

## **NDA General Ability Test Question Paper-NDA I 2017**

1. Which one of the following was a significant feature of the Quit India Movement?

- A. Women did not play an important role in the movement
- B. Nasik in Maharashtra was an important regional base during the movement
- C. It was marked by anti-zamindar violence
- D. It was marked by the emergence of parallel governments in different parts of India

2. Which of the following statements about the Chittagong group is NOT correct?

- A. Its membership included a large number of youth including Ganesh Ghosh, Lokenath Baul and Anant Singh
- B. Its leader Surya Sen had been a lawyer in Dhaka before joining the group
- C. Surya Sen and his group were closely associated with Congress work in Chittagong
- D. This group had prepared an action plan to occupy the armouries in Chittagong

3. Who among the following is one of the authors of the book "Philosophy of the Bomb?"

- A. Bhagat Singh
- B. Jawaharlal Nehru
- C. Surya Sen
- D. Yashpal

4. Which one of the following elements is used in pencil-lead?

- A. Zinc
- B. Lead
- C. Carbon (Graphite)
- D. Tin

5. The chemical name of Baking Soda is

- A.  $\text{Na}_2\text{CO}_3$
- B.  $\text{NaHCO}_3$

- C.  $\text{CaCO}_3$
- D.  $\text{NaOH}$

6. Radon is

- A. an inert gas
- B. an artificial fibre
- C. an explosive
- D. a metal

7. Why is it difficult to measure the coefficient of expansion of a liquid than solid?

- A. Liquids tend to evaporate at all temperatures
- B. Liquids conduct more heat
- C. Liquids expand too much when heated
- D. Their containers also expand when heated

8. Which one of the following statements is true for the relation  $F = G \frac{m_1 m_2}{r^2}$  ?

(All symbols have their usual meanings)

- A. The quantity  $G$  depends on the local value of  $g$ , acceleration due to gravity
- B. The quantity  $G$  is greatest at the surface of the earth
- C. The quantity  $G$  is used only when the earth is one of the two masses
- D. The quantity  $G$  is a universal constant

9. If the potential difference applied to an X-ray tube is doubled while keeping the separation between the filament and the target as same, what will happen to the cutoff wavelength?

- A. Will remain same
- B. Will be doubled
- C. Will be halved
- D. Will be four times of the original wavelength

10. A Kelvin thermometer and a Fahrenheit thermometer both give the same reading for a certain sample. What would be the corresponding reading in a Celsius thermometer?

- A. 574
- B. 301
- C. 273
- D. 232

11. Which one of the following is the correct relation between frequency  $f$  and angular frequency  $\omega$ ?

- A.  $f = \pi\omega$
- B.  $\omega = 2\pi f$
- C.  $f = 2\omega/\pi$
- D.  $f = 2\pi\omega$

12. Suppose a rod is given a negative charge by rubbing it with wool. Which one of the following statements is correct in this case?

- A. The positive charges are transferred from rod to wool
- B. The positive charges are transferred from wool to rod
- C. The negative charges are transferred from rod to wool
- D. The negative charges are transferred from wool to rod

13. Which one of the following States does NOT have the Headquarters of any Railway Zone?

- A. Jharkhand
- B. Chhattisgarh
- C. Odisha
- D. Bihar

14. Which of the following regions is/are NOT known for the Cotton-Textile industry?

- 1) Mumbai – Pune region
- 2) Madurai – Coimbatore region
- 3) Dhanbad – Jamshedpur region
- 4) Indore – Ujjain region

Select the correct answer using the code given below:

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

15. Which of the following are the major coral reef areas of India?

- 1) Gulf of Kachchh
- 2) Gulf of Mannar
- 3) Lakshadweep
- 4) Andaman and Nicobar Islands

Select the correct answer using the code given below:

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

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

List-I (Place) - List-II (Mineral)

- A) Lakwa - 1) Copper
  - B) Malanjkhand - 2) Petroleum
  - C) Kalakot - 3) Zinc
  - D) Zawar - 4) Coal
- A. 4 - 3 - 2 - 1
  - B. 4 - 2 - 3 - 1
  - C. 1 - 2 - 3 - 4
  - D. 1 - 3 - 2 - 4

17. Which one of the following was NOT a feature of the Subsidiary Alliance of Lord Wellesley?

- A. The British were responsible for protecting the ally from any external threats

- B. All internal threats were to be handled by the ally alone, with no help from the British
- C. The ally was to provide resources for maintaining a British armed contingent stationed in its territory
- D. The ally could not enter into any agreement with other rules without the permission of the British

