



## MNS TEST PAPER (MT-009)

Timing: 90 minutes

M.M: 150

**INSTRUCTION:-** Read questions carefully. Each question contains 1 mark.

- Sensitive layer of eye is.  
(a) Retina (b) Cornea  
(c) Sclera (d) Choroid
- The vibrations produced in the ear drum are transmitted in ..... through the ear ossicles to the fluid filled inner ear via.  
(a) Oval window  
(b) Both oval and round window  
(c) Round window  
(d) Helicotrema
- Which of the following is visible coloured and opaque portion of our eye.  
(a) sclera (b) Cornea  
(c) Iris (d) Lens
- Semicircular canals in internal ear are concerned with.  
(a) Hearing  
(b) Balance of body  
(c) Transmission of sound vibrations to cochlea  
(d) Balance of pressure on either side of the eardrum
- Which glands are located in the auditory meatus.  
(a) Ceruminous (b) zies  
(c) Meibomian (d) Moll
- Crista ampullaris is associated with.  
(a) Sacculus (b) Utriculus  
(c) Organ of corti (d) Semi circular canals
- If the canal of schlemm is blocked which of the following may occur.  
(a) Cataract (b) Glaucoma  
(c) Astigmatism (d) Prebyopia
- Which is responsible for colour detection?  
(a) Cones (b) Rods  
(c) Rods and cones (d) Choroid
- The vitamin which is essential for blood clotting is  
(a) vitamin-A (b) vitamin-B  
(c) vitamin-C (d) vitamin-K
- At the base of cochlea, the scala vestibule ends at, where as scala tympani terminates at the which opens to the middle ear.  
(a) oval window, round window  
(b) round window, oval window  
(c) circular window, oval window  
(d) round window, circular window
- Which of the following pair of structure of eye are transparent?  
(a) Cornea and lens (b) Lens and sclera  
(c) Iris and lens (d) Cornea and iris.
- No image formation occurs on blind-spot of retina because:  
(a) It is not present of the optical axis of the eye  
(b) Here cones and rods are absent  
(c) On this part only cones are present  
(d) The nerve fibres of this region do not contribute in the formation of optic chiasma.
- The organ of corti is a structure which contains hair cells that act as auditory receptors and is located on the :  
(a) Reissner's membrane  
(b) Tectorial membrane  
(c) Basilar membrane  
(d) Nictitating membrane.
- Photosensitive compound in human eye is made up of  
(a) opsin and retinol  
(b) transducin and retinene  
(c) guanine and retinol  
(d) opsin and retinal.
- The damage to ear by sudden explosion (loud sound) is prevented by:  
(a) Organ of Corti (b) Eustachian tube  
(c) Stapedius muscles (d) Semi-circular canals.
- In mammalian eye, the 'fovea' is the center of the visual field, where  
(a) only rods are present  
(b) more rods than cones are found  
(c) high density of cones occur, but has nor rods  
(d) the optic nerve leaves the eye.
- A gymnast is able to balance his body upside down even in the total darkness because of  
(a) tectorial membrane  
(b) organ of corti  
(c) cochlea  
(d) vestibular apparatus.
- Which one of the following statements is not correct?  
(a) Retinal is the light absorbing portion of visual photo pigments.  
(b) In retina the rods have the photopigment rhodopsin while cones have three different photopigments  
(c) Retinal is a derivative of vitamin C.  
(d) Rhodopsin is the purplish red protein present in rods only.
- Which part of the human ear plays no role in hearing as such but is otherwise very much required?  
(a) Eustachian tube (b) Organ of Corti  
(c) Vestibular apparatus (d) Ear ossicles.
- Cornea transplant in humans is almost never rejected. This is because  
(a) it is composed of enucleated cells  
(b) it is a non-living layer  
(c) its cells are least penetrable by bacteria  
(d) it has no blood supply.
- Lens and cornea do not have blood supply. They are supplied with nutrients by  
(a) Vitreous humor (b) Aqueous humor  
(c) Blind spot (d) Retina.
- Size of pupil is controlled by  
(a) Ciliary muscles (b) Suspensory ligaments  
(c) Cornea (d) Iris muscles.
