

**ANM & GNM QUESTION PAPER AND SOLUTION**

**Q1.** Filariasis or Elephantiasis is caused by which one of the following organisms?

- (a) Taenia solium
- (b) Fasciola hepatica
- (c) Wuchereria bancrofti**
- (d) Hirudinaria granulosa

**Q2.** Which one of the following is the complementary base of guanine in DNA?

- (a) Adenine
- (b) Thymined
- (c) Cytosine**
- (d) Uracil

**Q3.** At which phase of meiosis are homologous chromosomes are separated?

- (a) Prophase I
- (b) Prophase II
- (c) Anaphase I**
- (d) Anaphase II

**Q4.** Which one of the following is an example of tropic hormone?

- (a) ACTH**
- (b) Gastrin
- (c) Secretin
- (d) CCK-PZ

**Q5.** The book 'Systema Naturae' was written by

- (a) Charles Darwin
- (b) Carolus Linnaeus**
- (c) Robert Harding Whittaker
- (d) Jean Baptiste Lamarck

**Q6.** Which plant does exhibit hydrophyly?

- (a) Hydrilla sp.
- (b) Pinus sp.
- (c) Oryza sp.
- (d) Nelumbo sp.**

**Q7.** The wings of a bird and wings of an insect are

- (a) Analogous structure**
- (b) Homologous structure
- (c) Vestigial structure
- (d) Phylogenetic structure

**Q8.** Which one of the following is not a steroid hormone?

- (a) Testosterone
- (b) Progesterone
- (c) Insulin**
- (d) Estrogen

**Q9.** Which of the following is mainly associated with the maintenance of posture?

- (a) Cerebellum**
- (b) Cerebrum
- (c) Thalamus
- (d) Pons

**Q10.** The complex molecule consisting of a DNA strand and a core of histone octamer is

- (a) Centromere
- (b) Neucleosome**
- (c) Nucleotide
- (d) Chromosome

**Q11.** The most abundant lipid in a cell membrane is

- (a) Cholesterol
- (b) Glycolipid
- (c) Phospholipid**
- (d) Steriod

**Q12.** Which of the following molecules move regularly from the nucleus to the cytoplasm?

- (a) Glycogen
- (b) RNA**
- (c) DNA
- (d) Cholesterol





**Q13.** The main function of platelets is to

- (a) destroy tumour cells
- (b) produce antibodies
- (c) stop bleeding from cut wounds**
- (d) kill bacteria by phagocytosis

**Q14.** Which one of the following is an example of vitamin?

- (a) Aspartic acid
- (b) Stearic acid
- (c) Glutamic acid
- (d) Ascorbic acid**

**Q15.** The acrosome of sperm contains

- (a) DNA
- (b) Mitochondria
- (c) Fructose
- (d) Hydrolytic enzymes**

**Q16.** Which Eukaryotic organisms, among the following do not contain mitochondria?

- (a) Chara vulgaris
- (b) Monocercomonoides exilis**
- (c) Monoblepharis laevis
- (d) Marchantia polymorpha

**Q17.** In the stomach HCL is secreted by

- (a) Zymogen cells
- (b) Kupffer's cells
- (c) Oxyntic cells**
- (d) Mucous cells

**Q18.** Which Chamber of the heart has the thickest muscular wall?

- (a) Right atrium
- (b) Left atrium
- (c) Right ventricle
- (d) Left ventricle**

**Q19.** Energy is stored in the liver and muscles as

- (a) Glycogen**
- (b) Cholesterol
- (c) Starch
- (d) Fat

**Q20.** Which one of the following parts is responsible for absorption of digested food in human being?

- (a) Oesophagus
- (b) Liver
- (c) Pancreas
- (d) Small Intestine**

**Q21.** In BCG vaccine the full form of BCG is

- (a) Bacillus Calmodulin Guanine
- (b) Bacillus Calmette Guerin**
- (c) Bacillus Clostridium Gonococci
- (d) Bordetella Clostridium Guerin

**Q22.** Which of the following plant hormones is responsible for bolting phenotype?

- (a) Cytokinin
- (b) Auxin
- (c) Gibberellin**
- (d) IAA

**Q23.** Which of the following pigments is found in the skin of human body?

- (a) Anthocyanin
- (b) Cyanidin
- (c) Melanin**
- (d) Opsin

**Q24.** What is the type of nucleic acid found in HIV?

- (a) ss DNA
- (b) ds DNA
- (c) ss RNA**
- (d) ds RNA

**Q25.** Leaves of which of the following dicotyledonous plants show parallel venation?

- (a) Magnifera indica
- (b) Calotropis procera
- (c) Calophyllum inophyllum**
- (d) Ixora sp.