18. Which one of the following was NOT a cause of the Revolt of 1857?

- A. The rumour that the British had mixed the bone dust of cows and pigs into the flour being sold in the market
- B. The prophecy that British rule would come to an end on the centenary of the Battle of Plassey on 23<sup>rd</sup> June 1857
- C. Popular discontent with British rule
- D. The prophecy that end of British rule would lead to the end of the Kali Yuga and the return of Ram Rajya

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

List-I (Amendment to the Constitution of India)

- A) 52<sup>nd</sup> Amendment Act, 1985
- B) 73<sup>rd</sup> Amendment Act, 1992
- C) 61<sup>st</sup> Amendment Act, 1988
- D) 86<sup>th</sup> Amendment Act, 2006

List-II (Subject)

- 1) Reduction of voting age from 21 to 18
- 2) Right to Education
- 3) Panchayati Raj
- 4) Disqualification on grounds of defection

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

20. Which one of the following statements regarding King Krishnadevaraya is NOT correct?

- A. He was a great scholar of Telugu and Sanskrit
- B. Foreign travellers Domingo Paes visited his court
- C. Barbosa praised him for the great justice and equity prevailing in his empire
- D. He wrote his magnum opus Amuktamalyada in Sanskrit

###COMMON###21###21###**Direction:** Each of the following items in this section consists of a sentence the parts of which have been jumbled. These parts have been labeled P, Q, R and S. Given below each sentence are four sequences namely (a), (b), (c) and (d). You are required to re-arrange the jumbled parts of the sentence and mark your response accordingly. ###DONE###

21. When I was a student (P)/ I learnt swimming at the age of 15 (Q)/ of class X (R)/ in a government school (S)

The proper sequence should be

- A. P Q R S
- B. P R Q S
- C. Q P R S
- D. Q S P R

22. They (P)/ should implant (Q)/ in the minds of young children (R)/ sound principles (S)

The proper sequence should be

- A. P Q R S
- B. P Q S R
- C. R P Q S
- D. P R Q S

23. She has (P)/ more (Q)/ intelligence (R)/ than we suspected her to possess (S)

The proper sequence should be

- A. P Q S R
- B. P R Q S
- C. P S Q R

D. P Q R S

24. He (P)/ almost (Q)/ planned the entire strategy of operation (R)/ single-handed (S)

The proper sequence should be

- A. R S P Q
- B. P R Q S
- C. S Q R P
- D. Q P S R

25. Sports cars (P)/ appeal (Q)/ to some motorists only (R)/ with noisy exhausts (S)

The proper sequence should be

- A. R Q S P
- B. P S Q R
- C. R S P Q
- D. P Q S R

26. We advised (P)/ the hijackers to surrender (Q)/ to the police (R)/ themselves (S)

The proper sequence should be

- A. P Q R S
- B. P R Q S
- C. P Q S R
- D. R P Q S

27. Do you think (P)/ will (Q)/ this soap (R)/ Shrink woolen clothes? (S)

The proper sequence should be

- A. P Q R S
- B. P R Q S
- C. Q R P S
- D. Q P R S

28. He (P)/ shuffled the papers (Q)/ In a drawer (R)/ together (S)

The proper sequence should be

- A. P Q S R
- B. P Q R S
- C. P S Q R
- D. R S P Q

29.

Farm workers (P)/ spend (Q)/ outdoors (R)/ Most of their time (S)

The proper sequence should be

- A. P Q R S
- B. P R Q S
- C. P Q S R
- D. R P Q S

###COMMON###30###30###**Direction:** In this section, you have two short passages. Read the passages and answer the items that follow. You are required to select your answers based on the contents of the passage and opinion of the author only.

I was beginning to tire a little now. I had been cutting steps continuously for two hours, and Tenzing, too, was moving very slowly. As I chipped steps around still another corner, I wondered rather dully just how long we could keep it up. Our original zest had now quite gone and it was turning more into a grim struggle. I then realized that the ridge ahead, instead of still monotonously rising, now dropped sharply away, and far below I could see the North Col and Rongbuk glacier. I looked to see a narrow ridge running up to a snowy summit. A few more whacks of the ice-axe in the firm snow and we stood on top.

###DONE###

30. 'It was turning more into a grim struggle' would mean

- A. that after the long exertion he was feeling so weak that any further climbing meant a hard struggle with the force of nature
- B. that Tenzing was making the task more difficult
- C. that strong cold wind was pushing him down from above and that he had to struggle with the forces of nature
- D. that he was in a mood to give up ultimately

31. 'I had been cutting steps continuously for two hours' suggests that

- A. the climber was unskilled in the art of making steps
- B. he had to cut the steps out of snow before climbing up which was necessarily a slow process
- C. the slowness was caused by the fact that as soon as he cut the steps they were again covered with snow
- D. he had to work suspended from a ledge

32.