- Specific receptors responsible for the balance of the body and posture are  
(a) Organ of Corti  
(b) Crista and macula  
(c) Basilar membrane  
(d) Tectorial membrane.
- Photo pigments of human eye are composed of a protein called  
(a) Melanin (b) Retinal

- (c) Opsin (d) Myosin
25. Chemicals which are released at the synaptic junction are called:  
 (a) Hormones (b) Neurotransmitters  
 (c) Cerebrospinal fluid (d) Lymph.
26. Resting membrane potential is maintained by:  
 (a) Hormones (b) Neurotransmitters  
 (c) Ion pumps (d) None of these.
27. Mark the vitamin present in Rhodopsin:  
 (a) Vit. A (b) Vit. B  
 (c) Vit. C (d) Vit. D
28. Human eyeball consists of three layers and it encloses:  
 (a) Lens, iris, optic nerve  
 (b) Lens, aqueous humor and vitreous humor  
 (c) Cornea, lens, iris  
 (d) Cornea, lens, optic nerve.
29. Wax gland present in the ear canal is called:  
 (a) Sweat gland  
 (b) Prostate gland  
 (c) Cowper's gland  
 (d) Sebaceous gland/ ceromonious gland.
30. The part of internal ear responsible for hearing is:  
 (a) Cochlea (b) Semicircular canal  
 (c) Utriculus (d) Sacculus
31. The number of moles of solute present in 1 kg of a solvent is called its  
 (a) molality (b) molarity  
 (c) normality (d) formality
32. The ionic radii of  $N^{3-}$ ,  $O^{2-}$ ,  $F^-$  and  $Na^+$  follows the order  
 (a)  $N^{3-} > O^{2-} > F^- > Na^+$   
 (b)  $N^{3-} > Na^+ > O^{2-} > F^-$   
 (c)  $Na^+ > O^{2-} > N^{3-} > F^-$   
 (d)  $O^{2-} > F^- > Na^+ > N^{3-}$
33. The gas used in the manufacture of vanaspati from vegetable oil is  
 (a) hydrogen (b) oxygen  
 (c) nitrogen (d) carbon dioxide
34. The mass of one Avogadro number of helium atom is  
 (a) 1.00 gram (b) 4.00 gram  
 (c) 8.00 gram (d)  $4 \times 6.02 \times 10^{23}$  gram
35. The most malleable metal is  
 (a) platinum (b) silver  
 (c) iron (d) gold
36. The most abundant rare gas in the atmosphere is  
 (a) He (b) Ne  
 (c) Ar (d) Xe
37. The metal that is used as a catalyst in the hydrogenation of oils is  
 (a) Ni (b) Pb  
 (c) Cu (d) Pt
38. The nucleus of a hydrogen atom consists of  
 (a) 1 proton only (b) 1 proton + 2 neutron  
 (c) 1 neutron only (d) 1 electron only
39. The most commonly used bleaching agent is  
 (a) alcohol (b) carbon dioxide  
 (c) chlorine (d) sodium chlorine
40. The most electronegative element among the following is  
 (a) sodium (b) bromine  
 (c) fluorine (d) oxygen
41. Measurement of large distance is done by:  
 (a) Metre scale method  
 (b) Parallax method
- (c) Distance method  
 (d) Position method
42. Suppose true value of certain length is near 3.578 cm student took three reading with different scale.  
 (1) 3.5 cm using 0.1 cm resolution scale  
 (2) 3.38 cm using 0.01 cm resolution scale  
 (3) 3.372 cm using 0.001 cm resolution scale. Then  
 (a) First is more accurate  
 (b) 2nd is more accurate  
 (c) 3rd is more precise  
 (d) Both (1) and (3) are correct
43. Select the incorrect are :  
 (a) 0.06900 has 4 number of significant figures.  
 (b) 0.6900 has 4 number of significant figures.  
 (c) 6.900 has 2 number of significant figures.  
 (d) 6.900 kg has 4 number of significant figures.
