. 2-3-4-1
- D. 3-1-2-4

77. Which one of the following is known as uplands of delta region?

- A. Bef
- B. Bills
- C. Peh
- D. chars

78. Consider the following places of India:

- 1) Itanagar
- 2) Imphal
- 3) Agartala
- 4) Aizawl

Which one of the following is the correct chronological order of the above places in terms of sunrise time?

- A. 3-2-1-4
- B. 2-1-4-3
- C. 1-4-3-2
- D. 4-3-2-1

79. If a free electron moves through a potential difference of 1kV, then the energy gained by the electron is given by

- A. 1.6×10^{-19} J
- B. 1.6×10^{-16} J
- C. 1×10^{-19} J
- D. 1×10^{-16} J

80. The full form of LED is _____.

- A. Light Emitting Diode
- B. Light Emitting Devise
- C. Light Enhancing Devise
- D. Light Enhancing Diode

81. Which one of the following is the correct relation between A and nm?

- A. $1 \text{ nm} = 10^{-1} \text{ A}$
- B. $1 \text{ nm} = 10 \text{ A}$
- C. $1 \text{ nm} = 1 \text{ A}$

D. $1 \text{ nm} = 10^{-2} \text{ A}$

82. A stainless-steel chamber contains Ar gas at a temperature T and pressure P. The total number of Ar atoms in the chamber is n. Now Ar gas in the chamber is replaced by CO₂ gas and the total number of CO₂ molecules in the chamber is n/2 at the same temperature T. The pressure in the chamber now is P'. Which one of the following relations holds true? (Both the gases behave as ideal gases)

- A. $P' = P$
- B. $P' = 2P$
- C. $P' = P/2$
- D. $P' = P/4$

83. The magnetic field strength of a current carrying wire at a particular distance from the axis of the wire

- A. Depends upon the current in the wire
- B. Depends upon the radius of the wire
- C. Depends upon the temperature of the surroundings
- D. None of the above

84. The frequency of ultrasound waves is

- A. less than 20 Hz
- B. between 20 Hz and 2 kHz
- C. between 2 kHz and 20 kHz
- D. greater than 20 kHz

85. Which one of the following is called 'syngas'?

- A. $\text{C(s)} + \text{H}_2\text{O(g)}$
- B. $\text{CO(g)} + \text{H}_2\text{O(g)}$
- C. $\text{CO(g)} + \text{H}_2\text{(g)}$
- D. $\text{NO}_2\text{(g)} + \text{H}_2\text{(g)}$

86. What is the molar mass of anhydrous sodium carbonate? (Given that the atomic masses of sodium, carbon and oxygen are 23 u, 12 u and 16 u respectively)

- A. 286 u
- B. 106 u
- C. 83 u

D. 53 u

87. Which one of the following is a heterogeneous mixture?

- A. Hydrochloric acid
- B. Vinegar
- C. Milk
- D. Soda water

88. A sample of oxygen contains two isotopes of oxygen with masses 16 u and 18 u respectively. The proportion of these isotopes in the sample is 3: 1. What will be the average atomic mass of oxygen in this sample?

- A. 17.5 u
- B. 17 u
- C. 16 u
- D. 16.5 u

89. The atomic number of an element is 8. How many electrons will it gain to form a compound with sodium?

- A. One
- B. Two
- C. Three
- D. Four

90. Which one of the following is a waterborne disease?

- A. Jaundice
- B. Tuberculosis
- C. Rabies
- D. Arthritis

91. Which of the following kingdoms has/have only unicellular organisms?

- A. Monera only
- B. Protista only
- C. Monera and Protista both

D. Protista and fungi both

92. Damage to the apical meristem of a growing young plant will affect the

- A. length of the plant
- B. colour of the flower
- C. colour of the leaves
- D. taste of the fruits

93. One of the additional functions of Smooth Endoplasmic Reticulum (SER) is

- A. protein synthesis
- B. lipid synthesis
- C. storage of biomolecules
- D. detoxification of toxic substances

94. Which one of the following groups of cellular organelles contains DNA?

- A. Mitochondria, nucleus, chloroplast
- B. Mitochondria, Golgi bodies, nucleus
- C. Mitochondria, plasma membrane, nucleus
- D. Chloroplast, nucleus, ribosomes

###COMMON###95###95###**Directions:** The following six (6) items consist of two statements. Statement I and statement II. Examine these two statements carefully and select the correct answer using the code given below. ###DONE###

95. **Statement I :**

Geostrophic wind blows above a height of 600 meters, parallel to the isobars

Statement II :

Geostrophic wind is the horizontal wind velocity, in which the coriolis force balances the horizontal pressure force.