Which of the following is the most appropriate description of the area in which the narrator had been moving?

- A. A steep rocky slope
- B. A peak with a flight of steps
- C. A high peak covered with snow
- D. A long ridge

###COMMON###33###33### **Direction:** In this section, you have two short passages. Read the passages and answer the items that follow. You are required to select your answers based on the contents of the passage and opinion of the author only.

We had just passed Tenali, where I roused myself in order to hear the name of the station. As I was falling asleep again, a violent jolt shot me into the arms of somebody in the seat opposite. The engine with one wheel broken was lying across the track and beside it was the luggage van, likewise, derailed. Groaning, wheezing, gasping, sputtering in its death agony, the engine was like a fallen horse which, snorting, trembling in every limb, its flanks heaving, its chest laboring, seems incapable of making the smallest effort to struggle on to its legs again.

###DONE###

33. The engine is compared to a fallen horse because

- A. it was groaning like a horse
- B. it was lying across the track
- C. it could make no effort to stand upright
- D. it had a broken wheel

34. The engine stopped because

- A. the driver had stopped it
- B. one of the wheels was broken
- C. there was a halting place
- D. there was no fuel

35.

The author had roused himself as he wanted to

- A. get off
- B. meet someone
- C. know the name of the station
- D. keep himself awake

###COMMON###36###36### **Direction:** Each item in this section has a sentence with three underlined parts labeled (a), (b) and (c). Read each sentence to find out whether there is any error in and underlined part and indicate your response in the Answer Sheet against the corresponding letter i.e., (a) or (b) or (c). If you find no error, your response should be indicated as (d). ###DONE###

36. Far from being appreciated, (a)/ his conduct was discussed (b)/and sharply commented (c)/ No error.(d)

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

37. He goes to his office (a)/ by bicycle (b)/ every day (c)/ No error (d).

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

38. Never (a)/ I have (b)/ seen such a town (c)/ No error (d).

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

39. As soon as (a)/ the train arrived (b)/ the passengers entered the compartments (c)/ No error (d)

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

40.

I can fly (a)/ if will be (b)/ a bird (c)/ No error (d)

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

###COMMON###41###41###**Direction:** In this section, look at the underlined part of each sentence. Below each sentence are given three possible substitutions for the underlined part. If one of them (a), (b) or (c) is better than the underlined part, indicate your response on the Answer Sheet against the corresponding letter (a), (b) or (c). If none of the substitutions improves the sentence, indicate (d) as your response on the Answer Sheet. Thus a 'No improvement' response will be signified by the letter (d). ###DONE###

41. I would like to avail a fifteen days' holiday this summer.

- A. to avail of
- B. to avail myself of
- C. to avail myself
- D. No improvement

42. Last evening I went to the optician and bought spectacles.

- A. a spectacle
- B. two spectacles
- C. a pair of spectacles
- D. No improvement

43. She cut a sad figure in her first performance on the stage.

- A. made a sorry figure
- B. cut a sorry face
- C. cut a sorry figure
- D. No improvement

44. When we saw him last, he ran to catch a bus.

- A. has run
- B. had run
- C. was running
- D. No improvement

45. Mr. and Mrs. Rao stay in their home every evening.

- A. at home
- B. inside home
- C. within their home
- D. No improvement

46. If I don't know the meaning of a word, I look it after in the dictionary.

- A. look it out
- B. look it for
- C. look it up
- D. No improvement

47. He ought not to tell me your secret, but he did.

- A. telling
- B. have told
- C. having told
- D. No improvement

48. They kept the idea secretly.

- A. secretive
- B. secret
- C. secretly
- D. No improvement

49. He preferred death rather than imprisonment.

- A. for
- B. to
- C. than
- D. No improvement

50.

I disliked him not so much for his meanness but for his dishonesty.

- A. as for
- B. but because
- C. but due to
- D. No improvement

###COMMON###51###51###**Direction:** In this section, each item consists of a sentence with a word underlined and is followed by four words of groups of words. Select the word of group of words that is most similar in meaning to the underlined word and indicate your response in the Answer Sheet accordingly. ###DONE###

51. His candid opinions have won him many friends.

- A. kind
- B. courteous
- C. generous
- D. frank

52. Businessmen who lack acumen cannot be expected to be very successful.

- A. fairness
- B. sharpness
- C. boldness
- D. righteousness

53. The police fired indiscriminately at the crowd, killing many innocent women and children.

- A. continuously
- B. without distinguishing
- C. foolishly
- D. rapidly

54. Bad tendencies are to be countered by good ones until all that is evil disappears.

- A. opposed
- B. balanced
- C. reduced
- D. bypassed

55.

