

1. She disagreed totally ..... what I said.  
(a) with (b) to  
(c) about (d) for
2. It was a long journey. I was very tired after ..... in a train for 36 hours.  
(a) sit (b) sat  
(c) sitting (d) seat
3. Pick the antonym of "attentive" from the following :  
(a) unattentive (b) inattentive  
(c) disattentive (d) deattentive
4. An invalid is a person who is  
(a) unacceptable or unpleasant (b) indulgent or permissive  
(c) not affected by disease or torture (d) made weak or disabled by illness or inj
5. The children can read French, .....  
(a) couldn't they ? (b) won't they ?  
(c) isn't it ? (d) can't they ?
6. On the flight from Baroda, I sat ..... a famous football star.  
(a) beside (b) besides  
(c) along (d) between
7. My car, ..... has been damaged, is with the mechanic.  
(a) which (b) who  
(c) whom (d) whose
8. 'Ancestor' is the antonym of  
(a) Peer (b) Seer  
(c) Descendant (d) Follower
9. If something falls on deaf ears.  
(a) it is accepted. (b) it is ignored.  
(c) it is postponed. (d) it is upheld.
10. 'Affluent' is the synonym of :  
(a) neutral (b) sentimental  
(c) wealthy (d) handsome
11. He left the hotel without ..... the bill.  
(a) paid (b) unpaid  
(c) payment (d) paying
12. Before the competition, Jatin swam ..... the river and back to build up his stamina.  
(a) in (b) inside  
(c) across (d) into

13. Manan, ..... we met after ages, was there for the reunion.  
(a) with whom (b) whom  
(c) which (d) whose
14. How long have you ..... that book ?  
(a) read (b) reading  
(c) are reading (d) been reading
15. 'Remote' means :  
(a) Automatic (b) Distant  
(c) Savage (d) Mean
16. Which of the state in India has made rooftop rainwater harvesting structure compulsory to all the houses across the state?  
(a) Karnataka (b) Tamil Nadu  
(c) Orissa (d) Madhya Pradesh
17. A system of society where a father or eldest male is the head of the family is known as  
(a) Patriarchal Society (b) Matriarchal Society  
(c) Hierarchy Society (d) Racial Society
18. The world's largest inhabited riverine island in the Brahmaputra River is  
(a) Maiwa (b) Majuli  
(c) Lohit (d) Manas
19. World Environment Day is celebrated on  
(a) June 5 (b) June 15  
(c) October 15 (d) November 9
20. The Planetary winds that blow from the subtropical high pressure belts to the equator are known as  
(a) Westerlies (b) Doldrums  
(c) Polar winds (d) Trade winds
21. Which state had the out break of Nipah Virus in 2018 :  
(a) Tamil Nadu (b) Telangana  
(c) West Bengal (d) Kerala
22. Who among the following was considered as his political guru by Gandhiji ?  
(a) Balgangadhar Tilak (b) Gopal Krishna Gokhale  
(c) Lala Lajpat Rai (d) Swami Vivekanand
23. The resolution of Purna Swaraj was adopted at which Congress Session ?  
(a) Lahore Session in 1929 (b) Bombay Session in 1934  
(c) Lucknow Session in 1936 (d) Karachi Session in 1931

24. The largest airport in area in the World is in :  
 (a) Dammam (b) New York  
 (c) London (d) Tokyo
25. The capital of Ghana is  
 (a) Quito (b) Accra  
 (c) Hanoi (d) Tirana
26. Kaziranga National Park is known for  
 (a) Elephants (b) Rhinoceros  
 (c) Tigers (d) Bears
27. McMahon line lies between which of the following Countries ?  
 (a) India – Bangladesh (b) India – Pakistan  
 (c) India – Nepal (d) India – China
28. Who among the following serves as the Chancellor of the State Universities ?  
 (a) Governor (b) Chief Minister  
 (c) Education Minister (d) Chief Justice of High Court
29. Which of the following waves is not produced by an earthquake ?  
 (a) P-waves (b) S-waves  
 (c) Radio waves (d) Surface waves
30. Ghana Bird Sanctuary is located in which state?  
 (a) West Bengal (b) Tamil Nadu  
 (c) Rajasthan (d) Uttarakhand
31. The linear momentum of a body is increased by 10%. What is the change in its kinetic energy?  
 (a) 10% (b) 20%  
 (c) 11% (d) 21%
32. Two billiard balls each of mass 50 gm moving in opposite directions with a speed of 3 m/s collide and rebound with same velocity. The impulse imparted to each ball due to other would be  
 (a) 0.1 kg ms<sup>-1</sup> (b) 1 kg ms<sup>-1</sup>  
 (c) 10 kg ms<sup>-1</sup> (d) 100 kg ms<sup>-1</sup>
33. A block of mass 1 kg moving on a horizontal surface with speed 2m/s enters a rough patch from  $x = 0.10$  m to  $x = 2.01$  m. The retarding force on the block in this range is proportional to  $x$