**Q26.** If heterozygous offspring is crossed with homozygous recessive parent, then this phenomenon is called

- (a) Back cross
- (b) Test cross**
- (c) Reciprocal cross
- (d) Epistasis



**Q27.** Which of the following molecules is glucose?

- (a) C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>
- (b) C<sub>3</sub>H<sub>5</sub>OH
- (c) C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>**
- (d) C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>

**Q28.** To which part of the chromosome nucleolus is attached?

- (a) Chromomere
- (b) Telomere
- (c) Primary constriction
- (d) Secondary constriction**

**Q29.** ABO blood group of human was discovered by

- (a) Carl Woese
- (b) Karl Landsteiner**
- (c) Karl Fischer
- (d) Karl Pearson

**Q30.** Example of Ex-Situ conservation is

- (a) National Park
- (b) Reserve Forest
- (c) Seed bank**
- (d) Sanctuary

**Q31.** Which of the following white blood cell or cells is/are known as agranulocytes?

- (a) Basophil
- (b) Monocyte**
- (c) Neutrophil
- (d) Lymphocytes**

**Q32.** Which of these are false fruits?

- (a) Banana
- (b) Tomato
- (c) Apple**
- (d) Strawberry**

**Q33.** Which of the following are not present in prokaryotic cell?

- (a) Nucleus**
- (b) Nuclear Membrane
- (c) Ribosome
- (d) Nucleoid Material

**Q34.** Which of the following statements are not correct?

- (a) ADH is a peptide hormone
- (b) Thyroxin increases the BMR of the body
- (c) Prolactin helps in digestion**
- (d) Somatotrophic hormone helps in reproduction**

**Q35.** Which of the following character(s) is/are present in Z- DNA?

- (a) Left- handed helix**
- (b) Formed in high salinity
- (c) 12 base pairs per turn**
- (d) Helix pitch 34 Å**

**Q36.** Which among the following cell types in xylem tissue is/are dead?

- (a) Tracheids**
- (b) Tracheae**
- (c) Xylem fibres**
- (d) Xylem Parenchyma

**Q37.** In human, deficiency of Calciferol leads to

- (a) Night- blindness
- (b) Beri Beri
- (c) Rickets**
- (d) Osteomalacia**

**Q38.** Which of the following is/are viral disease(s)?

- (a) AIDS**
- (b) Tetanus
- (c) Influenza**
- (d) Pneumonia

**Q39.** The salient features of phylum Chordata are

- (a) Presence of Stomochord
- (b) Presence of Notochord**
- (c) Presence of dorsal hollow tubular nerve cord**
- (d) Presence of Pharyngial gill slits**

**Q40.** Which among the following is / are coenzymes?

- (a) FADH**
- (b) Mg<sup>2+</sup>
- (c) Mn<sup>2+</sup>**
- (d) Vitamin A



**Q41.** Which of the following statements is true for  $H_2S$ ?

- (a) It is a strong base.
- (b) It is a neutral.
- (c) It is a mild acid.**
- (d) It is a strong acid.

**Q42.** The solubility of common salt in water at  $100^\circ C$  is 40. Approximately how much common salt is required to make 100 g of saturated solution at  $100^\circ C$ ?

- (a) 28.57 g
- (b) 40 g**
- (c) 35 g
- (d) 20 g

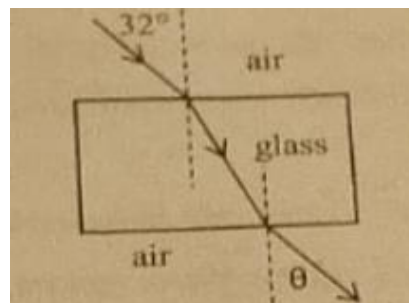
**Q43.** Milk is a

- (a) saturated solution
- (b) supersaturated solution
- (c) colloid**
- (d) suspension

**Q44.** Sulphuric acid is:

- (a) mono-basic
- (b) di-basic**
- (c) tri-basic
- (d) tetra-basic

**Q45.**



As shown in the figure, a ray of light coming from air is incident on a parallel glass slab at an angle of  $32^\circ$  and emerges from the other side at an angle of  $\theta$ . What is the value of  $\theta$  if refracting index with respect of air is 1.5?