It is unwise to sever diplomatic relations with a neighbouring country over small matters.

- A. engage
- B. estrange
- C. cut off
- D. twist

###COMMON###56###56###**Direction:** In this section, each item consists of a sentence with a word underlined and is followed by four words. Select the word that is most opposite in meaning to the underlined word and indicate your response in the Answer Sheet accordingly. ###DONE###

56. The witness corroborated word for word the statement of the victim.

- A. accepted
- B. confirmed
- C. denied
- D. repeated

57. The birth of his child decidedly proved to be an auspicious event in his life.

- A. precious
- B. ominous
- C. useless
- D. unforgettable

58. Unlike his brother, he is affable.

- A. Reserved
- B. gullible

- C. irritable
- D. lovable

59. It was indeed arduous to cross streets in New York.

- A. pleasant
- B. effortless
- C. interesting
- D. risky

60.

My first lecture in the classroom was a fiasco.

- A. success
- B. joy
- C. fun
- D. disaster

###COMMON###61###61###**Direction:** Each of the following items in this section has a sentence with a blank 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###

61. Please don't give me any more, I have had \_\_\_\_\_.

- A. few
- B. too little
- C. little
- D. enough

62. The dictator of that country was a monster of wickedness, insatiable in his \_\_\_\_\_ for blood and plunder.

- A. idea
- B. vision
- C. lust
- D. intention

63. The ambitious nobleman \_\_\_\_\_ to marry the king's daughter.

- A. transpired
- B. perspired
- C. aspired
- D. expired

64. Although they took every precaution, they could not \_\_\_\_\_ the accident.

- A. defer
- B. allow
- C. avoid
- D. block

65. I always felt hungry \_\_\_\_\_ I heard the dinner bell.

- A. as much as
- B. as well as
- C. as soon as
- D. as close as

66. You have never \_\_\_\_\_ me about your experiences in America.

- A. said
- B. told
- C. explained
- D. spoken

67. The flow of blood was so \_\_\_\_\_ that the patient died.

- A. intense
- B. adequate
- C. profuse
- D. extensive

68. He \_\_\_\_\_ to listen to my arguments and walked away.

- A. denied
- B. disliked
- C. prevented
- D. refused

69. When I met John yesterday, it was the first time I \_\_\_\_\_ him since Christmas.

- A. saw
- B. have seen
- C. had seen
- D. have been seeing

70.

I \_\_\_\_\_ you to be at the party this evening.

- A. look forward to
- B. hope
- C. expect
- D. think

71. In its emphasis on enhancing human capabilities, which one among the following does NOT figure in the Twelfth Five-Year Plan?

- A. Life and longevity
- B. Education
- C. Delivery of Public Service
- D. Skill development

72. By fulfilling which of the following conditions can a political party claim the status of a National Party?

- 1) It secures at least six per cent (6%) of the valid votes polled in any four or more states, at a general election to the House of the People or, to the State Legislative Assembly
- 2) It wins at least four seats in the House of the People from any State or States or wins at least two per cent (2%) seats in the House of the People (i.e., 11 seats in the existing House having 543 members), and these members are elected from at least three different States
- 3) The party in question has got recognition as a state party in at least two states
- 4) It must have its headquarters in New Delhi

Select the correct answer using the code given below:

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

73. Surge pricing takes place when a service provider

- A. raises the price of its product or service as demand outstrips supply
- B. follows preset prices immune to demand and supply dynamics
- C. fixes a minimum price for its services
- D. fixes an average price on the basis of transactions carried over a day

74. The World Humanitarian Day is being observed every year on which date?

- A. 24 October
- B. 19 August
- C. 10 December
- D. 8 March

75. Which one among the following states of India has recently proposed to frame the first Internal Security Act to deal with the challenges of terrorism, insurgency, communalism and caste violence?

- A. Maharashtra
- B. Gujarat
- C. Uttar Pradesh
- D. Chhattisgarh

76. Which one of the following was the venue of 2<sup>nd</sup> BRICS Youth Summit of the Ministers, Officials and Youth Delegations?