$$F_r = -\frac{k}{x} \text{ for } 0.1\text{m} < x < 2.01 \text{ m}$$

$$= 0 \text{ for } x < 0.1 \text{ m and } x > 2.01 \text{ m}$$

If  $k = 0.5$  J then speed of the block as it crosses the patch would be :

- (a) 1 m/s (b) 2 m/s  
 (c) 3 m/s (d) 4 m/s



34. Fraunhofer lines belong to
- Continuous spectra
  - Absorption spectra
  - Emission spectra
  - Band spectra
35. When a current of 1.0 A is drawn from a battery, then potential difference between its terminals is 38V and when a current of 2.5A is drawn, then potential difference across the terminals drops to 32V. The internal resistance of the battery is
- 2  $\Omega$
  - 4  $\Omega$
  - 6  $\Omega$
  - 8  $\Omega$
36. Current in a circuit falls from 2.5A to 0.0 A in 0.1 second. If an average emf of 100V is induced, the self induction of the circuit becomes
- 8 H
  - 6 H
  - 4 H
  - 2 H
37. Which of the following is true?
- A silicon wafer heavily doped with boron is a  $p^+$  substrate
  - A silicon wafer lightly doped with boron is a  $p^+$  substrate
  - A silicon wafer heavily doped with arsenic is a  $p^+$  substrate
  - A silicon wafer lightly doped with arsenic is a  $p^+$  substrate
38. A projectile can have the same range 'R' for two angles of projection. If  $t_1$  and  $t_2$  be the times of flight in the two cases then initial velocity of projectile is :
- $\frac{1}{4} g t_1 t_2$
  - $\frac{1}{2} g t_1 t_2$
  - $\frac{1}{2} g (t_1 + t_2)^2$
  - $\frac{1}{2} g (t_1^2 + t_2^2)^{\frac{1}{2}}$
39. Two particles of masses 1.0 kg and 2.0 kg are placed at a separation of 50 cm. Assuming that the only forces acting on the particles are their mutual gravitation, the initial accelerations of the two particles are
- $2.65 \times 10^{-10} \text{ ms}^{-2}$  and  $1.32 \times 10^{-10} \text{ ms}^{-2}$
  - $10.6 \times 10^{-10} \text{ ms}^{-2}$  and  $5.3 \times 10^{-10} \text{ ms}^{-2}$
  - $2.65 \times 10^{-10} \text{ ms}^{-2}$  and  $10.6 \times 10^{-10} \text{ ms}^{-2}$
  - $5.3 \times 10^{-10} \text{ ms}^{-2}$  and  $2.65 \times 10^{-10} \text{ ms}^{-2}$
40. Which of the following are not e.m. waves ?
- Cosmic ray
  - $\gamma$ -rays
  - $\beta$ -rays
  - X-rays
41. What is the total number of Sigma bonds found in the following compound ?
- $$\text{CH}_3 - \text{CH} = \text{C} = \text{CH} - \text{C} \equiv \text{C} - \text{H}$$
- 8
  - 10
  - 11
  - 15
42. Choose the incorrect statement
- A small amount of the catalyst can catalyse a large amount of reactants
  - A catalyst alters the Gibbs energy,  $\Delta G$  of a reaction
  - A catalyst does not catalyse non-spontaneous reactions
  - A catalyst does not change the equilibrium constant of a reaction