44. Which of the following measurement is most precise?  
 (a) 6.00 mm (b) 6.00 cm  
 (c) 6.00 m (d) 6.00 km
45. Device used for measuring the mass of atoms and molecules.  
 (a) Chronometer (b) Spectrometer  
 (c) Spectroscope (d) Anemometer
46. Match the column
- Column-I**  
 (p) Quantity has unit but no dimensions  
 (q) Quantity has neither unit nor dimensions  
 (r) A constant which has a unit
- Column-II**  
 (a) Relative density  
 (b) Solid angle  
 (c) Reynolds number  
 (d) permittivity of free space
- (a) p-a; q-b; r-c (b) p-c; q-d; r-b  
 (c) p-d; q-c; r-a (d) p-b; q-a; r-d
47. We have different unit for same physical quantity because same physical quantity  
 (a) is measured by different instrument  
 (b) is measured by different method  
 (c) is measured with the different significant Number  
 (d) is measured with the different orders of the Quantity
48. Light year is  
 (a) Light emitted by the Sun in one year  
 (b) The time taken by light to travel from Sun to Earth  
 (c) The distance travelled by light in free space in one year  
 (d) The time taken by earth to go once around the Sun
49. Checking the correctness of equation using the method of dimensions is based on  
 (a) The type of system  
 (b) Equality of inertial frames of references  
 (c) Principle of homogeneity of dimensions  
 (d) None of these
50. Which of the following is the most precise instrument for measuring length  
 (a) Metre rod of least count 0.1 cm  
 (b) Vernier callipers of least count 0.01 cm  
 (c) Screw gauge of least count 0.001 cm  
 (d) Data is not sufficient to decide.
51. Check the correctness of the relation  $S = ut + \frac{1}{2}at^2$ , where u is initial velocity, a the acceleration, t the time and S the displacement  
 (a) Dimensionally correct  
 (b) Dimensionally incorrect

- (c) Can't explain  
(d) Data insufficient
52. Write the dimensions of  $a$  in the relation,  $P = \frac{b-x^2}{at}$  where  $P$  is power,  $x$  the distance and  $t$  the time.  
(a)  $M^0L^0T^0$  (b)  $M^1L^0T^2$   
(c)  $M^{-1}L^0T^2$  (d)  $M^0LT^{-1}$
53. (a) The South Asian Association for Regional Cooperation (SAARC) is based in which country?  