- A. New Delhi
- B. Mumbai
- C. Shillong
- D. Guwahati

77. Which of the following cricket teams was defeated by India to lift Women's Twenty 20 Asia Cup 2016?

- A. Bangladesh
- B. Sri Lanka

- C. Pakistan
- D. Afghanistan

78. Who among the following personalities is NOT a Governor of any Indian State?

- A. Najma Heptulla
- B. Ram Nath Kovind
- C. Acharya Dev Vrat
- D. Arvind Subramaniam

79. Dr. Urjit Patel, who has been appointed recently as Governor of Reserve Bank of India, was holding which position immediately prior to this appointment?

- A. Chief Economist, IMF
- B. Deputy Governor, Reserve Bank of India
- C. Chief Economic Advisor to the Government of India
- D. Professor of Economics at Harvard University

80. Consider the following statements pertaining to Coffee plantation in India :

- 1) Need warm and moist climate with a spell of dry weather during the ripening period
- 2) Rolling fields having good drainage
- 3) Strong sunshine over hilly slopes exceeding temperature 35°C
- 4) Karnataka is the leading producer in India

Which of the statements given above are correct?

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

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

**List-I (Industry)**

- A) Petrochemical
- B) Aircraft
- C) Machine tools
- D) Cotton textiles

**List-II (Place)**

- 1) Coimbatore
- 2) Pinjore
- 3) Bengaluru
- 4) Bongaigaon

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

82. Headquarters of the World Meteorological Organization is located in

- A. Washington
- B. Geneva
- C. Moscow
- D. London

83. According to the Census 2011, the density of population in which one among the following States is the lowest?

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

84. Red blood cells (RBCs) have

- A. no nucleus, no mitochondria and no endoplasmic reticulum
- B. nucleus, mitochondria and endoplasmic reticulum
- C. nucleus, mitochondria but no endoplasmic reticulum
- D. no mitochondria but endoplasmic reticulum is present

85. Kidney secretes an enzyme, which changes plasma protein angiotensinogen into angiotensin. The enzyme is

- A. Renin
- B. Nitrogenase
- C. Hydrolase
- D. Mono-oxygenase

86. Dengue virus causes high fever, rashes and reduces the number of a particular type of blood cells. Those blood cells are

- A. Monocytes
- B. Platelets
- C. Eosinophils
- D. Neutrophils

87. Which one of the following agencies enforces the laws on food security in India?

- A. FDA
- B. WHO
- C. FSSAI
- D. FAO

88. Sleeping sickness is a parasitic disease of humans and other animals. It is caused by

- A. Histomonas
- B. Trypanosoma
- C. Angomonae
- D. Naegleria

89. Cell wall of any fungus is different from plants in having

- A. Cellulose
- B. Chitin
- C. Cholesterol
- D. Glycogen

90. Glass is a

- A. liquid
- B. colloid
- C. non-crystalline amorphous solid
- D. crystalline solid

91. Rutherford's alpha-particle scattering experiment was responsible for the discovery of

- A. Electron
- B. Proton
- C. Nucleus
- D. Helium

92. Which one of the following elements is least reactive with water?

- A. Lithium
- B. Sodium
- C. Potassium
- D. Cesium

93. Stung by hairs of nettle leaves causes burning pain. This is due to the injection of

- A. Acetic acid
- B. Methanoic acid
- C. Sulphuric acid
- D. Hydrochloric acid

94. Temporary hardness in water is due to which one of the following of Calcium and Magnesium?

- A. Hydrogencarbonates
- B. Carbonates
- C. Chlorides
- D. Sulphates

95. Molecules of which of the following has cage like structure?

- 1) Diamond
- 2) Graphite

### 3) Fullerenes

Select the correct answer using the code given below:

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

96. The speed of a body that has Mach number more than 1 is

- A. Supersonic
- B. Subsonic
- C. 300m/s
- D. about 10 m/s

97. The speed of a car travelling on a straight road is listed below at successive intervals of 1 s:

Time (s) 0 1 2 3 4

Speed (m/s) 0 2 4 6 8

Which of the following is/are correct?

The car travels

- 1) with a uniform acceleration of  $2 \text{ m/s}^2$ .
- 2) 16 m in 4s.
- 3) with an average speed of 4 m/s.

Select the correct answer using the code given below:

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

98. At which place Earth's magnetic field becomes horizontal?

- A. Magnetic meridian
- B. Magnetic equator
- C. Geographical pole

D. Tropic of Cancer

99. An optical illusion which occurs mainly in deserts during hot summer is based on the principle of

- A. Reflection
- B. Interference
- C. Dispersion
- D. Total internal reflection

100. Which one of the following devices changes low voltage alternating current to high voltage alternating current and vice versa?