- A. Both the statements are individually true and statement II is the correct explanation of statement I
- B. Both the statements are individually true but Statement II is not the correct explanation of Statement I
- C. Statement I is true Statement II is false

D. Statement I is false but statement II is true

96. Statement I :

Phytoplankton produces most of the organic carbon in the ocean

Statement II :

Algae are produced in the cold-water biome

- A. Both the statements are individually true and statement II is the correct explanation of statement I
- B. Both the statements are individually true but Statement II is not the correct explanation of Statement I
- C. Statement I is true Statement II is false
- D. Statement I is false but statement II is true

97. Statement I :

Mughal painting reached its climax during the reign of Jahangir.

Statement II :

Aurangzeb's Court was adorned by some of the best-known artists of the Mughal School of Painting.

- A. Both the statements are individually true and statement II is the correct explanation of statement I
- B. Both the statements are individually true but Statement II is not the correct explanation of Statement I
- C. Statement I is true Statement II is false
- D. Statement I is false but statement II is true

98. Statement I :

The Government of India Act, 1935 introduced Dyarchy at the Centre.

Statement II :

The provincial autonomy was granted to the provinces.

- A. Both the statements are individually true and statement II is the correct explanation of statement I
- B. Both the statements are individually true but Statement II is not the correct explanation of Statement I

- C. Statement I is true Statement II is false
- D. Statement I is false but statement II is true

99. **Statement I :**

Sound wave cannot propagate in vacuum.

Statement II :

Sound waves are elastic waves and require a medium to propagate

- A. Both the statements are individually true and statement II is the correct explanation of statement I
- B. Both the statements are individually true but Statement II is not the correct explanation of Statement I
- C. Statement I is true Statement II is false
- D. Statement I is false but statement II is true

100.

Statement I :

The pitch of the sound wave depends upon its frequency

Statement II :

The loudness of the sound wave depends upon its amplitude

- A. Both the statements are individually true and statement II is the correct explanation of statement I
- B. Both the statements are individually true but Statement II is not the correct explanation of Statement I
- C. Statement I is true Statement II is false
- D. Statement I is false but statement II is true

101. Which one of the following Statements about Bipin Chandra Pal is correct?

- A. He was a member of the moderate group of Congress
- B. He was a member of the extremist group of Congress
- C. He was the Minister of Defence in the first Government of independent India
- D. He was the chief Minister of West Bengal

102.The Theosophical Society was led by -

- A. A.O. Hume
- B. Arthur Griffith
- C. Annie Besant
- D. Lord Dufferin

103.Article 352 of the Constitution of India contains provisions related to

- A. financial emergency
- B. failure of constitutional machinery in States
- C. Suspension of the enforcement of rights conferred in part III of the constitution
- D. general Emergency

104.Dr. Bindeshwar pathak, who was awarded Nikkei Asia Prize, 2018 for culture and community, is the founder of

- A. Bachpan Bachao Andolan
- B. PRS Legislative Research
- C. Sulabh Sanitation and Social Reform Movement
- D. Smile Foundation

105.'Seva Bhoj Yojana; a scheme of the Government of India That seeks to reimburse Central share of CGST and IGST on Food/Prasad/Langar/Bhandara offered by religious institutions, is introduced recently by which one of the following Ministries?

- A. The Ministry of Culture
- B. The ministry of Home Affairs
- C. The Ministry of Consumer Affairs, Food and Public Distribution
- D. The Ministry of Social Justice and Empowerment

106.Which one of the following is the theme of the World Blood Donor Day, 2018?