(a) Beijing, China (b) Kathmandu, Nepal  
(c) Dhaka, Bangladesh (d) Kabul, Afghanistan
54. Pune is situated on the bank of which river?  
(a) Mutha (b) Girna  
(c) Godavari (d) Krishna
55. Rock Shelters of Bhimbetka is a UNESCO World Heritage Site located in \_\_\_\_\_?  
(a) Maharashtra (b) Bihar  
(c) Karnataka (d) Madhya Pradesh
56. The CB Patel International Cricket Stadium is located in which state?  
(a) Rajasthan (b) Haryana  
(c) Gujarat (d) Chhattisgarh
57. Quit India Day is held every year on \_\_\_\_\_?  
(a) September 9 (b) July 7  
(c) August 8 (d) May 10
58. Recep Tayyip Erdogan is the President of which country?  
(a) Bolivia (b) Chile  
(c) Slovakia (d) Turkey
59. Sambalpuri dance is a folk dance which has its origin from which state of India?  
(a) Goa (b) Assam  
(c) Odisha (d) Uttarakhand
60. Name the Indian city which is also known as "Garden City of India"?  
(a) Darjeeling (b) Shimla  
(c) Surat (d) Bengaluru
61. Kumbhalgarh Fort is situated in which state?  
(a) Madhya Pradesh (b) Rajasthan  
(c) Delhi (d) Haryana
62. Who is the author of 'The Ministry of Utmost Happiness'?  
(a) Vikram Seth (b) Salman Rushdie  
(c) Arundhati Roy (d) Jhumpa Lahiri
63. Manas Wildlife Sanctuary is located in \_\_\_\_\_?  
(a) Himachal Pradesh (b) Kerala  
(c) Uttarakhand (d) Assam
64. Addis Ababa is the capital of which country?  
(a) Palau (b) Liberia  
(c) Iceland (d) Ethiopia
65. World Malaria Day is held every year on \_\_\_\_\_?  
(a) 30 May (b) 25 April  
(c) 15 June (d) 4 March
66. Vadodara in Gujarat is situated along the banks of which river?  
(a) Vishwamitri (b) Sabarmati  
(c) Narmada (d) Tapi
67. Farakka Super Thermal Power Station is based in which of the following states of India?  
(a) Maharashtra (b) Himachal Pradesh  
(c) Uttar Pradesh (d) West Bengal
68. Where is the Dadaji Kondadev Stadium based?  
(a) West Bengal (b) Maharashtra  
(c) Punjab (d) Haryana
69. The Confederations Cup is related to which sports?  
(a) Golf (b) Badminton  
(c) Tennis (d) Football
70. World Diabetes Day is observed annually on \_\_\_\_\_?  
(a) December 5 (b) September 23  
(c) November 14 (d) August 11
71. Where is "Gangotri National Park" situated?  
(a) Himachal Pradesh (b) Mizoram  
(c) Nagaland (d) Uttarakhand
72. The Beighton Cup is related to which sports?  
(a) Hockey (b) Tennis  
(c) Horse Riding (d) Badminton
73. Nathpa Jhakri Dam is in Himachal Pradesh. It is built over which river?  
(a) Beas (b) Ravi  
(c) Sutlej (d) Krishna
74. Dhap dance is a traditional folk dance of which state?  
(a) Punjab (b) Rajasthan  
(c) Odisha (d) Madhya Pradesh
75. What is the capital of Seychelles?  
(a) Victoria (b) Freetown  
(c) Vilnius (d) Georgetown
76. Rajiv Gandhi International Airport is in which city?  
(a) Bengaluru (b) Chennai  
(c) Mumbai (d) Hyderabad
77. The Queen's Stepwell, Patan is in which state?  
(a) Uttar Pradesh (b) Bihar  
(c) Gujarat (d) Goa
78. Amnesty International is based in which country?  
(a) London, United Kingdom  
(b) Lyon, France  
(c) Madrid, Spain  
(d) Lausanne, Switzerland
79. The Moin-ul-Haq Stadium is in \_\_\_\_\_?  
(a) Patna (b) Raipur  
(c) Guwahati (d) Srinagar
80. International Migrants Day is observed every year on \_\_\_\_\_?  
(a) November 24 (b) December 18  
(c) March 9 (d) August 16
81. Dibrugarh is located on the banks of which river?  
(a) Sabarmati (b) Brahmaputra  
(c) Jhelum (d) Alaknanda
82. Srikantadatta Narasimha Raja Wadeyar Ground is a cricket ground based in which state of India?  
(a) Kerala (b) Tamil Nadu  
(c) Andhra Pradesh (d) Karnataka
83. The "Bhusawal Thermal Power Station" is situated in \_\_\_\_\_?  
(a) Madhya Pradesh (b) Maharashtra  
(c) Jharkhand (d) Andhra Pradesh
84. Mahayogi Gorakhnath Airport is in \_\_\_\_\_?  
(a) Jharkhand (b) Uttar Pradesh  
(c) Uttarakhand (d) Chhattisgarh
85. With which sports is "The Durand Cup" associated?  
(a) Hockey (b) Polo  
(c) Football (d) Cricket
86. International Shooting Sport Federation (ISSF) has its headquarter at \_\_\_\_\_?  
(a) Munich, Germany  
(b) London, United Kingdom  
(c) Budapest, Hungary  
(d) Lausanne, Switzerland
87. The "Bhindawas Wildlife Sanctuary" is situated in which state?  
(a) Goa (b) Assam  
(c) Meghalaya (d) Haryana

- 88.** The Vaigai Dam is situated in which state?  
 (a) Telangana (b) Andhra Pradesh  
 (c) Tamil Nadu (d) Odisha
- 89.** Where is "Sajjan Niwas Garden" (Gulab Bagh) located?  
 (a) Rajasthan  
 (b) Jammu & Kashmir  
 (c) Haryana  
 (d) West Bengal
- 90.** What is the currency of Chile?  
 (a) Euro (b) Peso  
 (c) Pound (d) Dollar
- DIRECTION (91-99):** Three of the following four letter clusters are alike in a certain way and one is different.