- A. Generator
- B. Motor
- C. Transformer
- D. Vibrator

101. Which one of the following physical quantities does NOT affect the resistance of a cylindrical resistor?

- A. The current through it
- B. Its length
- C. The resistivity of the material used in the resistor
- D. The area of cross-section of the cylinder

102. Which one of the following statements is correct with regard to the material of electrical insulators?

- A. They contain no electrons
- B. Electrons do not flow easily through them
- C. They are crystals
- D. They have more number of electrons than the protons on their surface

103. Which one of the following physical quantity has the same unit as that of pressure?

- A. Angular momentum
- B. Stress
- C. Strain
- D. Work

104. The time period of a simple pendulum made using a thin copper wire of length  $L$  is  $T$ . Suppose the temperature of the room in which this simple pendulum is placed increases by  $30^{\circ}\text{C}$ , what will be the effect on the time period of the pendulum?

- A.  $T$  will increase slightly
- B.  $T$  will remain the same
- C.  $T$  will decrease slightly
- D.  $T$  will become more than 2 times

105. The radii of curvature of the faces of a double convex lens are 10 cm and 20 cm. The refractive index of the glass is 1.5. What is the power of this lens (in units of dioptre)?

- A. +7.5 D
- B. -7.5 D
- C. +2.5 D
- D. +5.0 D

106. Which one among the following countries is the largest trading partner of India in external trade for the year 2015-2016?

- A. United States of America
- B. United Kingdom
- C. United Arab Emirates
- D. China

107. The Headquarters of Eastern Railway Zone of Indian Railway is located at

- A. Bhubaneswar
- B. Kolkata
- C. Hajipur
- D. Guwahati

108. Which one of the following Himalayan rivers does NOT originate from across the Himalayas?

- A. Indus
- B. Satluj
- C. Ganga
- D. Brahmaputra

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

**List I (Type of Climate)**

- A. Monsoon with Short Dry Season (Amw)
- B. Cold Humid Winter with Short Summer (Dfc)
- C. Monsoon with Dry Winter (Cwg)
- D. Monsoon with Dry Summer (As)

**List II (State)**

- 1) Uttar Pradesh and Bihar
- 2) Tamil Nadu Coast
- 3) Arunachal Pradesh
- 4) Kerala and Karnataka Coast

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

110. Which of the following are correct with regard to Indian Monsoonal Rainfall?

- 1) Largely governed by the topographical features
- 2) Regional and seasonal variation in the distribution of rainfall
- 3) Heavy downpour resulting in considerable runoff
- 4) Beginning and end of rain is regular and on time

Select the correct answer using the code given below:

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

111. Which one among the following is the correct order of tiger reserves situated from North to South in India?

- A. Corbett – Simlipal – Sariska – Periyar
- B. Periyar – Sariska – Simlipal – Corbett
- C. Corbett – Sariska – Simlipal – Periyar
- D. Periyar – Simlipal – Sariska – Corbett

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

**List I (Mineral)**

- A) Manganese
- B) Gypsum
- C) Limestone
- D) Magnesite

**List II (Leading State)**

- 1) Uttarakhand
- 2) Karnataka
- 3) Rajasthan
- 4) Odisha

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

113. The colorful part of the Sunflower or Marigold plant is

- A. Flower
- B. Inflorescence
- C. Fruit
- D. Seed

114. Sugarcane is one of the important cash crops in India. It is grown to obtain

- A. Starch
- B. Glucose
- C. Fructose
- D. Sucrose

115. Which one of the following statements is NOT correct?

- A. All proteins are enzymes
- B. Most enzymes are proteins
- C. All fats are energy-rich compounds
- D. Glucose is a common carbohydrate

116. Colour vision in human eyes is the function of photoreceptor cells named

- A. Rods
- B. Cones
- C. Blind spot
- D. Fovca

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

**List I (Noble gas)**

- A. Argon
- B. Neon
- C. Krypton
- D. Xenon

**List II (Use)**

- 1) In lights for advertising display
- 2) Airport landing lights and in light houses
- 3) Light in photographer's flash gun
- 4) In tungsten filament to last longer

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

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

118. The valency of an element depends upon the

- A. total number of Protons in an atom
- B. Mass Number of an atom
- C. total number of Neutrons in an atom
- D. total number of Electrons in the outermost shell of an atom

119. 20 g of common salt is dissolved in 180 g of water. What is the mass percentage of the salt in the solution?

