

NDA 2020 (I & II) General Ability Test Question Paper

148 questions

This PDF is the question paper only. It does not contain the answer key or explanations.

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Q1. He nodded absently throughout the meeting.

- (a) capably
- (b) alertly
- (c) agitatedly
- (d) dreamily

Q2. I fully believe that the cornerstone of good policy is an electorate that is educated on the national issues.

- (a) cerebral
- (b) enlightened
- (c) ignorant
- (d) erudite

Q3. For important medical decisions, even finding a doctor you trust is not enough.

- (a) significant
- (b) trivial
- (c) basic
- (d) probable

Q4. Planets move in their orbits.

- (a) push
- (b) rotate
- (c) stall
- (d) flow

Q5. Temperature is a measure of internal energy of an object and is frequently expressed by physicists in units of Kelvin.

- (a) found
- (b) told
- (c) distributed
- (d) concealed

Q6. People argue about why Venus is so much warmer than the Earth.

- (a) friendlier
- (b) colder
- (c) wilder
- (d) heavier

Q7. Scientists are concerned whether the oceans and land biosphere will take up as much carbon in the future as they presently do.

- (a) worried
- (b) indifferent
- (c) curious
- (d) puzzled

Q8. The biggest debate among scientists today is about cloud feedback.

- (a) contend
- (b) moot
- (c) wrangle
- (d) agreement

Q9. The Earth's climate sensitivity is conventionally defined as the equilibrium temperature increase caused by a doubling of carbon dioxide.

- (a) imperviousness
- (b) willingness
- (c) responsiveness
- (d) closeness

Q10. The oceans carry a huge amount of heat from the tropics to the high latitudes.

- (a) significant
- (b) major
- (c) tiny
- (d) dormant

Q11. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) several years ago, (Q) course on climate change at Texas A&M University (R) Professor Andrew Dessler created an introductory (S) for freshmen and sophomores

- (a) P R Q S
- (b) Q R P S
- (c) S Q R P
- (d) P Q R S

Q12. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) I realize that solving the climate change problem (Q) than solving (R) will be much harder (S) the ozone depletion problem

- (a) P R Q S
- (b) Q R P S
- (c) S Q R P
- (d) P Q R S

Q13. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) although the temperature of this layer of the (Q) when directly comparing the satellite (R) measurements of temperature (S) atmosphere should generally track the surface temperature, we must be careful

- (a) P R Q S
- (b) P S Q R
- (c) S Q R P
- (d) P Q R S

Q14. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) the element heats up, (Q) eventually reaching high temperatures (R) glowing like a dark orange that radiates (S) the visible range,

- (a) P Q S R
- (b) Q P S R
- (c) S Q R P
- (d) P R S Q

Q15. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) two people argue about why Venus is so much warmer (Q) to the Sun, so it absorbs more solar energy. The second argues (R) that it's because Venus has a thick, greenhouse-gas rich atmosphere (S) than the Earth. The first argues that it's because Venus is closer

- (a) P S Q R
- (b) Q R P S

- (c) S Q R P
- (d) P Q R S

Q16. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) are now used by more than a thousand firms (Q) and are growing in popularity (R) in the United States and Europe (S) gain sharing-plans

- (a) P R Q S
- (b) Q R P S
- (c) P R S Q
- (d) S P R Q

Q17. The parts of the sentence below have been jumbled and labelled P, Q, R and S. Rearrange them to form a coherent sentence. (P) adversity without succumbing (Q) to the clouds of doubt and jealousy (R) between friends which is subjected to both prosperity and (S) the essay 'Of Friendship' by Francis Bacon celebrated the intimacy

- (a) P R Q S
- (b) Q R P S
- (c) S R P Q
- (d) P Q R S

Q18. friends without which the world is P make friends and a person wills to want true Q it is miserable solitude that compels a person to R nothing other than a place of wilderness S

- (a) P R Q S
- (b) Q R P S
- (c) R Q P S
- (d) P Q R S

Q19. takes the longest P that never started Q the job R to finish S

- (a) P R Q S
- (b) R Q P S
- (c) S Q R P
- (d) P Q R S

Q20. to what you can create P control, shift your energy Q instead of worrying about R what you cannot S

- (a) P R S Q
- (b) Q R S P
- (c) S Q R P
- (d) R S Q P

Q21. She got the divorce within no time.

