NEET Merit Scholarship Test (MEDICAL)

for students presently in **Class X**

Paper-1

(SAMPLE PAPER)

Time: 3 Hours (9:00 am – 12:00 pm) | **CODE** | ***Maximum Marks: 536***

Instructions:

1. **You are advised to devote 50 Minutes on Section-I, 90 Minutes on Section-II and 40 Minutes on Section-III.**
2. **This Question paper consists of 3 sections. Marking scheme is given in table below:**

Section	Subject	Question no.	Marking Scheme for each question	
			correct answer	wrong answer
SECTION – I	APTITUDE	1 to 30	**+4**	**-1**
SECTION – II	PHYSICS (PART-A)	1 to 12	**+4**	**-1**
	CHEMISTRY (PART-B)	13 to 24	**+4**	**-1**
	BIOLOGY (PART-C)	25 to 48	**+4**	**-1**
SECTION – III	PHYSICS (PART-A)	1 to 14	**+4**	**-1**
	CHEMISTRY (PART-B)	15 to 28	**+4**	**-1**
	BIOLOGY (PART-C)	29 to 56	**+4**	**-1**

3. Answers have to be marked on the OMR sheet. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
4. Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
5. Before attempting paper write your Registration Number, Name and Test Centre in the space provided at the bottom of this sheet

Note: Please check this Question Paper contains all **3** sections and **134** questions. If not so, exchange for the correct Question Paper

Registration Number : _____

Name of the Candidate : _____

Test Centre : _____

Recommended Time: 50 Minutes for Section – I

APTITUDE TEST

This section contains 30 ***Multiple Choice Questions*** *number* ***1 to 30****. Each question has 4 choices (A), (B), (C) and (D), out of which* ***ONLY ONE*** *is correct.*

1. Which letter in the word 'SELFRIGHTEOUSNESS' does not change its position when the letters are reversed?
   (A) E (B) G
   (C) H (D) T

2. If it is possible to form a word with the first, fourth, seventh and eleventh letters in the word "SUPERFLUOUS" write the first letter of that word. Otherwise x is the answer.
   (A) S (B) L
   (C) E (D) X

3. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?
   (A) East (B) west
   (C) north (D) south

4. If South-East becomes North, North-East becomes West and so on. What will West become?
   (A) North east (B) north west
   (C) south east (D) south west

5. Find the mirror image
   INFORMATIONS
   [1] INFORMATIONS [2] SNOITAWROFNI
   [3] SNOITAWROFNI [4] SNOITAMROFNI
   (A) 1 (B) 2
   (C) 3 (D) 4

6. Find the water image
   SERVICE
   (A) ƎƆIVRƎS (B) SƎRVICE
   (C) SERVICE (D) ECIVRES

7. 664, 332, 340, 170, ____, 89, ... What number should fill the blank?
   (A) 85 (B) 97
   (C) 109 (D) 178

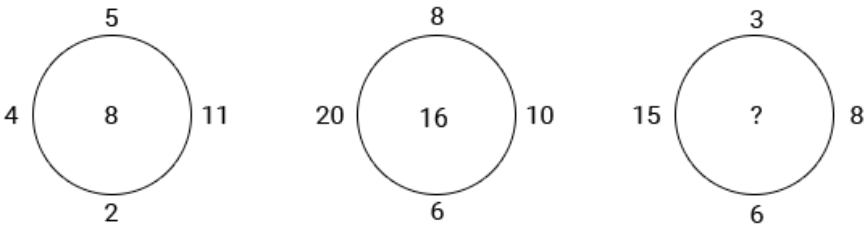
8. 4, 7, 25, 10, __, 20, 16, 19, ... What number should fill the blank?
   (A) 13 (B) 15
   (C) 20 (D) 28

9. Priya and Divya are ranked seventh and twelfth respectively from the top in a class of 35 students. What will be their respective ranks from the bottom in the class?
   (A) 24th and 28th (B) 29th and 24th
   (C) 28th and 23rd (D) 29th and 34th

10. Charu correctly remembers that her father,s birthday is after 24 but before 29 of May. Her sister remembers that their father's birthday is after 27 but before 31 May and her brother remembers that the birthday is on an even date. On which date in May is definitely their father‟s birthday?
    (A) 26th (B) 28th
    (C) 30th (D) Data inadequate

11. If A means 'plus', B means 'minus', C means 'divided by' and D means 'multiplied by', then 18 A 12 C 6 D 2 B 5 = ?
(A) 15 (B) 25
(C) 27 (D) none of these

12.