- A. 5%
- B. 9%
- C. 10%
- D. 15%

120. Which one of the following elements corrodes rapidly?

- A. Aluminium
- B. Iron
- C. Zinc
- D. Silver

121. Which one of the following elements forms highest number of compounds?

- A. Oxygen
- B. Hydrogen
- C. Chlorine
- D. Carbon

122. A homogeneous mixture contains two liquids. How are they separated?

- A. By filtration
- B. By evaporation
- C. By distillation
- D. By condensation

123. Which one of the following statements is correct about the magnification of an optical microscope?

- A. Magnification increases with the increase in focal length of eyepiece
- B. Magnification increases with the increase in focal length of objective
- C. Magnification does not depend upon the focal length of eyepiece
- D. Magnification decreases with the increase in focal length of eyepiece

124. In a solenoid, the current flowing through the wire is  $I$  and number of turns per unit length is  $n$ . This gives a magnetic field  $B$  inside the solenoid. If number of turn per unit length is increased to  $2n$ , what will be the value of magnetic field in the solenoid?

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

125. A circular coil of single turn has a resistance of  $20\ \Omega$ . Which one of the following between the ends of any diameter of the coil?

- A.  $5\ \Omega$
- B.  $10\ \Omega$
- C.  $20\ \Omega$
- D.  $40\ \Omega$

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

**List I (Disease)**

- A) Hypermetropia
- B) Presbyopia
- C) Myopia
- D) Cataract

**List II (Remedy)**

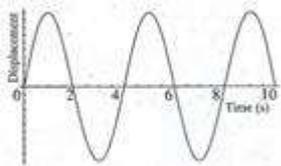
- 1) Concave lens
- 2) Bifocal lens

3) Surgery

4) Convex lens

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

127. The following figure shows displacement versus time curve for a particle executing simple harmonic motion:



Which one of the following statements is correct?

- A. Phase of the oscillating particle is same at  $t = 1$  s and  $t = 3$  s
- B. Phase of the oscillating particle is same at  $t = 2$  s and  $t = 8$  s
- C. Phase of the oscillating particle is same at  $t = 3$  s and  $t = 7$  s
- D. Phase of the oscillating particle is same at  $t = 4$  s and  $t = 10$  s

128. The amount of heat required to change a liquid to gaseous without any change in temperature is known as

- A. specific heat capacity
- B. mechanical equivalent of heat
- C. latent heat of vaporization
- D. quenching

129. Which one of the following statements is NOT correct?

- A. In the conduction mode of transference of heat, the molecules of solid pass from one molecule to another without moving from their positions
- B. The amount of heat required to raise the temperature of a substance is called its specific heat capacity
- C. The process of heat transfer in liquids and gases is through convection mode
- D. The process of heat transfer from a body at higher temperature to a body at lower temperature without heating the space between them is known as radiation

130. Which one of the following is NOT a target of the 12<sup>th</sup> Five-Year Plan?

- A. Real GDP Growth Rate of 8 per cent
- B. Agriculture Growth Rate of 5 per cent
- C. Manufacturing Growth Rate of 10 per cent
- D. Increase in green cover by 1 million hectare every year during the Plan period

131. Which one of the following is NOT an objective of the National Civil Aviation Policy 2016?

- A. Establish an integrated ecosystem which will lead to significant growth of the civil aviation sector
- B. To promote tourism, increase employment and lead to a balanced regional growth
- C. Ensure safety, security, and sustainability of all sectors through the use of technology
- D. Enhance regional connectivity through fiscal support and infrastructure development

132. Arrange the following countries in ascending order on the basis of the total medals earned by them in Rio Olympic 2016:

- 1) United States
- 2) China
- 3) Great Britain
- 4) Russia

Select the correct answer using the code given below:

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

133. Which one of the following is NOT one of the objectives of Act East Policy?

- A. To promote economic cooperation, cultural ties and develop a strategic relationship with countries in the Asia-Pacific region
- B. To promote peace and amity with the neighboring countries of Asia

- C. To place emphasis on India-ASEAN cooperation in India's domestic agenda
- D. To provide enhanced connectivity to the North East of India

134. Which one of the following cities hosted the 3<sup>rd</sup> World Trauma Congress recently?

- A. New Delhi
- B. Dacca
- C. Singapore
- D. Bangkok

135. Which one of the following statements about Fatehpur Sikri is NOT correct?

- A. It was located on the direct road to Ajmer
- B. Akbar commissioned the building of a marble tomb for Sheikh Salim Chisti next to the Friday mosque at Fatehpur Sikri
- C. The arched gateway or Bulund Darwaza was meant to remind visitors of the Mughal victory in Gujarat
- D. In 1585, the capital of the Mughal emperor shifted from Fatehpur Sikri to Delhi

136. Who among the following was the author of the Badshah Nama?

- A. Abdul Hamid Lahori
- B. Abul Fazl
- C. Shah Jahan
- D. Sadullah Khan

137. Consider the following Indian States:

- 1) Bihar
- 2) Rajasthan
- 3) Jammu and Kashmir
- 4) Haryana

Which one of the following is the correct ascending order of the above States on the basis of the percentage of the State's population to the total population of India (based on census 2011)?