43. The highest oxidation state of Np and Pu are  
 (a) +6 and +7 respectively (b) +7 and +6 respectively  
 (c) +7 (d) +6
44. The IUPAC name of  $[\text{CoCl}_2(\text{en})_2]\text{Cl}$  is  
 (a) Dichlorobis(ethane-1,2-diamine) Cobaltate (III) dichloride (b) Dichlorido bis(ethane-1,2-diamine) Cobaltate (III) chloride  
 (c) Dichlorobis(ethane-1,2-diamine) Cobaltate (V) chloride (d) Dichloridobis(ethane-1,2-diamine) Co (III) chloride
45. The reaction  $\text{H}_3\text{C}-\text{Br} + \text{AgF} \rightarrow \text{H}_3\text{C}-\text{F} + \text{AgBr}$  is termed as  
 (a) Finkelstein reaction (b) Swarts reaction  
 (c) Stephen reaction (d) Etard reaction
46. Reduction of carbonyl group to a methylene group via alkaline decomposition of the hydrazone known as  
 (a) Rosenmund's reduction (b) Wolff-Kishner reduction  
 (c) Clemensen reduction (d) Sabatier and Senderen's reduction
47. Gabriel phthalimide synthesis is used for the preparation of  
 (a) Aliphatic primary amine (b) Aromatic primary amine  
 (c) Secondary amine (d) Tertiary amine
48. Maltose, a disaccharide is composed of  
 (a) Two  $\alpha$ -D-glucose unit (b) Two  $\beta$ -D-glucose unit  
 (c) one  $\beta$ -D-glucose and one  $\alpha$ -D-galactose (d) One  $\alpha$ -D-glucose and one  $\beta$ -D-glucose
49. The Ziegler-Natta catalyst is a mixture of  
 (a) Triethylaluminium and titanium tetrachloride (b) Triethylaluminium and lead tetrachloride  
 (c) Tetraethyl lead and lead tetrachloride (d) Tetraethyl lead and titanium tetrachloride
50. The seldane is an example of :  
 (a) Antacids (b) Tranquilizers  
 (c) Antihistamines (d) Analgesics
51. The sum of  $n$  terms of the series  $1 + (1+3) + (1+3+5) + \dots$  is  
 (a)  $n^2$  (b)  $\left\{\frac{n(n+1)}{2}\right\}^2$   
 (c)  $\frac{n(n+1)(2n+1)}{6}$  (d)  $\frac{n(n+1)}{2}$
52. If  $z_1$  and  $z_2$  are two complex numbers then incorrect inequality is :  
 (a)  $|z_1 + z_2| \geq 0$  (b)  $|z_1| + |z_2| \geq |z_1 + z_2|$   
 (c)  $|z_1| - |z_2| \leq |z_1 - z_2|$  (d)  $|z_1 - z_2| \leq ||z_1| - |z_2||$



53. If  $A = \{x : x \text{ is a multiple of } 3\}$  and  $B = \{x : x \text{ is a multiple of } 5\}$  then  $A - B$  is  
 (a)  $A \cap B$  (b)  $A \cap \bar{B}$   
 (c)  $\bar{A} \cap \bar{B}$  (d)  $\bar{A} \cap B$
54. If  $A$  is a square matrix of order 3 and  $|A| = 5$  then  $|\text{adj}(A)|$  is equal to  
 (a) 625 (b) 5  
 (c) 25 (d) 15
55. Smaller area enclosed by the circle  $x^2 + y^2 = 4$  and the line  $x + y = 2$  is  
 (a)  $2(\pi - 2)$  (b)  $\pi - 2$   
 (c)  $2\pi - 1$  (d)  $2(\pi + 2)$
56. If  $\vec{a}$  and  $\vec{b}$  are unit vectors such that  $\vec{a} \cdot \vec{b} = \cos \theta$ , then the value of  $|\vec{a} + \vec{b}|$  is  
 (a)  $2 \cos \theta$  (b)  $2 \cos \frac{\theta}{2}$   
 (c)  $\cos \theta$  (d)  $\cos \frac{\theta}{2}$
57. The function 't' which maps temperature in degree Celsius into temperature in degree Fahrenheit is defined by  $t(C) = \frac{9C}{5} + 32$ , then the value of  $C$  when  $t(C) = 212$  is  
 (a)  $C = 100$  (b)  $C = 110$   
 (c)  $C = 90$  (d)  $C = 105$
58. If  $\frac{d}{dx} f(x) = 4x^3 - \frac{3}{x^4}$  such that  $f(2) = 0$ , then  $f(x)$  is :  
 (a)  $x^4 + \frac{1}{x^3} - \frac{129}{8}$  (b)  $x^3 + \frac{1}{x^4} + \frac{129}{8}$   
 (c)  $x^4 + \frac{1}{x^3} + \frac{129}{8}$  (d)  $x^3 + \frac{1}{x^4} - \frac{129}{8}$
59. The value of  $K$  for which  $f(x) = \begin{cases} \frac{3x+4\tan x}{x}, & \text{when } x \neq 0 \\ K, & \text{when } x = 0 \end{cases}$  is continuous at  $x = 0$  is  
 (a) 3 (b) 4  
 (c) 7 (d) None of these
60.  $\tan^{-1}\left(\frac{x}{y}\right) - \tan^{-1}\left(\frac{x-y}{x+y}\right)$  is equal to :  
 (a)  $\frac{\pi}{2}$  (b)  $\frac{\pi}{3}$   
 (c)  $\frac{\pi}{4}$  (d)  $-\frac{3\pi}{4}$
61. The bacterium that uses ammonia as a source of nitrogen is  
 (a) Rhodospirillum (b) Chlorobium  
 (c) Nitrosomonas (d) Rhizobium
62. How many turn(s) of a Calvin cycle is/are to be run to produce one glucose molecule?  
 (a) 3 (b) 1  
 (c) 2 (d) 6