- A. Blood connects us all
- B. Be there for someone else. Give blood. Share life
- C. Give blood. Give now. Give often
- D. Thank you for saving my life

107.Who among the following is the ex officio Chairman of the North Eastern Council?

- A. The President of India
- B. The Prime Minister of India
- C. The union Home Minister
- D. The union Minister of State (Independent Charge), Ministry of Development of North Eastern Region

108. Which one of the following Indian States (other than Himalayan or NE States) ranked first in the Composite Water Management Index as per the report issued by the NITI aayog in June 2018?

- A. Madhya Pradesh
- B. Karnataka
- C. Gujarat
- D. Maharashtra

109. The place of English East India Company settlement in Madras was known as

- A. Fort William
- B. Fort St. George
- C. Elphinstone Circle
- D. Marble Palace

110. The word 'socialist' was inserted into the Preamble to the Constitution of India through which one of the following Amendment Acts?

- A. 41st Amendment Act
- B. 42nd Amendment Act
- C. 43rd Amendment Act
- D. 44th Amendment Act

111. Which one of the following is not a part of the Directive Principles of State Policy as enshrined in the Constitution of India?

- A. Equal justice and free legal aid
- B. Protection of monuments and places and objects of national importance
- C. Protection of personal law
- D. Separation of Judiciary from Executive

112. The Nehru-Mahalanobis Strategy of Development was implemented for the first time by which one of the following Five-Year plans?

- A. First Five-Year Plan
- B. Second Five-Year Plan
- C. Third Five-Year Plan
- D. Seventh Five-Year plan

113. Every Judge of the Supreme Court of India is appointed by the _____.

- A. Supreme Court Collegium
- B. Cabinet
- C. President of India
- D. Lok sabha

114. Who among the following leaders started the Indian Home Rule League?

- A. Gopal Krishna Gokhale
- B. Mahatma Gandhi
- C. Bal Gangadhar Tilak
- D. J. B. Kripalani

115. Who among the following is not a member of G7?

- A. France
- B. Germany
- C. Russia
- D. Japan

116. India, in June 2018, asserted that any mega connectivity project must respect sovereignty and territorial integrity of the countries. The project referred to above is

- A. North-South Corridor Project
- B. Belt and Road Initiative
- C. Chabahar Port
- D. Panama Canal Expansion

117. Sentosa island, which was in news recently, is located in

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- A. Singapore
- B. China
- C. Australia
- D. Sri Lanka

118. The Headquarters of the proposed National Sports University (as per the National Sports University Ordinance, 2018) will be set up in

- A. Chhattisgarh
- B. Manipur
- C. Kerala
- D. West Bengal

119. Which one of the following is the official mascot of the FIFA World Cup, 2018?

- A. Fuleco
- B. Zakumi
- C. Pille
- D. Zabivaka

120. Match List-I with List-II and select the correct answer using the code given below the Lists :

List-I (Author)	List-II (Book)
A. Bal Gangadhar Tilak	1. The art of Home in the Vedas
B. Dadabhai Naoroji	2. Hind Swaraj
C. Mahatma Gandhi	3. The discovery of India
D. Jawaharlal Nehru	4. Poverty and British rule in India

- A. A-3 B-4 C-2 D-1
- B. A-3 B-2 C-4 D-1
- C. A-1 B-2 C-4 D-3
- D. A-1 B-4 C-2 D-3

121. The Central Vigilance Commission was established on the recommendation of which one of the following Committees?

- A. Santhanam Committee
- B. Dinesh Goswami Committee
- C. Tarkunde Committee

D. Narasimham Committee

122. Where did the French East India Company first establish its factory in India?

- A. Calicut
- B. Surat
- C. Pondicherry
- D. Masulipatnam

123. Who among the following travellers was from Italy and visited Vijayanagar Kingdom in the fifteenth century?

- A. Nikitin
- B. Fa-Hien
- C. Bernier
- D. Nicolo Conti

124. When did the Stamp Act Congress consisting of delegates from 9 of the 13 colonies of America meet in New York City?

- A. 1763
- B. 1764
- C. 1765
- D. 1766

125. Which one of the following pairs is correctly matched?

Bhakti Saint Philosophy

- A. Shankara : Advaita
- B. Ramananda : Kevaladvaita
- C. Ramanuja : Vishishtadvaita
- D. Chaitanya : Advaita

126. Consider the following statements about merchant guilds of South India :

- 1) Ayyavole merchant guild was originally established in Aihole.
- 2) Manigramam merchant guild was subordinated to the Anjuvannam merchant guild in the 13th century.