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

138. A positive charge  $+q$  is placed at the centre of a hollow metallic sphere of inner radius  $a$  and outer radius  $b$ . The electric field at a distance  $r$  from the centre is denoted by  $E$ . In this regard, which one of the following statements is correct?

- A.  $E = 0$  for  $a < r < b$
- B.  $E = 0$  for  $r < a$
- C.  $E = q/4\pi\epsilon_0 r$  for  $a < r < b$
- D.  $E = q/4\pi\epsilon_0 a$  for  $r < a$

139. If the absolute refractive indices of glass and water are  $3/2$  and  $4/3$  respectively, what will be the ratio of the velocity of light in glass and water?

- A. 3 : 4
- B. 4 : 3
- C. 8 : 7
- D. 8 : 9

140. Which one of the following pairs of Tribe and State is NOT correctly matched?

- A. Tharu : Madhya Pradesh
- B. Adi : Arunachal Pradesh
- C. Irula : Kerala
- D. Shaharia : Rajasthan

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

List I - List II

(Mineral deposit) - (State)

- A) Gypsum - 1) Odisha
- B) Graphite - 2) Gujarat

C) Fluorspar - 3) Arunachal Pradesh

D) Nickel - 4) Rajasthan

A. 1 3 2 4

B. 1 2 3 4

C. 4 3 2 1

D. 4 2 3 1

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

List I (Classification of resources)

A) Basic inexhaustible resource

B) Conventional non-renewable resource

C) Non-conventional renewable resource

D) Non-conventional non-renewable resource

List-II (Example)

1) Hydel power

2) Coal

3) Solar Energy

4) Natural Gas

A. 3 2 1 4

B. 3 1 2 4

C. 4 1 2 3

D. 4 2 1 3

143. Which one of the following sections of the Golden Quadrilateral Highway in India is the longest in terms of route distance?

A. Delhi – Kolkata

B. Kolkata – Chennai

C. Chennai – Mumbai

D. Mumbai - Delhi

144. Name the calligrapher in Akbar's court who was honoured with the title "Zarin Kalam" or Golden Pen -

- A. Abul Fazi
- B. Tansen
- C. Muhammad Husayn
- D. Muhammad Kasim

145. Which one of the following is a feature of thought and philosophy of the Kandukuri Viresalingam?

- A. He believed that science and morality were unconnected to truth
- B. He believed in universal education
- C. He believed that language had no role in inculcating morality in students
- D. He did not attempt to build a national consciousness on a cultural base

146. Which one of the following Princely States did NOT support the Congress during the course of the Civil Disobedience Movement?

- A. Bhavnagar
- B. Mysore
- C. Junagadh
- D. Kathiawar

147. Who launched the Bardoli Satyagraha on 4<sup>th</sup> February 1928?

- A. Mahatma Gandhi
- B. Vallabhbhai Patel
- C. Rajendra Prasad
- D. Kalyanji Mehta

148. Which colonial administrator made the following declaration about the partition of Bengal in 1904 - "Bengal united is a power. Bengal divided will pull in different ways. That is perfectly true and one of the merits of the Scheme"

- A. Lord Curzon
- B. H. H. Risley
- C. Lord Minto
- D. Sir Lancelot Hare

149. Which one of the following was NOT a feature of railways in colonial India?

- A. The main purpose of the setting up of railways in India was to serve the interest of the empire
- B. British capital investments were invited with 15% guaranteed interest to be paid if necessary from Indian revenues
- C. The construction work disturbed ecology
- D. The construction of the railways was planned in such a way that it connected the internal markets with the ports but provided no interconnection between internal market cities.

150. Which one of the following characteristics does NOT describe the Khilafat Movement?

- A. Mahatma Gandhi sought to link it to the Non-Cooperation movement
- B. It was not supported by the Congress
- C. It demanded that the Turkish Sultan must retain control over Muslim sacred spaces in the erstwhile Ottoman empire
- D. It was led by Muhammad Ali and Shaukat Ali

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