- (a)  $32^\circ$**
- (b)  $48^\circ$
- (c)  $72^\circ$
- (d)  $49.5^\circ$

**Q46.** How much heat is required to melt 100g of ice kept at  $0^\circ C$  into water and fully convert it into steam? (Latent heat of melting of ice, specific heat of water and latent heat of vaporization of water are respectively  $80 \text{ cal/g}^\circ C$  and  $540 \text{ cal/g}$ )

- (a) 72 kcal**
- (b) 10 kcal
- (c) 18 kcal
- (d) 64 kcal

**Q47.** A vessel is filled to the brim by a liquid. It is observed that the vessel always remains filled to the brim even if it is heated or cooled. What is the coefficient of real expansion of the liquid if the coefficient of linear expansion of the material of the vessel is ' $\alpha$ '?

- (a)  $\alpha$
- (b)  $\alpha/2$
- (c)  $2\alpha$
- (d)  $3\alpha$**

**Q48.** GPS Stands for

- (a) Global Poles System
- (b) Global Poly-Silicon Store
- (c) Global Positioning System**
- (d) Global Position Structure



**Q49.** The principal constituent of the atmosphere of the Earth is

- (a) Oxygen
- (b) Carbon
- (c) Hydrogen
- (d) Nitrogen**

**Q50.** Product of force and velocity is called

- (a) Work
- (b) Power**
- (c) Energy
- (d) Momentum

**Q51.** 1 nanometer =?

- (a)  $10^{-3}$
- (b)  $10^{-6}$
- (c)  $10^{-9}$**
- (d)  $10^{-12}$

**Q52.** Which one helps to define force?

- (a) Newton's 3<sup>rd</sup> law of motion
- (b) The theory of relativity
- (c) Newton's 1<sup>st</sup> law of motion**
- (d) Archimedes' principle

**Q53.** 1 GB memory is approximately \_\_\_\_\_ times larger than 1 MB memory.

- (a) 10
- (b) 1000**
- (c) 100
- (d) 2

**Q54.** LPG used as domestic cooking gas is composed mainly of

- (a) Propane and butane**
- (b) Methane
- (c) Natural Gas
- (d) Acetylene

**Q55.** Which of the following is the main component of baking powder?

- (a)  $\text{NaHCO}_3$**
- (b)  $\text{NaCO}_3$
- (c) NaCl
- (d) HCl

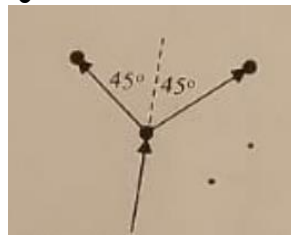
**Q56.** If a ball is released to ground from any height,  
(a) When it hits the ground, its potential energy is minimum and kinetic energy is maximum.

(b) At any point during its fall the total energy remains constant.

(c) At point of during its fall, it has both potential energy and kinetic energy.

(d) When it reaches the ground, its potential energy is maximum.

**Q57.**



If a cracker thrown vertically upwards bursts into two pieces; one piece flies to right with an angle  $45^\circ$  to the vertical; the other piece flies to left with the same angle to the vertical as shown in the figure. This is primarily due to.

- (a) Newton's 1<sup>st</sup> law of motion.
- (b) Conservation of momentum.**
- (c) Acceleration due to the gravity.
- (d) Sound produced by the cracker.

**Q58.** Steam causes more severe burn injury than boiling water because,

- (a) Steam attacks human body with more force.
- (b) Steam contains more heat than boiling water of same mass.**
- (c) Steam is a vapour.
- (d) Steam is hotter than boiling water.

**Q59.** Which of the following statements are true?

- (a) Liquids and gases have fixed volume but no fixed shape.
- (b) Solids have fixed volume and shape.**
- (c) Solids never diffuse in each other.
- (d) Gases do not have any fixed shape.**

**Q60.** When a balloon is blown with air and its mouth is tied,

- (a) All air molecules inside become fixed in their positions.
- (b) There will be empty spaces between those air molecules.**





(c) Those air molecules keep moving randomly and often hit the balloon surface from inside.

(d) The air inside becomes solid.

**Q61.** Choose the word, which can most appropriately replace the italicized words in the sentence –

A person can be sentenced to death for *killing another human being*.