- 91.** (a) PSVY (b) CFJM  
 (c) KNQT (d) SVYB
- 92.** (a) 317 (b) 319  
 (c) 349 (d) 347
- 93.** (a) 99 (b) 97  
 (c) 89 (d) 83
- 94.** (a) 277 (b) 239  
 (c) 233 (d) 253
- 95.** (a) Bray (b) Hoot  
 (c) Amble (d) Roar
- 96.** (a) Projector (b) Light Pen  
 (c) CRT (d) Speaker
- 97.** (a) HSKPM (b) PKSHV  
 (c) DWGTJ (d) JQMNP
- 98.** (a) Spades Card (b) Club Card  
 (c) Diamond Card (d) Black Card
- 99.** (a) Lungs (b) Nose  
 (c) Heart (d) Kidney
- 100.** In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.  
 (a) (113, 109, 105) (b) (142, 137, 133)  
 (c) (197, 193, 189) (d) (162, 158, 154)
- DIRECTION (101-115):** Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete
- 101.** About twenty clerks were made ..... when the banks introduced computers.  
 (a) dispensable (b) redundant  
 (c) expandable (d) obsolete
- 102.** After the rain the weather ..... and the sun came out.  
 (a) cleared out (b) cleared up  
 (c) cleared away (d) cleared off
- 103.** The building comprises ..... sixty rooms.  
 (a) of (b) onto  
 (c) by (d) no preposition needed
- 104.** Namrata was found to ..... the required qualifications for the job.  
 (a) contain (b) disclose  
 (c) posses (d) acquire
- 105.** Government buildings are ..... on the Republic day.  
 (a) enlightened (b) lightened  
 (c) illuminated (d) glowed
- 106.** We had ..... wonderful time at the party last night.  
 (a) such a (b) so  
 (c) such (d) very
- 107.** An employment advertisement should ..... the number of vacancies.  
 (a) provide (b) specify  
 (c) contain (d) declare
- 108.** When Varun left the cocktail party he was as ..... as a judge.  
 (a) sober (b) drunk  
 (c) brave (d) wise
- 109.** The criminal seems to have acted in ..... the three others.  
 (a) collusion (b) coalition  
 (c) collision (d) cohesion
- 110.** Soft minded individuals are ..... to embrace all kinds superstitions.  
 (a) disposed (b) eager  
 (c) reluctant (d) prone
- 111.** The stenographer is very efficient. He is ..... to his firm.  
 (a) a boon (b) a credit  
 (c) a blessing (d) an asset
- 112.** However, the group's long-term strategy is to ..... on core sector business connected with infrastructure and energy.  
 (a) breed (b) develop  
 (c) Concentrate (d) depend
- 113.** The man came in a van to ..... the television set.  
 (a) mend (b) reform  
 (c) correct (d) alter
- 114.** Nobody can ..... me to do anything which I do not want to do.  
 (a) encourage (b) request  
 (c) oppose (d) compel
- 115.** A sanguine outlook is associated with the .....  
 (a) rationalist (b) socialist  
 (c) philanthropist (d) optimist
- DIRECTION (116-122):** In the following questions choose the word which is the exact OPPOSITE of the given words.
- 116. ALIEN**  
 (a) Native (b) Domiciled  
 (c) Natural (d) Resident
- 117. SYNTHETIC**  
 (a) Affable (b) Natural  
 (c) Plastic (d) Cosmetic
- 118. BALANCE**  
 (a) Disbalance (b) Misbalance  
 (c) Debalance (d) Imbalance
- 119. LIABILITY**  
 (a) Property (b) Assets  
 (c) Debt (d) Treasure
- 120. MOUNTAIN**  
 (a) Plain (b) Plateau  
 (c) Precipice (d) Valley
- 121. STATIONARY**  
 (a) Active (b) Mobile  
 (c) Rapid (d) Busy
- 122. CONCEDE**  
 (a) Object (b) Refuse  
 (c) Grant (d) Accede
- DIRECTION (123-130):** In the following the questions choose the word which best expresses the meaning of the given word.