(A) 5 (B) 6
(C) 14 (D) 8

13. It being given that : > denotes +, < denotes -, + denotes / (division), – denotes =, = denotes less than' and x denotes 'greater than', find which of the following is a correct statement.
(A) 3 + 2 > 4 < 9 + 3 < 2 (B) 3 > 2 > 4 = 18 + 3 < 1
(C) 3 > 2 < 4 x 8 + 4 < 2 (D) 3 + 2 < 4 x 9 + 3 < 3

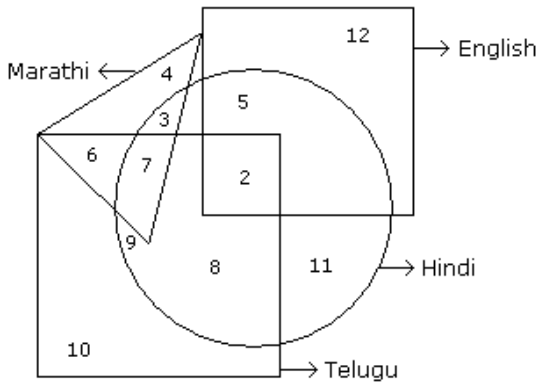
14. If Anand is the brother of Bimala; Bimala is the sister of Chetan; and Chetan is the father of D, how D is related to Anand?
(A) Brother (B) Niece
(C) sister (D) can't be determined

15. Karan's father's brother's daughter's husband's mother-in-law is related to Karan as
(A) Aunt (B) sister
(C) mother (D) can't be determined

16. The following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 and 5 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (D).

(A) 1 (B) 2
(C) 3 (D) 4

Directions (Q. No. 17 to 19) In the following figure small square represents the persons who know English, triangle to those who know Marathi, big square to those who know Telugu and circle to those who know Hindi. In the different regions of the figures from 17 to 19 are given.



17. How many persons can speak English and Hindi both the languages only ?
(A) 5 (B) 8
(C) 7 (D) 18

18. How many persons can speak Marathi and Telugu both ?
(A) 10 (B) 11
(C) 13 (D) None of these

.

19. How many persons can speak only English?
(A) 9 (B) 12
(C) 7 (D) 19

20. Find the missing term in the series. SCD, TEF, UGH, ____, WKL
(A) CMN (B) UJI
(C) VIJ (D) IJT

21. If 'diamond' is called 'gold', 'gold' is called 'silver', 'silver' is called 'ruby' and 'ruby' is called 'emerald', which is the cheapest jewel?
(A) Diamond (B) Silver
(C) Gold (D) Ruby

22. Choose the box that is similar to the box formed from the given sheet of paper (X).

(A) 1 only (B) 1, 2 and 3 only
(C) 2 and 3 only (D) 1, 2, 3 and 4

23. Choose the box that is similar to the box formed from the given sheet of paper (X).

(A) 1 and 3 only (B) 2 and 4 only
(C) 3 and 4 only (D)1 and 4 only

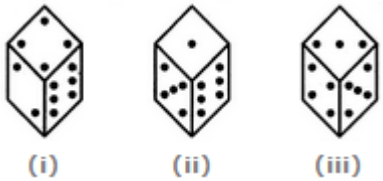
Directions (Q. No. 24 to 26) Eight boxes D to K are placed one above other in the form of a stack. Box H is two places below Box D and four places above Box E. Number of boxes below Box J is as same as the number of boxes above Box F. Only one box is placed between Box J and Box G. Box K is placed at one of the position above Box I. No two boxes with consecutive alphabets are placed adjacent to each other.

24. Which box is exactly placed between D and the box which is immediately above of K?
(A) J (B) H
(C) E (D) F

25. How many boxes are between J and I?
(A) 2 (B) 4
(C) 3 (D) 1

26. Which of the following statement is true?
(A) F is placed three boxes below J (B) G is placed immediately above D.
(C) Only two boxes are placed between E and I. (D) Both A and B.