63. The first stable product of  $\text{CO}_2$  fixation, in Calvin Cycle is  
 (a) OAA (b) PGAL  
 (c) 3-PGA (d) None of the above
64. In a flaccid cell, the turgor pressure is  
 (a) Greater than 1 (b) Less than 1  
 (c) Equal to 1 (d) Equal to zero
65. "Little Leaf", disease occurs in the absence of  
 (a) Cl (b) Zn  
 (c) B (d) Mg
66. The deficiency in which of the following element affects plant nitrogen metabolism by caus deficiency ?  
 (a) Chlorine (b) Copper  
 (c) Molybdenum (d) Zinc
67. The term "Karyogamy" refers to  
 (a) The fusion of protoplasm of two motile gametes (b) The fusion of protoplasm of two non-motile gametes  
 (c) The fusion of nuclei of two haploid cells (d) The fusion of two different chloroplasts
68. During the opening of stomata, the high amount of  $\text{K}^+$  ion accumulation is balanced by the : of chloride and malate. In this process, the malate is formed through the hydrolysis of :  
 (a) Glucose (b) Starch  
 (c) Cellulose (d) Pyruvate
69. "White rust of Crucifers" is caused by  
 (a) Puccinia graminis (b) Claviceps purpurea  
 (c) Albugo candida (d) Synchytrium endobioticum
70. Sex chromosomes in plants were first reported in  
 (a) Bryophytes (b) Hydrilla and Coccinia  
 (c) Melandrium (d) Elodea
71. Genetics is a branch of biology, dealing with  
 (a) Heredity in living beings (b) Variation in living beings  
 (c) Both heredity and variation (d) Structure of Chromosomes
72. A cross between plants having YYRR and yyrr composition will yield  
 (a) Round and yellow seeds (b) Round and green seeds  
 (c) Wrinkled and yellow seeds (d) Wrinkled and green seeds
73. Respiratory quotient (R.Q.) of fatty substances is generally -  
 (a) One (b) Zero  
 (c) More than one (d) Less than one

74. Cleistogamous flowers are  
 (a) Self Pollinated (b) Insect Pollinated  
 (c) Bird Pollinated (d) Wind Pollinated
75. The specialized parenchymatous cells functionally associated with sieve tube elements are known as  
 (a) Phloem parenchyma (b) Companion cells  
 (c) Phloem fibres (d) Xylem parenchyma
76. Transfer of pollen grains from the anther to stigma of another flower of the same plant is called  
 (a) Xenogamy (b) Geitonogamy  
 (c) Autogamy (d) Chasmogamy
77. Which pigment is responsible for the colour in algae belonging to Rhodophyta ?  
 (a) Chlorophyll c (b) Chlorophyll b  
 (c) Phycoerythrin (d) Fucoxanthin
78. The organisms which are restricted to a narrow range of temperatures are called  
 (a) Eurythermal (b) Euthermal  
 (c) Stenothermal (d) Mesothermal
79. Which of the following ecosystems has highest energy conversion efficiency ?  
 (a) Mixed forests (b) Sugarcane fields  
 (c) Grasslands (d) Savannah
80. 'Apple Scab' disease is caused by  
 (a) Phytophthora arecae (b) Ustilago scitamineae  
 (c) Cercospora arachidicola (d) Venturia inaequalis
81. Which of the following is the largest salivary gland in humans?  
 (a) Sub mandibular (b) Parotid  
 (c) Sublingual (d) Coxal
82. The microhabitat of which one of the following parasites is the liver only ?  
 (a) E. histolytica (b) Fasciola sp.  
 (c) Ascarsis sp. (d) Ancylostoma sp.
83. After ovulation, Graafian-follicle is transformed into  
 (a) Corpus atresia (b) Corpus albicans  
 (c) Corpus luteum (d) Corpus callosum
84. The process of transforming spermatids into spermatozoa (sperms) is called  
 (a) Spermiogenesis (b) Spermiation  
 (c) Spermatogenesis (d) Maturation