Which of the statements given above is/are correct?

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

127. Which one of the following crops was introduced by the Portuguese in India?

- A. Opium
- B. Coffee
- C. Betel leaf
- D. Chili

128. Which one among the following is **not** a Fundamental Right under the Constitution of India?

- A. Right to equality
- B. Right to freedom
- C. Right to citizenship
- D. Right against exploitation

129. A circular coil of radius R having N number of turns carries a steady current I . The magnetic induction at the centre of the coil is 0.1 tesla. If the number of turns is doubled and the radius is halved, which one of the following will be the correct value for the magnetic induction at the centre of the coil?

- A. 0.05 tesla
- B. 0.2 tesla
- C. 0.4 tesla
- D. 0.8 tesla

130. An object is placed in front of a convex mirror. Which one of the following statements is correct?

- A. It will never form an inverted image
- B. The image moved towards the focus when the object moves towards the mirror.
- C. Depending on the position of the object with respect to the mirror, the image can be inverted and real
- D. The size of the image becomes larger than that of the object when the

object is placed at a distance equal to half the focal length

131. Which one of the following statements is correct for a plane mirror?

- A. Its focal length is zero
- B. The size of the image of an object placed in front of the mirror is slightly less than that of the object.
- C. The image is virtual, erect and laterally inverted
- D. Its focal length is 200 cm

132. Which one of the following is not a process of Chemical Weathering?

- A. Solution
- B. Carbonation
- C. Oxidation
- D. Exfoliation

133. Steppe (temperature continental) climate is not experienced in which one of the following places?

- A. Pretoria
- B. Saskatchewan
- C. Perth
- D. Buenos Aires

134. Which one of the followings the correct descending order of Indian states in terms of sex ratio as per Census 2011?

- A. Mizora, -Manipur- Tripura-Meghalaya
- B. Tripura-Manipur- Meghalaya-Mizoram
- C. Meghalaya-Manipur- Mizoram-Tripura
- D. Manipur-Meghalaya-Tripura-Mizoram

135. Match List-I with List-II and select the correct answer using the code given below the lists:

List-I	List-II
(railway Zone)	(Headquarters)
A. West central	1. Jabalpur
B. South East Central	2. Gorakhpur
C. East Central	3. Bilaspur
D. North Easterns	4. Hajipur

- A. A-2 B-3 C-4 D-1
- B. A-1 B-4 C-3 D-2
- C. A-2 B-4 C-3 D-1
- D. A-1 B-3 C-4 D-2

136. Match List-I with List-II and select the correct answer using the code given below the Lists :

List-I (Koppen's Climatic type)	List-II (Letter Code)
A. Tropical wet	1. Af
B. Mid- latitude desert	2. Cs
C. Mediterranean	3. Df
D. Humid continental	4. BWk

- A. A-1 B-4 C-2 D-3
- B. A-1 B-2 C-4 D-3
- C. A-3 B-2 C-4 D-1
- D. A-3 B-4 C-2 D-1

137. Which one of the following greenhouse gases is in largest concentration in the atmosphere?

- A. Chlorofluorocarbon
- B. Nitrous oxide
- C. Carbon dioxide
- D. Methane

138. The refractive indices of two media are denoted by n_1 and n_2 , and the velocities of light in these two media are respectively v_1 and v_2 . If n_2/n_1 is 1.5, which one of the following statements is correct?