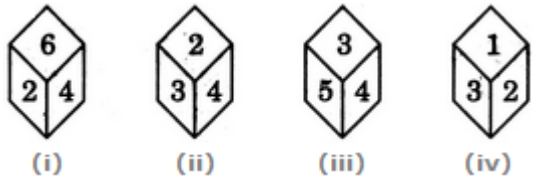
27. Three different positions of a dice are shown below. How many dots lie opposite 2 dots?



(i) (ii) (iii)

(A) 1 (B) 3
(C) 5 (D) 6

28. A dice is thrown four times and its four different positions are shown below. Find the number on the face opposite the face showing 2.



(i) (ii) (iii) (iv)

(A) 3 (B) 4
(C) 5 (D) 6

Directions (Q.No.29 to 30) In each question below are given two statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer

(A) If only conclusion (I) follows (B) If only conclusion (II) follows
(C) If both (I) and (II) follows (D) If neither (I) nor (II) follows

29. Statements: All poets are authors
All singers are authors
Conclusions: I. All singers are poets
II. Some authors are not singers

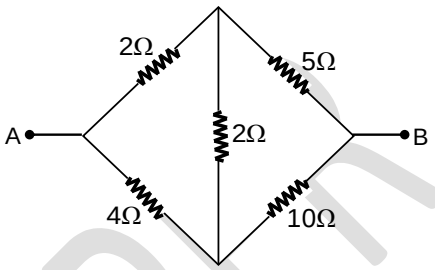
30. Statements: Most crops are machines
Some machines are fools
Conclusions: I. Some fools are machines
II. Some crops are fools

Recommended Time: 90 Minutes for Section – II

PHYSICS – (PART – A)

This part contains 12 ***Multiple Choice Questions*** *number 1* ***to 12.*** *Each question has 4 choices (A), (B), (C) and (D), out of which* ***ONLY ONE*** *is correct.*

1. Find the equivalent resistance of the circuit across A and B



(A) $\frac{14}{3}\Omega$ (B) $\frac{9}{3}\Omega$ (C) $\frac{7}{3}\Omega$ (D) $\frac{4}{3}\Omega$

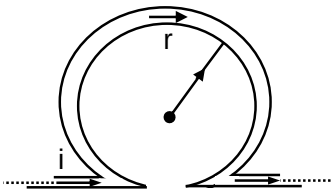
2. When electric current is passed through a conductor, electrons move from:
(A) high potential to low potential. (B) low potential to high potential.
(C) in the direction of the electric current. (D) None of these

3. In a circuit containing two unequal resistors connected in parallel
(A) The current is the same in both the resistors
(B) A large current flows though the large resistor
(C) The voltage drop across both the resistances is the same
(D) The smaller resistance has smaller conductance

4. A wire is drawn into double its length and $\frac{1}{4}$th of its original cross – section. What will be its new resistance
(A) Increases to 8 times (B) decreases by 3 times
(C) Increases to 4 times (D) decreases by 2 times

5. A vertical straight conductor carries a current vertically upwards. A point P lies to the east of it at a small distance and another point Q lies to the west at the same distance. The magnetic field at P is
(A) Greater than at Q
(B) Same as at Q
(C) Less than at Q
(D) Greater or less than at Q depending upon the strength of the current

6. An infinitely long straight conductor is bent into the shape as shown in the figure. It carries a current of i ampere and the radius of the circular loop is r metre. Then the magnetic induction at its centre will be



(A) $\frac{\mu_0 2i}{4\pi r}(\pi+1)$ (B) $\frac{\mu_0 2i}{4\pi r}(\pi-1)$ (C) Zero (D) Infinite

7. A uniform electric field and a uniform magnetic field are produced, pointing in the same direction. If an electron is projected with its velocity pointing in the same direction
(A) The electron will turn to its right
(B) The electron will turn to its left
(C) The electron velocity will increase in magnitude
(D) The electron velocity will decrease in magnitude

8. Two particles X and Y having equal charges, after being accelerated through the same potential difference, enter a region of uniform magnetic field and describe circular path of radius R_1 and R_2 respectively. The ratio of mass of X to that of Y is