- (a) detachment
- (b) breaking down
- (c) annulment
- (d) punishment

Q22. He was known for his gentle disposition.

- (a) harmful
- (b) amiable
- (c) cunning
- (d) adjusting

Q23. The harder we kick, the better the ball bounces back.

- (a) recoils
- (b) deflates
- (c) inflates
- (d) ascends

Q24. I plan and execute.

- (a) desire
- (b) debate
- (c) accomplish
- (d) discard

Q25. He listened to me with equanimity.

- (a) carelessly
- (b) excitedly
- (c) patiently
- (d) half-heartedly

Q26. The whole thing was a futile exercise.

- (a) costly
- (b) pointless
- (c) indecisive
- (d) successful

Q27. He was too cunning for her.

- (a) capable
- (b) fit
- (c) intelligent
- (d) dodgy

Q28. This decision is crucial for me.

- (a) momentous
- (b) natural
- (c) primitive
- (d) inept

Q29. The media went into a frenzy about the case.

- (a) silent
- (b) creative
- (c) berserk
- (d) wrong

Q30. He has been yearning to go home.

- (a) declining
- (b) demanding
- (c) begging
- (d) hankering

Q31. Simulations of the 20th century by climate models that exclude the observed increase ____ greenhouse gases fail to simulate the increase in temperature over the second half of the 20th century.

- (a) of
- (b) in
- (c) by
- (d) to

Q32. In extremely poor societies, children can be put to work ____ a young age and are therefore a source of income.

- (a) in
- (b) on
- (c) by
- (d) at

Q33. People who are averse ____ hard work, generally do not succeed in life.

- (a) to
- (b) about
- (c) at
- (d) on

Q34. I have known her ____ a long time.

- (a) since
- (b) for
- (c) at
- (d) before

Q35. I accepted the offer ____ certain conditions.

- (a) on
- (b) in
- (c) by
- (d) within

Q36. She is a woman ____ humble origin.

- (a) off
- (b) of
- (c) from
- (d) within

Q37. There is no cure ____ the common cold.

- (a) for
- (b) of
- (c) to
- (d) on

Q38. I ran ____ John yesterday, and it was a pleasant surprise.

- (a) by
- (b) off
- (c) beside
- (d) into

Q39. My grandmother enjoyed boating ____ the lovely lake.

- (a) in
- (b) on
- (c) beside
- (d) within

Q40. He visits the needy to relieve them ____ their sufferings and poverty.

- (a) from
- (b) off
- (c) of
- (d) on

Q41. This building comprises of six houses, three parking lots and one basement.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q42. I look forward to meet you.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q43. I cannot cope up with this pressure.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q44. I came to this place by walk.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q45. What is the time in your watch?

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q46. The price of my dress is higher than that of yours.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q47. My friend's daughter-in-laws have come.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q48. I prefer seafood than Mediterranean food.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q49. We were discussing about the issue.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q50. Dispose off the garbage from the shelves.

- (a) Error in the first underlined part
- (b) Error in the second underlined part
- (c) Error in the third underlined part
- (d) No error

Q51. New Zealand is considered part of which one of the following island groups?

- (a) Micronesia
- (b) Melanesia
- (c) Polynesia
- (d) Hawaii Island chain

Q52. Which of the following statements with regard to Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) is/are correct?

1. PMKSY was launched during 2015-16
2. The basic aim of PMKSY is to enhance physical access of water on farm
3. One of the main objectives of PMKSY is to achieve convergence of investments in irrigation at the field level

Select the correct answer using the code given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q53. According to Article 79 of the Constitution of India, which of the following is/are described as a part of Parliament of India?