(a) patricide

(b) homicide

(c) genocide

(d) fratricide

**Q62.** Choose the most effective word to fill in the blank to make the sentence meaningfully complete.

Some people \_\_\_\_\_ themselves into believing that they are indispensable to the organization they work for.

(a) force

(b) delude

(c) keep

(d) ask

**Q63.** Choose the most effective word to fill in the blank to make the sentence meaningfully complete.

His \_\_\_\_\_ of the subject was so good that students had very few questions to raise.

(a) exposition

(b) clarity

(c) disposing

(d) exposure

**Q64.** Choose the most effective word to fill in the blank to make the sentence meaningfully complete.

Those who have well \_\_\_\_\_ their transition from village life to city life have prospered.

(a) managed

(b) taken

(c) tried

(d) finalised

**Q65.** Choose the most effective word to fill in the blank to make the sentence meaningfully complete.

This is the \_\_\_\_\_ chosen for the school to come up.

(a) site

(b) sight

(c) plot

(d) area

**Q66.** Choose the most appropriate pair of words from the options given below to fill in the blanks in the given sentence in the same order to make the sentence meaningfully complete.

The \_\_\_\_\_ imposed for non-payment was too \_\_\_\_\_ for it to bring in any improvement.

(a) penalty, low

(b) toll, simple

(c) punishment, harsh

(d) fine, severe

**Q67.** Choose the most appropriate pair of words from the options given below to fill in the blanks in the given sentence in the same order to make the sentence meaningfully complete.

We are \_\_\_\_\_ to have him \_\_\_\_\_ here to make this function a great success.

(a) pleased, over

(b) happy, lie

(c) proud, leave

(d) sorry, over

**Q68.** Fill in the blank with the most appropriate word/group of words to make the sentence meaningfully complete.

We should not be indifferent \_\_\_\_\_ the sufferings of our fellow men.

(a) of

(b) to

(c) from

(d) at

**Q69.** Choose the word, which has nearly the same meaning as OBLIGATORY.

(a) Agreeable

(b) Required

(c) Stubborn

(d) Useful

**Q70.** Choose the word, which has nearly the same meaning as EXUDE.

(a) Drop

(b) Ooze

(c) Overflow

(d) Evaporate



**Q71.** Choose the word, which is opposite in meaning to IMPOUND.

- (a) Compound
- (b) Generate
- (c) Dollar
- (d) Release**

**Q72.** Choose the word, which is opposite in meaning to CHIDE.

- (a) Request
- (b) Criticise
- (c) Advocate
- (d) Praise**

**Q73.** Pick out the word that has either nearly the same meaning or opposite meaning to EXONERATE.

- (a) Escalate
- (b) Admit
- (c) Accuse**
- (d) Reject

**Q74.** Choose the word that can replace both the words in the Italics in the two given sentences.

I. The management did not find him *suitable* for the job of a clerk.

II. Akash could not *arrange* all parts of the machine properly.

- (a) fit**
- (b) employ
- (c) finish
- (d) adjust

**Q75.** Observe the two Italicized words in the following two sentences and give your observation by choosing any one option below.

I. I am indebted to my friend's wise *council*.

II. Some members of *council* walked out of the meeting.

- (a) Only sentence-I is correct.**
- (b) Only sentence-II is correct.
- (c) Both sentence I and II are correct.
- (d) Neither sentence I nor sentence II is correct.

**Q76.** A pump can fill water in a tank at 2100 liters per hour. Then how many hours does it take to fill a reservoir at length 7 m, breadth 5 m and height 30 decimeter?

- (a) 5 hours
- (b) 50 hours**
- (c) 60 hours
- (d) 500 hours

**Q77.** A and B are two solid spheres. The total surface area of B is 4 times of total surface area of A. Then the ratio of the volume of A and B is

- (a) 1:4
- (b) 4:1
- (c) 1:8**
- (d) 8:1

**Q78.** The ratio of the height and transverse height of a cylindrical cone is 4:5, then the ratio of the transverse height and the radius of the base is

- (a) 5:3**
- (b) 3:5
- (c) 7:5
- (d) 5:7

**Q79.** The square root of the product of two roots of the quadratic equation  $x^2 - 6x + 4 = 0$  is

- (a) 2**
- (b) 4
- (c) 16
- (d)  $3 + \sqrt{5}$

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**Q80.** If the difference between two roots of a quadratic equation is 3 and the constant term is 4. Then the equation is:

- (a)  $x^2 - 5x + 4 = 0$
- (b)  $x^2 - 3x + 4 = 0$
- (c)  $x^2 - 5x - 4 = 0$
- (d)  $x^2 - 3x - 4 = 0$

**Q81.** The sides of a triangle are 3 cm, 4 cm and 5 cm. Then area of its circumcircle is

- (a)  $5 \text{ cm}^2$
- (b)  $14 \text{ cm}^2$
- (c)  $\frac{275}{14} \text{ cm}^2$
- (d)  $\frac{175}{7} \text{ cm}^2$

**Q82.** At what rate of simple interest an amount of money will double in 4 years?

- (a) 16%
- (b) 25%
- (c) 50%
- (d) 64%

**Q83.** Find simple interest on Rs. 3000 at 6% per annum from 1<sup>st</sup> January to 26<sup>th</sup> May, in 2005.

- (a) Rs. 36
- (b) Rs. 48
- (c) Rs. 60
- (d) Rs. 72

**Q84.** Ramesh Babu sold a clock at Rs. 300 and incurred a loss of 25%. If he would have to make a profit of 16% then at how much higher price, he should have sold the clock?

- (a) Rs. 164
- (b) Rs. 173
- (c) Rs. 185
- (d) Rs. 187

**Q85.** Two cubes of edges 4 cm are placed side by side to form a rectangular cube. What is the length of the diagonal of this larger rectangular cube?

- (a)  $4\sqrt{3} \text{ cm}$
- (b)  $4\sqrt{6} \text{ cm}$
- (c) 12 cm
- (d)  $12\sqrt{3} \text{ cm}$

**Q86.** Naval staff in a submarine can see objects at the face of water with a

- (a) Stethoscope
- (b) Periscope
- (c) Kaleidoscope
- (d) Telescope

**Q87.** Which of the following musical instruments is played by Amjad Ali

- (a) Veena
- (b) Tabla
- (c) Sarod
- (d) Sitar

**Q88.** The hottest planet in the solar system?

- (a) Mercury
- (b) Venus
- (c) Mars
- (d) Jupiter

**Q89.** Exposure to sunlight helps a person improve his health because

- (a) resistance power increases.
- (b) the infrared light kills bacteria in the body.
- (c) the ultraviolet rays convert skin oil into Vitamin - D
- (d) the pigment cells in the skin get stimulated and produce a healthy tan

**Q90.** Fire temple is the place of worship of which of the following religion?

- (a) Buddhism.
- (b) Shintoism
- (c) Christianity.
- (d) Zoroastrianism (Parsi Religion)

**Q91.** The United Nations Organization has its Headquarters at

- (a) Delhi
- (b) London
- (c) New York
- (d) Moscow

**Q92.** The 'Lady with the Lamp' was the name given to?

- (a) Sister Nivedita
- (b) Queen Elizabeth
- (c) Florence Nightingale
- (d) Princess Diana





Q93. "The Great Barrier Reef is in which country?

- (a) China  
(b) Australia  
(c) Ireland  
(d) Singapore

Q94. Of the following diseases which one is caused by insect bite?

- (a) Dengue  
(b) Scurvy  
(c) Pneumonia  
(d) Asthma

Q95. Which of the following is the largest air pollutant?

- (a) Carbon dioxide  
(b) Carbon monoxide  
(c) Sulphur dioxide  
(d) Hydrocarbons

Q96. Which of the following relations is most analogous to LIGHT : CANDLE?

- (a) Exercise : Strength  
(b) Car : Engine  
(c) Dieting : Overweight  
(d) Power : Battery

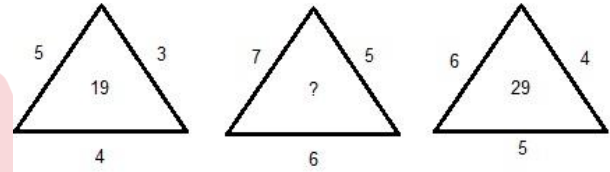
Q97. How is David's father's only daughter-in-law's son's wife related to David?

- (a) Daughter  
(b) Daughter-in-law  
(c) Niece  
(d) Granddaughter

Q98. 36, 34, 30, 28, 24, ..... What number should come next?

- (a) 20  
(b) 22  
(c) 23  
(d) 26

Q99. Find the missing terms.



- (a) 25  
(b) 37  
(c) 41  
(d) 47

Q100. 6, 11, 21, 36, 56, ?

- (a) 42  
(b) 51  
(c) 81  
(d) 91

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