(A) $\left(\frac{R_1}{R_2}\right)^{1/2}$ (B) $\frac{R_2}{R_1}$

(C) $\left(\frac{R_1}{R_2}\right)^{2}$ (D) $\frac{R_1}{R_2}$

9. If V be the change in potential between two neighbhouring points r apart, the electric field E is

(A) $E = \Delta V \times \Delta r$ (B) $E = \frac{\Delta V}{\Delta r}$

(C) $E = \frac{\Delta r}{\Delta V}$ (D) $E = \frac{(\Delta V)^2}{\Delta r}$

10. A fuse wire is generally made of
(A) silver (B) tin-lead alloy
(C) copper (D) either (A) or (B)

11. One of the refracting surfaces of a prism of angle 30^0 is silvered. A ray of light incident at angle of 60^0 retraces its path.The refractive index of the material of prism is
(A) $\sqrt{2}$ (B) $\sqrt{3}$
(C) $3/2$ (D) 2

12. An object 15cm high is placed 10cm from the optical centre of a thin lens. Its image is formed 25cm from the optical centre on the same side of the lens as the object. The height of the image is
(A) 2.5 cm (B) 0.2 cm
(C) 16.7 cm (D) 37.5 cm

CHEMISTRY – (PART – B)

*This part contains 12 **Multiple Choice Questions** number 13 **to 24.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

13. Arrange the following in the increasing order of oxidation state of Mn
(i) Mn^{+2} (ii) MnO_2 (iii) $KMnO_4$ (iv) K_2MnO_4
(A) (i) > (ii) > (iii) > (iv) (B) (i) < (ii) < (iv) < (iii)
(C) (ii) < (iii) < (i) < (iv) (D) (iii) < (i) < (iv) < (ii)

14. Which of the following are exothermic processes?
(i) Reaction of water with quick lime
(ii) Dilution of an acid
(iii) Evaporation of water
(iv) Sublimation of camphor (crystals)
(A) (i) and (ii) (B) (ii) and (iii)
(C) (i) and (iv) (D) (ii) and (iv)

15. Essential constituent of amalgam is
(A) An alkali metal (B) Silver
(C) Mercury (D) Iron

16. When Ag is exposed to air it gets a black coating of
(A) $AgNO_3$ (B) Ag_2S
(C) Ag_2O (D) Ag_2CO_3

17. Which of the following species can be a bronsted base?
(A) CH_3^+ (B) H_2S
(C) CH_4 (D) O^{2-}

18. Metals are extracted from their ores by
(A) Oxidation processes (B) Reduction process
(C) Decomposition processes (D) All of the above

19. Froth floatation technique is used for
(A) Oxide ores (B) Sulphide ores
(C) Magnetic ores (D) Carbonate ores

20. Formula of Gypsum is
(A) $CaSO_4$ (B) $CaSO_4$ .1/2 H_2O
(C) $CaSO_4$ .H_2O (D) $CaSO_4$. 2H_2O

21. The conjugate base of H_3BO_3 is?
(A) H_3BO_3 (B) $B(OH)_4^-$
(C) $H_3BO_3^{2-}$ (D) $H_4BO_3^+$

22. The conjugate base of ammonia is :
(A) NH_4^+ (B) NH_2^-
(C) NH_3 (D) Both a and b

23. Lother –Meyer graph of the elements classification is atomic weight Vs atomic
(A) number (B) Atomic charge
(C) number of moles (D) volume

24. According to mendeleev's classification, the physical and chemical properties of elements are periodic function of their atomic
(A) Number (B) Mass
(C) number of moles (D) isotopes

BIOLOGY – (PART – C)

*This part contains **24 Multiple Choice Questions** number 25 **to 48.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

25. The kidneys resemble contractile vacuoles of amoeba in
(A) Expelling out excess water (B) Expelling out glucose
(C) Expelling out urea and uric acid (D) Expelling out salts

26. In plants, stomatal apparatus includes
(A) Stoma and guard cells (B) Stoma and subsidiary cells
(C) Stoma, guard cells and subsidiary cells (D) Guard cells and subsidiary cells

27. The process of transpiration in plants help in
(A) Opening of stomata (B) Absorption of CO_2 from atmosphere
(C) Upward conduction of water and minerals (D) Absorption of O_2 from atmosphere