1. The House of the People
2. The Council of States
3. The President of India

Select the correct answer using the code given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q54. The Five Year Plan was first launched in

- (a) China
- (b) USSR
- (c) India
- (d) Bhutan

Q55. The call for Garibi Hatao was incorporated in

- (a) Fourth Five Year Plan
- (b) Fifth Five Year Plan
- (c) Sixth Five Year Plan
- (d) Seventh Five Year Plan

Q56. Match List I with List II and select the correct answer using the code given below the lists:

List I (Major Objective)

- A. Faster and more inclusive growth
- B. Faster, more inclusive and sustainable growth
- C. Correction of disequilibrium caused by Second World War
- D. Attaining self-reliance

List II (Five Year Plan)

1. First
2. Fifth
3. Eleventh
4. Twelfth

Code:

- (a) 3, 1, 4, 2
- (b) 3, 4, 1, 2
- (c) 2, 4, 1, 3
- (d) 2, 1, 4, 3

Q57. Which one of the following Directive Principles was inserted by the Constitution (42nd Amendment) Act, 1976?

- (a) The State shall minimise inequalities in income
- (b) Equal justice and free legal aid
- (c) Promotion of co-operative societies
- (d) Provision for early childhood care

Q58. A common High Court for two or more states can be established by

- (a) a law passed by the Parliament
- (b) an order of the Supreme Court of India
- (c) an order of the President of India
- (d) an amendment to the Constitution of India

Q59. In the year 1928, a committee of Congress leaders drafted a Constitution for India. The Committee was headed by

- (a) Mahatma Gandhi
- (b) T. B. Saprú
- (c) Motilal Nehru
- (d) Jawaharlal Nehru

Q60. Which one of the following statements about Jaipal Singh is NOT correct?

- (a) He was a member of the Constituent Assembly
- (b) He founded the Adivasi Maha Sabha
- (c) He was the captain of the first Indian national hockey team
- (d) He campaigned for a separate state of Chhattisgarh

Q61. What is 'Tikki Mausi' in the context of Malnutrition?

- (a) A specially packaged food item
- (b) A mascot
- (c) Name of a scheme
- (d) Name given to the healthcare providers

Q62. Which one of the following was the theme of the World Tourism Day, 2019?

- (a) Sustainable tourism
- (b) Tourism and the digital transformation
- (c) Tourism: responding to the challenge of climate change
- (d) Tourism and jobs: a better future for all

Q63. Which one of the following countries has hosted the Army Exercise TSENTR, 2019?

- (a) Russia
- (b) China
- (c) Kazakhstan
- (d) Kyrgyzstan

Q64. Which one of the following countries is called the 'country of winds'?

- (a) India
- (b) China
- (c) Denmark
- (d) Germany

Q65. Which one of the following is the oldest scientific department of Government of India?

- (a) Department of Biotechnology
- (b) Survey of India
- (c) India Meteorological Department
- (d) DRDO

Q66. 'Naseem-Al-Bahr' is a bilateral naval exercise between India and

- (a) United Arab Emirates
- (b) Iran
- (c) Saudi Arabia
- (d) Oman

Q67. Koneru Humpy excels in which one of the following sports?

- (a) Boxing
- (b) Table Tennis
- (c) Chess
- (d) Billiards

Q68. Which one of the following was the official mascot of Khelo India Youth Games, 2020?

- (a) Vijaya
- (b) Yaya
- (c) Rongmon
- (d) Ammu

Q69. In January 2020, a passenger aircraft crashed in Iran soon after taking off from Tehran's Imam Khomeini airport killing about 170 people onboard. The airplane belongs to

- (a) Qatar Airways
- (b) Ukraine International Airlines
- (c) Singapore Airlines
- (d) Cathay Pacific

Q71. Chalk and marble are different forms of

- (a) Calcium hydrogen carbonate
- (b) Calcium carbonate
- (c) Calcium acetate
- (d) Sodium carbonate

Q72. The number of maximum electrons in N Shell is

- (a) 2
- (b) 8
- (c) 18
- (d) 32

Q73. Vinegar is also known as

- (a) ethanoic acid
- (b) nitric acid
- (c) sulphuric acid
- (d) tartaric acid

Q74. A liquid is kept in a glass beaker. Which one of the following statements is correct regarding the pressure exerted by the liquid column at the base of the beaker?

- (a) The pressure depends on the area of the base of the beaker
- (b) The pressure depends on the height of liquid column
- (c) The pressure does not depend on the density of the liquid
- (d) The pressure neither depends on the area of the base of the beaker nor on the height of liquid column

Q75. Which of the following statements is NOT correct regarding the travel of sound waves?