85. The leucocyte which secrete histamine, heparin & serotonin are  
 (a) Monocytes (b) Basophils  
 (c) Eosinophils (d) Lymphocytes
86. Disaccharide maltose on complete digestion yields  
 (a) Glucose + fructose (b) Fructose + galactose  
 (c) Glucose + Glucose (d) Glucose + ribulose
87. Melatonin Hormone is secreted by  
 (a) Posterior pituitary (b) Thyroid gland  
 (c) Corpus Luteum (d) Pineal gland
88. Which of the following animal possess water vascular system ?  
 (a) Obelia (b) Asterias  
 (c) Neris (d) Sycon
89. Red tide in the seas are caused by rapid multiplication of  
 (a) Diatoms (b) Slime moulds  
 (c) Nostoc (d) Gonyaulax
90. The inner lining of uterus is called  
 (a) endothelium (b) endometrium  
 (c) endomysium (d) endoneurium
91. Which of the following is a diploblastic radially symmetrical animal?  
 (a) Asterias (b) Ophiura  
 (c) Adamsia (d) Ancylostoma
92. Androgenic steroids are secreted by.  
 (a) testes and ovaries (b) Ovaries and adrenal glands  
 (c) Thymus gland and pineal gland (d) Testes and adrenal glands
93. Which of the following is an ex-situ method of biodiversity conservation ?  
 (a) Sacred groves (b) biodiversity hotspots  
 (c) biosphere reserves (d) zoological parks
94. Housefly belongs to the order  
 (a) Hemiptera (b) Diptera  
 (c) Insecta (d) Dictyoptera
95. In Porifera, the spongocoel is lined with flagellated cells called  
 (a) Porocytes (b) Choanocytes  
 (c) Myocytes (d) Spongin
96. Glisson's Capsule is a delicate connective tissue capsule covering the  
 (a) Spleen (b) Kidney  
 (c) Liver (d) Gall bladder

97. Which of the following plays an important role in blood clotting

- (a) Manganese
- (c) Chromium

- (b) Mercury
- (d) Calcium

98. Proenzyme Pepsinogen is secreted by

- (a) Chief cells
- (c) Parietal cells

- (b) Oxyntic cells
- (d) Mucus neck cells

99. The incorrect statement with regard to Sickle-cell Anaemia is

- (a) sex linked recessive trait
- (c) controlled by Single pair of Allele

- (b) an example of point mutation
- (d) caused by substitution of Glutamic acid by Valine

100. The vascular connection between the digestive tract and liver represents

- (a) Double circulation
- (c) Systemic circulation

- (b) Pulmonary circulation
- (d) Portal circulation

**ALIGARH MUSLIM UNIVERSITY, ALIGARH**  
**Answer Key Dip.In General Nursing & Midwifery Admission Test 2019-2020**  
**SERIES A**

Q.No.	Answer
1	A
2	C
3	B
4	D
5	D
6	A
7	A
8	C
9	B
10	C
11	D
12	C
13	B
14	D
15	B
16	B
17	A
18	B
19	A
20	D
21	D
22	B
23	A
24	A
25	B
26	B
27	D
28	A
29	C
30	C
31	L
32	B
33	A
34	A
35	B
36	C
37	A
38	D
39	D
40	C

Q.No.	Answer
41	C
42	B
43	C
44	D
45	B
46	B
47	A
48	A
49	A
50	C
51	C
52	D
53	B
54	C
55	B
56	B
57	A
58	A
59	C
60	C
61	C
62	D
63	C
64	D
65	B
66	C
67	C
68	B
69	C
70	C
71	C
72	A
73	D
74	A
75	B
76	B
77	C
78	C
79	B
80	D

Q.No.	Answer
81	B
82	B
83	C
84	A
85	B
86	C
87	D
88	B
89	D
90	B
91	C
92	D
93	D
94	B
95	B
96	C
97	D
98	A
99	A
100	D

**COORDINATOR**  
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