28. Hormone that plays an important role in regulation of BMR
(A) Parathormone (B) Thyroxine
(C) Insulin (D) Cortisol

29. Excretion in Earthworm is carried out with the help of?
(A) Solenocytes (B) Flame cells
(C) Nephridia (D) Malpighian tubules

30. Afferent neurons carry impulses
(A) Towards muscles and glands (B) Away from central nervous system
(C) Towards central nervous system (D) Both (A) and (B)

31. Which of the following is considered as a complete protein food?
(A) Almond (B) Soya bean
(C) Cashew nut (D) Horse gram

32. Conversion of excess amino acids into urea occur in
(A) Lungs (B) Large intestine
(C) Liver (D) Kidney

33. The main nitrogen containing waste excreted in urine is
(A) Nucleotides (B) Ammonia
(C) Creatine phosphate (D) Urea

34. Find the incorrect match:
(A) Vitamin B_3 – Niacin (B) Vitamin A – Retinol
(C) Vitamin D – Tocopherol (D) Vitamin B_{12} – Cyanocobalamin

35. Respiration is
(A) Anabolic process (B) Physical Process
(C) Catabolic process (D) Bio physical process

36. Excretion of nitrogenous wastes mainly as uric acid by birds is helpful for:
(A) Conservation of body water (B) Eliminating excess body water
(C) Eliminating excess body heat (D) Conserving body heat

37. The process of the escape of liquid from the tip of uninjured leaf or through Hydathodes is called:
(A) Guttation (B) Transpiration
(C) Evaporation (D) None of the above

38. Vitamin D in human body is produced in
(A) Nerves (B) Muscles
(C) Skin (D) None of these

39. Which of the following vitamins is called anti sterility vitamin?
(A) Vitamin – E (B) Vitamin – C
(C) Vitamin – D (D) Vitamin – A

40. Roots of the plants absorb water from the soil through the process of
(A) Diffusion (B) Transportation
(C) Osmosis (D) None of these

41. Which one of the following mineral element is required for the muscle contraction?
(A) Iron (B) Zinc
(C) Sodium (D) Calcium

42. Thermostat of body is
(A) Hypothalamus (B) Cerebrum
(C) Cerebellum (D) Medulla oblongata

43. Among the following 'nutrients', milk is a poor source of
(A) Calcium (B) Vitamin – C
(C) Carbohydrate (D) Protein

44. Quantasomes are found in
(A) Nuclear membrane (B) Lysosome
(C) Thylakoid membrane of chloroplast (D) Cristae of mitochondrion

45. Reflexes like coughing sneezing vomiting are under the coordination of
(A) Cerebrum (B) Cerebellum
(C) Spinal cord (D) Medulla oblongata

46. Among the following 'nutrients', milk is a poor source of
(A) Calcium (B) Vitamin – C
(C) Carbohydrate (D) Protein

47. Damage of the following organ leads to the accumulation of nitrogenous wastes in the body:
(A) Heart
(B) Lungs
(C) Kidneys
(D) Digestive system

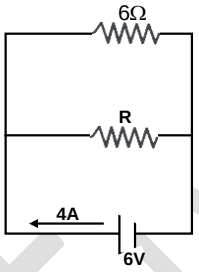
48. Movement of the following ion into the guard cells make the water to move into guard cells and finally makes the stomata to open for gaseous exchange
(A) Magnesium (B) Manganese
(C) Potassium (D) Iron

Recommended Time: 40 Minutes for Section – III

PHYSICS – (PART – A)

*This part contains **14 Multiple Choice Questions** number 1 **to 14.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

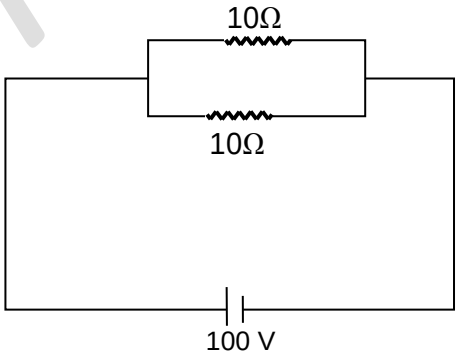
1. If the current in the circuit above is 4A, then the power generated by resistor R is