- (a) Sound waves can travel through water
- (b) Sound waves can travel through air
- (c) Sound waves can travel through steel
- (d) Sound waves can travel through vacuum

Q76. Deendayal Port is located at

- (a) Kerala
- (b) Gujarat
- (c) Maharashtra
- (d) Goa

Q77. Which one of the following cities is associated with Biosafety Protocol to the Convention on Biological Diversity (2000)?

- (a) Geneva
- (b) Nairobi
- (c) Cartagena
- (d) Rio de Janeiro

Q78. Krishna Raja Sagara Dam/Reservoir is developed on

- (a) river Krishna
- (b) river Tungabhadra
- (c) river Godavari
- (d) river Kavery

Q79. Which one of the following Indian states does NOT share international border with two or more countries?

- (a) Arunachal Pradesh
- (b) Assam
- (c) Mizoram
- (d) Tripura

Q80. According to Census of India, 2011, which one among the following is the least populated state in India?

- (a) Maharashtra
- (b) Madhya Pradesh
- (c) Odisha
- (d) Punjab

Q81. The speakers of major Indian languages belong to how many language families?

- (a) Two
- (b) Three
- (c) Four
- (d) Six

Q82. Where did Gandhiji initially forge the techniques of Satyagraha?

- (a) England
- (b) South Africa
- (c) North Africa
- (d) India

Q83. Who was the Viceroy of India at the time of Gandhiji's Dandi march?

- (a) Lord Irwin
- (b) Lord Linlithgow
- (c) Lord Reading
- (d) Lord Willingdon

Q84. Which one among the following American newsmagazines was highly sceptical of Gandhiji's Dandi march initially but within a week completely changed its opinion and saluted him as a Saint and Statesman?

- (a) Saturday Evening Post
- (b) Readers Digest
- (c) Time
- (d) Life

Q85. In which of the following years were passenger trains introduced in England?

- (a) 1823
- (b) 1825
- (c) 1848
- (d) 1861

Q86. The correct relation between the radius of curvature R and focal length f of a spherical mirror is

- (a) $R = f$
- (b) $R = 2f$
- (c) $R = 3f$
- (d) $R = 4f$

Q87. A lemon kept in water in a glass tumbler appears to be larger than its actual size. It is because of

- (a) reflection of light
- (b) scattering of light
- (c) refraction of light
- (d) polarization of light

Q88. Light enters the eye through a thin membrane called

- (a) retina
- (b) cornea
- (c) pupil
- (d) iris

Q89. Name the scientist who first used a glass prism to obtain the spectrum of sunlight

- (a) C. V. Raman
- (b) Lord Rayleigh
- (c) Isaac Newton
- (d) S. Chandrasekhar

Q90. The cost of energy to operate an industrial refrigerator that consumes 5 kW power working 10 hours per day for 30 days will be (Given that the charge per kWh of energy = ₹ 4)

- (a) ₹ 600
- (b) ₹ 6,000
- (c) ₹ 1,200
- (d) ₹ 1,500

Q91. Which one of the following statements regarding magnetic field is NOT correct ?

- (a) Magnetic field is a quantity that has direction and magnitude
- (b) Magnetic field lines are closed curves
- (c) Magnetic field lines are open curves
- (d) No two magnetic field lines are found to cross each other

Q92. Which one of the following statements is NOT correct ?

- (a) Buckminsterfullerene is an allotrope of carbon
- (b) Diamond is a good conductor of electricity
- (c) Graphite is a good conductor of electricity
- (d) In graphite, each carbon atom is linked to three other carbon atoms

Q93. How many covalent bonds are present in a Chloropropane molecule having molecular formula, C_3H_7Cl ?

- (a) 6
- (b) 8
- (c) 9
- (d) 10

Q94. Which one of the following is the most fundamental characteristic of an element ?