- 123. PRECARIOUS**  
 (a) Cautious (b) Critical  
 (c) Perilous (d) Brittle
- 124. INFAMY**  
 (a) Dishonour (b) Glory  
 (c) Integrity (d) Reputation
- 125. MASTERLY**  
 (a) Crafty (b) Skilful  
 (c) Meaningful (d) Cruel
- 126. SCINTILLATING**

- (a) Smouldering (b) Glittering  
(c) Touching (d) Warming
- 127. TEPID**  
(a) Hot (b) Warm  
(c) Cold (d) Boiling
- 128. VORACIOUS**  
(a) Wild (b) Greedy  
(c) Angry (d) Quick
- 129. UNITE**  
(a) Unfold (b) Unchain  
(c) Combine (d) Unhinge
- 130. COMBAT**  
(a) Conflict (b) Quarrel  
(c) Feud (d) Fight
- DIRECTION (131-140):** In the following questions four alternatives are given for the idiom/phrase IN CAPITAL WORDS in the sentence. Choose the alternative which best expresses the meaning of idiom/phrase.
- 131.** We should GIVE A WIDE BERTH to bad characters.  
(a) give publicity to (b) publicly condemn  
(c) keep away from (d) not sympathise with
- 132.** Turban is in VOGUE in some communities.  
(a) in fashion (b) out of use  
(c) vaguely used (d) never used
- 133.** The old man was CUT TO THE QUICK when his rich son refused to recognise him.  
(a) surprised (b) hurt intensely  
(c) annoyed (d) irritated
- 134.** I requested him to PUT IN A WORD FOR ME.  
(a) introduce (b) assist  
(c) support (d) recommend
- 135.** The dacoit murdered the man IN COLD BLOOD.  
(a) coldly (b) boldly  
(c) ruthlessly (d) deliberately
- 136.** He has built a big business empire by his SHARP PRACTICES.  
(a) extreme hard work (b) keen business skills  
(c) dishonest dealings (d) sharp intelligence
- 137.** The secretary and the treasurer are HAND IN GLOVE with each other.  
(a) very good friends  
(b) constantly fighting  
(c) associates in some action  
(d) suspicious of each other
- 138.** He never liked the idea of keeping his wife UNDER HIS THUMB and so he let her do what she liked.  
(a) Pressed down  
(b) Unduly under control  
(c) Below his thumb  
(d) Under tyrannical conditions.
- 139.** It is time that professors came down from their IVORY TOWERS and studied the real needs of the students.  
(a) Detachment and seclusion  
(b) A tower made of ivory  
(c) Prison  
(d) Dream lands
- 140.** You have to be A COOL CUSTOMER and be patient if you want to get the best buys.  
(a) Be calm and not be excitable  
(b) Have a cool head  
(c) Be uncommunicative  
(d) Be choosy
- DIRECTION (141-150):** Out of the given alternatives, choose the one which can be substituted for the given words or sentence.
- 141.** Extreme old age when a man behaves like a fool  
(a) Imbecility (b) Senility  
(c) Dotage (d) Superannuation
- 142.** That which cannot be corrected  
(a) Unintelligible (b) Indelible  
(c) Illegible (d) Incorrigible
- 143.** The study of ancient societies  
(a) Anthropology (b) Archaeology  
(c) History (d) Ethnology
- 144.** A person of good understanding knowledge and reasoning power  
(a) Expert (b) Intellectual  
(c) Snob (d) Literate
- 145.** A person who insists on something  
(a) Disciplinarian (b) Stickler  
(c) Instantaneous (d) Boaster
- 146.** State in which the few govern the many  
(a) Monarchy (b) Oligarchy  
(c) Plutocracy (d) Autocracy
- 147.** A style in which a writer makes a display of his knowledge  
(a) Pedantic (b) Verbose  
(c) Pompous (d) Ornate
- 148.** List of the business or subjects to be considered at a meeting  
(a) Schedule (b) Timetable  
(c) Agenda (d) Plan
- 149.** Leave or remove from a place considered dangerous  
(a) Evade (b) Evacuate  
(c) Avoid (d) Exterminate
- 150.** A prima facie case is such  
(a) As it seems at first sight  
(b) As it is made to seem at first sight  
(c) As it turns out to be at the end  
(d) As it seems to the court after a number of hearings