(A) 6W (B) 18W
(C) 24W (D) 7W

2. Electrical resistivity of any given metallic wire depends upon
(A) its thickness (B) its shape
(C) nature of the material (D) its length

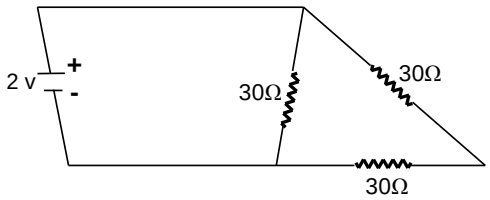
3. Find the total current 'I' supplied by battery in the circuit shown in the figure. ?



(A) 10 A (B) 20 A
(C) 30 A (D) 40 A

4. What is the rate of flow of electric charges called?
(A) Electric potential (B) electric resistance
(C) Electric current (D) none of these

5. The current I supplied by battery in the circuit is



(A) $\frac{1}{15}$A (B) $\frac{1}{45}$A
(C) $\frac{1}{5}$A (D) $\frac{1}{10}$A

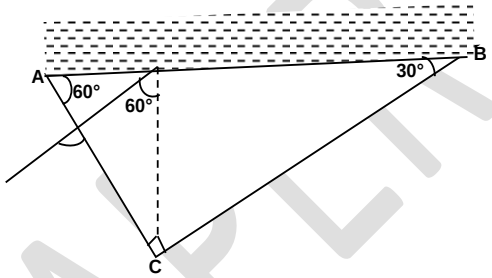
6. An α particle and a proton travel with same velocity in a magnetic field perpendicular to the direction of their velocities. Find the ratio of the radii of their circular path
(A) 4 : 1 (B) 1: 4 (C) 2: 1 (D) 1 : 2

7. A soft iron bar is inserted inside a current-carrying solenoid. The magnetic field inside the solenoid:
   (A) Will decrease (B) Will increase
   (C) Will become zero (D) Will remain the same

8. The force exerted on a current carrying wire placed in a magnetic field is zero when the angle between wire and the direction of magnetic field is:
   (A) 45° (B) 60° (C) 90° (D) 180°

9. A convex lens forms an images of an object placed 20cm away from it at a distance of 20cm on the other side of the lens. If the object is moved 5 cm towards the lens, the image will be
   (A) 5cm towards the lens (B) 5cm away from the lens
   (C) 10cm towards the lens (D) 10cm away from the lens

10. ACB is right angled prism with other angles as 60^0 and 30^0. Refractive index of the prism is 1.5, AB has thin layer of liquid on it as shown. Light falls normally on the face AC. For total internal reflections, maximum refractive index of the liquid is
    (A) 1.4 (B) 1.3
    (C) 1.2 (D) 1.6



11. A glass prism has refractive index $\sqrt{2}$ and refracting angle 30^0. One of the refracting surface of the prism is silvered. A beam of monochromatic light will retrace it path if its angle of incidence on the unsilvered refracting surface of the prism is
    (A) 0 (B) $\frac{\pi}{6}$ (C) $\frac{\pi}{4}$ (D) $\frac{\pi}{3}$

12. Two point sources S_1 and S_2 and 24cm apart. Where should a convex lens of focal length 9cm be placed in between them so that the images of both sources are formed at the same place?
    (A) 6cm from S_1 (B) 16 cm from S_1
    (C) 10cm from S_1 (D) 12cm from S_1

13. Light of wavelength 500nm travelling with a speed of $2.0\times10^8\ ms^{-1}$ in a certain medium enters another medium of refractive index 5/4 times that of the first medium. What are the wavelength and speed in the second medium?