- (a) Melting point
- (b) Atomic number
- (c) Colour
- (d) Atomic weight

Q95. Neutrons were discovered by

- (a) James Chadwick
- (b) Ernest Rutherford
- (c) J. J. Thomson
- (d) John Dalton

Q96. Atomic mass of an element is equal to the sum of number of

- (a) electrons and protons only
- (b) protons and neutrons only
- (c) electrons and neutrons only
- (d) electrons, protons and neutrons

Q97. Which one of the following element's isotope is used in the treatment of cancer?

- (a) Uranium
- (b) Cobalt
- (c) Sodium
- (d) Iodine

Q98. Which one of the following cell organelles may play a role in expelling excess water and wastes in case of unicellular organisms?

- (a) Lysosome
- (b) Vacuole
- (c) Golgi body
- (d) Endoplasmic reticulum

Q99. Which one of the following terms describes the practice of growing two or more crops simultaneously on the same piece of land?

- (a) Crop rotation
- (b) Mixed cropping
- (c) Intercropping
- (d) Mixed farming

Q100. Which one of the following statements is correct about effects of antibiotics on viruses?

- (a) Viruses are "non-living" entities but it can interact with antibiotics
- (b) Taking antibiotics cures viral infections
- (c) Viruses do not possess metabolic pathways on which antibiotics can function, whereas bacteria have such pathways
- (d) Viruses are resistant to antibiotics

Q101. The Panama Canal opened in 1914, links

- (a) Red Sea and Mediterranean Sea
- (b) Atlantic Ocean and Pacific Ocean
- (c) Indian Ocean and Pacific Ocean
- (d) Adriatic Sea and Black Sea

Q102. The United Nations Charter was signed by 51 original members of the United Nations in 1945 at the

- (a) Hague Conference
- (b) London Conference
- (c) San Francisco Conference
- (d) Berlin Conference

Q103. Land Revenue Records maintained in India have categorized land-use into

- (a) 6 categories
- (b) 9 categories
- (c) 15 categories
- (d) 21 categories

Q104. Dry land farming in India is largely confined to areas with rainfall less than

- (a) 100 cm
- (b) 85 cm
- (c) 80 cm
- (d) 75 cm

Q105. For an area to be excluded from the drought-prone category, what percentage of its gross cropped area should be under irrigation?

- (a) 10 per cent or more
- (b) 20 per cent or more
- (c) 25 per cent or more
- (d) 30 per cent or more

Q106. Which one of the following is NOT a current of Pacific Ocean?

- (a) Oyashio current
- (b) Alaska current
- (c) Agulhas current
- (d) California current

Q107. The duration of monsoon in India extends for an average period of

- (a) 80 – 140 days
- (b) 100 – 120 days
- (c) 90 – 130 days
- (d) 100 – 140 days

Q108. Which one of the following is the natural vegetation of South-east China?

- (a) Subtropical broadleaf evergreen forest
- (b) Tropical broadleaf evergreen forest
- (c) Tropical deciduous forest
- (d) Temperate evergreen forest

Q109. Which one of the following is a cold local wind?

- (a) Santa Ana
- (b) Chinook
- (c) Mistral
- (d) Loo

Q110. What was the consequence of Permanent Settlement on rural society in Bengal?

- (a) The zamindars invested capital and enterprise to improve agriculture along lines of British yeoman farmers
- (b) A group of rich peasants known as jotedars succeeded in consolidating their position in the villages
- (c) The ryots prospered as a result of fixed revenue levy imposed on them
- (d) The system of Collectorate introduced by the Company for exercising supervisory control on zamindars failed to take off

Q111. What was Damin-i Koh in Rajmahal area?

- (a) A large area of land demarcated and declared to be the land of the Santhals
- (b) The land of the Paharias cultivated exclusively for paddy
- (c) The British territory marked for their military camp
- (d) The land earmarked for locating settled agriculturists

Q112. Which one of the following statements about the Revolt of 1857 is correct?

- (a) It was a Revolt carefully organised and planned by the Rajas, Nawabs and Taluqdars
- (b) Rumours and prophecies did not play any role in its outbreak and spread
- (c) The rebel proclamations in 1857 repeatedly appealed to all sections of the population irrespective of their caste and creed.
- (d) The British succeeded in quickly and easily controlling the rebels

Q113. Which one among the following was NOT a Panch Sheel principle?