- A. v_1 is 1.5 times v_2
- B. v_2 is 1.5 times v_1
- C. v_1 is equal to v_2
- D. v_1 is 3 times v_2

139. The coefficient of areal expansion of a material is $1.6 \times 10^{-5} \text{ K}^{-1}$, which one of the following gives the value of coefficient of volume expansion of this material?

- A. $0.8 \times 10^{-5} \text{ K}^{-1}$
- B. $2.4 \times 10^{-5} \text{ K}^{-1}$

- C. $3.2 \times 10^{-5} \text{ K}^{-1}$
- D. $4.8 \times 10^{-5} \text{ K}^{-1}$

140. A ball is released from rest and rolls down an inclined plane, as shown in the following figure, requiring 4 s to cover a distance of 100 cm along the plane:



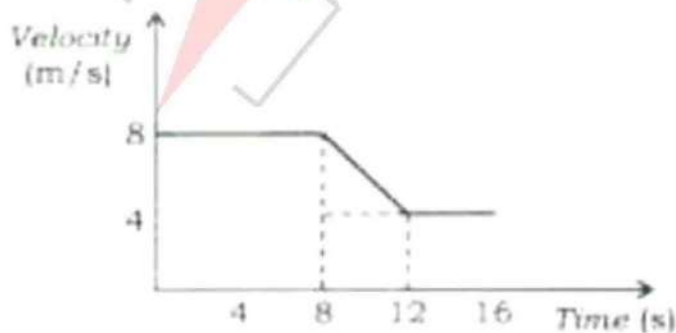
Which one of the following is the correct value of angle θ that the plane makes with the horizontal? ($g = 1000 \text{ cm/s}^2$)

- A. $\theta = \sin^{-1} (1/9.8)$
- B. $\theta = \sin^{-1} (1/20)$
- C. $\theta = \sin^{-1} (1/80)$
- D. $\theta = \sin^{-1} (1/100)$

141. If the focal length of a convex lens is 50cm, which one of the following is its power?

- A. +2 dioptre
- B. +0.02 dioptre
- C. -0.5 dioptre
- D. +0.5 dioptre

142. Consider the following velocity and time graph :



Which one of the following is the value of average acceleration from 8s to 12s?

- A. 8 m/s^2
- B. 12 m/s^2
- C. 2 m/s^2
- D. -1 m/s^2

143. The wavelength of X-rays is of the order of

- A. 1 A
- B. $1 \mu\text{m}$
- C. 1 mm
- D. 1 cm

144. Which one of the following statements about the law of conservation of mass is correct?

- A. A given compound always contains exactly same proportion of elements.
- B. When gases combine in a reaction, they do so in a simple ratio by volume, provided all gases are at room temperature
- C. Matter can neither be created nor destroyed
- D. Equal volumes of all gases at same temperature and pressure contain equal number of molecules.

145. Which one of the following is the chemical formula of gypsum?

- A. $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- B. Ca_2SiO_4
- C. $2\text{CaSO}_4 \cdot \text{H}_2\text{O}$
- D. CaSO_4

146. Which one of the following is not used as fertilizer?

- A. Ammonium nitrate
- B. Ammonium sulphide
- C. Ammonium phosphate
- D. Ammonium sulphate

147. Which one of the following is an oxidation reduction reaction?

- A. $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
 B. $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$
 C. $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$
 D. $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{BaSO}_4 + 2\text{NaCl}$

148. The solution of which one of the following will have pH less than 7 ?

- A. NaOH
 B. KCl
 C. FeCl_3
 D. NaCl

149. Which one of the following is not an agent of metamorphism?

- A. Heat
 B. Compression
 C. Decomposition
 D. Solution

150. Match List-I and List-II and select the correct answer using the code given below the Lists:

List-I	List-II
(major port)	(location)
A. Kolkata	1. Landlocked area
B. Mormugao	2. In the delta region
C. Visakhapatnam	3. On the riverside
D. Paradip	4. On the entrance of the estuary

- A. A-3 B-1 C-4 D-2
 B. A-3 B-4 C-1 D-2
 C. A-2 B-4 C-1 D-3
 D. A-2 B-1 C-4 D-3