Wavelength (nm)	Speed (ms^{-1})
(A) 400	1. 6 x 10^8
(B) 400	2.5 x 10^8
(C) 500	2. 5 x 10^8
(D) 625	1. 6 x 10^8

14. The linear magnification for a mirror is the ratio of the size of the image of the object, and is denoted by m. Then m is equal to (symbols have their usual meanings)
    (A) $\frac{uf}{u-f}$ (B) $\frac{uf}{u+f}$ (C) $\frac{uf}{f-u}$ (D) none of these

CHEMISTRY – (PART – B)

*This part contains **14 Multiple Choice Questions** number 15 **to 28.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

15. Which of the following element is a metalloid?
(A) B (B) Si
(C) C (D) Both (A) and (B)

16. The least reactive metal among the following is
(A) Mg (B) Pb (C) Au (D) K

17. Which of the following reaction is not possible?
(A) $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$ (B) $Cu + 2AgNO_3 \rightarrow Cu(NO_3)_2 + 2Ag$
(C) $Cu + FeSO_4 \rightarrow CuSO_4 + Fe$ (D) $Mg + FeSO_4 \rightarrow MgSO_4 + Fe$

18. The process in which the ore is heated in a regular supply of air below the melting point of the metal is
(A) Roasting (B) Calcination
(C) Smelting (D) Reduction

19. Identify the reducing and the oxidizing agents in the following reactions respectively when $CuSO_4$ reacts with Fe to give products $FeSO_4$ and Cu.
(A) Fe reducing, $CuSO_4$ oxidizing (B) Fe oxidizing, $CuSO_4$ reducing
(C) Fe oxidizing, $CuSO_4$ oxidizing (D) Fe reducing, $CuSO_4$ reducing

20. The equation $Cu + xHNO_3 -> Cu(NO_3)_2 + yNO_2 + 2H_2O$
The values of x and y are
(A) 3 and 5 (B) 8 and 6
(C) 4 and 2 (D) 7 and 1

21. The pH of 0.01 M NaOH solution is.
(A) 2 (B) 10
(C) 12 (D) 8

22. Conjugate acid of acetic acid is?
(A) Methyl cation (B) $CH_3COOH_2^+$
(C) CH_3COO^- (D) All the above

23. What is the molarity of 1 litre of sulphuric acid at room temperature if its pH is 2?:
(A) 2 (B) 0.005
(C) 0.002 (D) 0.02

24. An aqueous solution of ammonia consists of
(A) $NH4^+$ (B) OH^-
(C) NH4 OH (D) all the above

25. Which of the following property decreases along a period?
(A) Ionization energy (B) Electron affinity
(C) Metallic character (D) electronegativity

26. The element with highest electron affinity is?
(A) Iodine (B) fluorine
(C) chlorine (D) oxygen

27. The element with atomic number 9 resembles with the element having atomic number
(A) 8 (B) 17
(C) 36 (D) 27

28. Solder is an alloy of
(A) Cu, Mn, and Ni (B) Cu and Sn (C) Sn and Pb (D) Pb and Cu

BIOLOGY – (PART – C)

This part contains 28 ***Multiple Choice Questions*** *number 29* ***to 56.*** *Each question has 4 choices (A), (B), (C) and (D), out of which* ***ONLY ONE*** *is correct.*

29. During glycolysis, glucose is converted into
    (A) CO_2 (B) Cellulose
    (C) Starch (D) Pyruvic acid

30. Which of the following is most suitable for studying respiration in plants?
    (A) Boiled seeds (B) Germinating seeds
    (C) Dry seeds (D) Mashed seeds

31. What includes the automatic reflexes?
    (A) Contraction of iris (B) Dilation of pupil
    (C) Contraction of pupil (D) Dilation of iris

32. Nyctalopia can occur due to the deficiency of
    (A) Vitamin – A (B) Vitamin – B_2
    (C) Vitamin – K (D) Vitamin – D

33. Plants get rid of their excess water by
    (A) Transportation (B) Guttation
    (C) Transpiration (D) Both B and C

34. Which of the following functions is carried out by stomatae?
    (A) Photosynthesis (B) Exchange of gases
    (C) Respiration (D) Absorption of water

35. This hormone is not a growth inhibitor in plants
    (A) Ethylene (B) Abscisic acid
    (C) IAA (D) Dormin

36. Pick out the gaseous plant hormone from the following
    (A) IBA (B) NAA
    (C) ABA (D) Ethylene

37. A balanced diet does not include
    (A) Carbohydrates and fats (B) Nucleic acids and enzymes
    (C) Proteins and vitamins (D) Minerals and salts

38. Which of the following structures is in the diencephalon:
    (A) Cerebral cortex (B) Olfactory bulb
    (C) Hypothalamus (D) Basal ganglia