- (a) Peaceful Co-existence
- (b) Mutual respect for territorial integrity
- (c) Nuclear deterrence
- (d) Non-interference in internal affairs

Q114. Who among the following had organised, in 1904, a secret society of revolutionaries named Abhinav Bharat?

- (a) Khudiram Bose
- (b) Shyamji Krishna Verma
- (c) Har Dayal
- (d) V D Savarkar

Q115. The principle that the framing of the new Constitution for independent India should be primarily (though not solely) the responsibility of Indians themselves, was for the first time conceded in the

- (a) Government of India Act, 1935
- (b) August Offer of Viceroy Linlithgow
- (c) Cripps Proposals
- (d) Cabinet Mission

Q116. Which one of the following is a major environmental issue in eastern Canada?

- (a) Acid precipitation
- (b) Groundwater depletion
- (c) Land degradation
- (d) Desertification

Q117. Which one of the following mountains lies in between Caspian Sea and Black Sea?

- (a) Caucasus
- (b) Carpathians
- (c) Apennine
- (d) Elburz

Q118. Bagalihar, Dulhasti and Salal hydro power projects have been developed on which of the following rivers?

- (a) Chenab and Jhelum
- (b) Chenab and Indus
- (c) Ravi
- (d) Chenab only

Q119. Which of the following statements with regard to Biosphere Reserve is/are correct?

1. The idea of Biosphere Reserve was initiated by UNESCO in 1973-74

2. There are 18 designated Biosphere Reserves in India

3. All Biosphere Reserves in India have been included in world network of Biosphere Reserves of UNESCO

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

Q120. Which one of the following countries does NOT have direct access to the sea/ocean?

- (a) Syria
- (b) Jordan
- (c) Azerbaijan
- (d) Armenia

Q121. In an incandescent electric bulb, the filament of the bulb is made up of which metal?

- (a) Aluminium
- (b) Copper
- (c) Tungsten
- (d) Silver

Q122. Two equal resistors R are connected in parallel, and a battery of 12 V is connected across this combination. A d.c. current of 100 mA flows through the circuit as shown below. The value of R is

- (a) 120 Ω
- (b) 240 Ω
- (c) 60 Ω
- (d) 100 Ω

Q123. Which one of the following is NOT the unit of energy?

- (a) Joule
- (b) Watt-hr
- (c) Newton-metre
- (d) kg-metre/sec²

Q124. Which one of the following statements is NOT correct?

- (a) Biomass is a renewable source of energy
- (b) Gobar gas is produced when cow-dung, crop residues, vegetable waste and sewage are allowed to decompose in the absence of oxygen
- (c) Biogas generation reduces soil and water pollution
- (d) Heating capacity of biogas is very low

Q125. In prokaryotic organisms, nuclear region is not surrounded by a membrane. This undefined nuclear region is known as

- (a) Nucleic acid
- (b) Nucleoid
- (c) Nucleolus
- (d) Nucleosome

Q126. Which one of the following plant tissues has dead cells?

- (a) Epidermis
- (b) Parenchyma
- (c) Collenchyma
- (d) Sclerenchyma

Q127. Cartilage is NOT found in

- (a) larynx
- (b) nose
- (c) ear
- (d) urinary bladder

Q128. Two planets orbit the Sun in circular orbits, with their radius of orbit as $R_1 = R$ and $R_2 = 4R$. Ratio of their periods (T_1/T_2) around the Sun will be

- (a) 1/16
- (b) 1/8
- (c) 1/4
- (d) 1/2

Q129. A metallic wire having resistance of $20\ \Omega$ is cut into two equal parts in length. These parts are then connected in parallel. The resistance of this parallel combination is equal to

- (a) $20\ \Omega$
- (b) $10\ \Omega$
- (c) $5\ \Omega$
- (d) $15\ \Omega$

Q130. Light of uniform intensity impinges perpendicularly on a totally reflecting surface. If the area of the surface is halved, the radiation force on it will become

- (a) double
- (b) half
- (c) four times
- (d) one fourth

Q131. The part of the human eye on which the image is formed is

- (a) pupil
- (b) cornea
- (c) retina
- (d) iris

Q133. Which one of the following statements about sound is NOT correct?