39. Bud dormancy is induced by
    (A) IAA (B) GA
    (C) ABA (D) Ethylene

40. Stomatal opening is surrounded by
    (A) Epidermal cells (B) Chloroplasts
    (C) Guard cells (D) Chlorophyll

41. Which of the following glands grow to maximum size at puberty and then diminishes gradually?
    (A) Thymus (B) Pituitary
    (C)Thyroid (D) Adrenal

42. Which of these is not a reflex reaction?
    (A) Salivation (B) Secretion of sweat
    (C) Flexion due to needle prick (D) Blinking of eyes due to strong light

43. The function(s) of oxytocin is / are to _____
(A) Cause the uterus to contract
(B) Induce labour Pain
(C) Stimulate the release of milk from the mother's mammary glands when her baby is nursing
(D) All of the above.

44. Tropic movements are:
(A) In response to light
(B) In response to gravity
(C) Uni-directional
(D) Non-directional

45. Respiraiton is
(A) Anabolic process
(B) Catabolic process
(C) Biophysical process
(D) Physical process

46. This hormone is not a growth inhibitor
(A) Dormin
(B) IAA
(C) Ethylene
(D) Abscisic acid

47. Which of the following parts of the brain controls the body temperature and urge of eating "?"
(A) Thalamus
(B) Hypothalamus
(C) Pons
(D) Cerebellum

48. The number of peripheral nerves are:
(A) 86
(B) 43
(C) 62
(D) 24

49. Which of the following is not a part of peripheral nervous system?
(A) Cranial nerves
(B) Ganglion
(C) Spinal cord
(D) Spinal nerves

50. Leaf fall can be induced by:
(A) Florigens
(B) Auxins
(C) Cytokinins
(D) Abscisic acid

51. The first discovery of gibberellins was from:
(A) Algae
(B) Fungi
(C) Bacteria
(D) Mosses

52. Peripheral nervous system of human has how many pairs of spinal nerves?
(A) 21
(B) 11
(C) 31
(D) 12

53. Which one is not a growth promoter?
(A) ABA
(B) GA
(C) IAA
(D) CK

54. Phototropic curvature is the result of uneven distribution of:
(A) Auxin
(B) Gibberellin
(C) Phytochrome
(D) Cytokinins

55. This is not a function of insulin
(A) Gluconeogenesis
(B) Glycogenesis
(C) Lipogenesis
(D) Decreasing glycogenolysis

56. Insulin functions to:
(A) Promote the storage of nutrients.
(B) Lower the blood glucose level by stimulating liver, fat and muscle cells to metabolize glucose
(C) Stimulate uptake of glucose by cells
(D) All of the above

NEET Merit Scholarship Test

(MEDICAL)

for students presently in **Class X**

(Paper-1)

Section – I

1. D	2. B	3. C	4. C	5. D	6. B	7. D	8. A	9. B	10. B
11. D	12. C	13. C	14. D	15. A	16. C	17. A	18. C	19. B	20. C
21. D	22. D	23. A	24. A	25. C	26. D	27. C	28. C	29. D	30. A

Section – II

PART - A

1. A	2. B	3. C	4. A	5. B	6. B	7. D	8. C	9. B	10. B
11. B	12. D								

PART - B

13. B	14. A	15. C	16. B	17. D	18. B	19. B	20. D	21. B	22. B
23. D	24. B								

PART - C

25. A	26. C	27. C	28. B	29. C	30. C	31. B	32. C	33. D	34. C
35. C	36. A	37. A	38. C	39. A	40. C	41. D	42. A	43. B	44. C
45. D	46. B	47. C	48. C						

Section – III

PART - A

1. B	2. C	3. B	4. C	5. D	6. C	7. B	8. D	9. D	10. B
11. C	12. A	13. A	14. D						

PART - B

15. D	16. C	17. C	18. A	19.A	20. C	21. C	22. B	23. B	24. D
25. C	26. C	27. B	28. C						

PART - C

29. D	30. B	31. B	32. A	33. D	34. B	35. C	36. D	37. B	38. C
39. C	40. C	41. A	42. B	43. D	44. C	45. B	46. B	47. B	48. A
49. C	50. D	51. B	52. C	53. A	54.A	55. A	56. C		