- (a) Sound travels at a speed slower than the speed of light
- (b) Sound waves are transverse waves
- (c) Sound waves are longitudinal waves
- (d) Sound travels faster in moist air than in dry air

Q134. When the short circuit condition occurs, the current in the circuit

- (a) becomes zero
- (b) remains constant
- (c) increases substantially
- (d) keeps on changing randomly

Q135. Which one of the following is NOT a component of human male reproductive system?

- (a) Cervix
- (b) Urethra
- (c) Seminal vesicle
- (d) Vas deferens

Q136. Which one of the following is NOT a reason of decrease in biodiversity?

- (a) Large scale deforestation
- (b) Exploitation of forest produce
- (c) Maintaining sacred groves
- (d) Encroachment in forest areas

Q137. Which one of the following is NOT a cause of depletion in groundwater?

- (a) Afforestation
- (b) Loss of forests
- (c) Excessive pumping of groundwater
- (d) Construction of large scale concrete buildings

Q138. Which one of the following types of radiations has the smallest wavelength?

- (a) Microwaves
- (b) Infra-red
- (c) Visible light
- (d) X-rays

Q139. The instrument used for detecting the presence of electric current in a circuit is

- (a) Refractometer
- (b) Galvanometer
- (c) Viscometer
- (d) Diffractometer

Q140. Which one of the following is the largest composition in biogas?

- (a) Carbon dioxide
- (b) Methane
- (c) Hydrogen
- (d) Hydrogen sulphide

Q141. The Sun appears reddish during sunrise and sunset. The phenomenon in optics which is responsible for this appearance of the Sun is

- (a) Reflection
- (b) Total internal reflection
- (c) Scattering
- (d) Interference

Q142. A lens has a power of +2.0 Dioptre. Which one of the following statements about the lens is true?

- (a) The lens is concave and has a focal length of 0.5 metre
- (b) The lens is convex and has a focal length of 2.0 metre
- (c) The lens is convex and has a focal length of 0.5 metre
- (d) The lens is concave and has a focal length of 2.0 metre

Q143. At nearly 70 °C, sodium bicarbonate shows the property of gradually decomposing, which makes it usable in bakery products. The product of decomposition responsible for this use of sodium bicarbonate is

- (a) Carbon dioxide
- (b) Hydrogen
- (c) Water vapour
- (d) Oxygen

Q144. Number of molecules of water of crystallization in copper sulphate, sodium carbonate and Gypsum are

- (a) 5, 10 and 2 respectively
- (b) 10, 2 and 5 respectively
- (c) 5, 2 and 10 respectively
- (d) 2, 5 and 10 respectively

Q145. Which one of the following is the correct sequence of change in colours when a turmeric stain on white clothes is scrubbed by soap and then washed with water?

- (a) Yellow – pink – blue
- (b) Yellow – reddish brown – yellow
- (c) Yellow – reddish brown – blue
- (d) Yellow – blue – pink

Q146. Which one of the following statements regarding Bleaching powder and D.D.T. is correct?

- (a) Both are inorganic compounds
- (b) Both are organic compounds
- (c) Both contain chlorine
- (d) Both contain calcium

Q147. Which one of the following is the best example of desiccant?

- (a) Silica gel
- (b) Polystyrene
- (c) Sodium chloride
- (d) Sodium carbonate

Q148. Which one of the following was the first mineral acid discovered?

- (a) Sulphuric acid
- (b) Hydrochloric acid
- (c) Nitric acid
- (d) Phosphoric acid

Q149. The refractive index of fused quartz is 1.46 and that of sapphire is 1.77. If v_q is the speed of light in quartz and v_s is the speed of light in sapphire, then which one of the following relationships is correct?

- (a) $v_q > v_s$
- (b) $v_s > v_q$
- (c) $v_s = v_q$
- (d) $v_s = v_q/2$

Q150. In case of a concave mirror, if an object is placed between the principal focus F and pole P of the mirror, which one of the following statements about the image is NOT correct?

- (a) The image will be virtual
- (b) The image will be enlarged or magnified
- (c) The image will be formed at infinity
- (d) The image will be erect