

Q.9 Select incorrect statement regarding terminal alkynes

- A. Propyne is a terminal alkyne
- B. Terminal alkynes are more acidic as compared to alkene
- C. Terminal alkynes are not as acidic as alkane
- D. These have a replaceable acidic hydrogen atom

Q.10 Alkynes can be prepared by

- A. Dehydrohalogenation of Vic-Dihalides
- B. Dehydrohalogenation of tetrahalides
- C. Hydrolysis of CaC_2
- D. All of above

Q.11 Identify pair of compounds which are metamers of each other

- A. $\text{CH}_3 - \text{CH}_2 - \text{O} - \text{CH}_2\text{CH}_3$, $\text{CH}_3 - \overset{\text{O}}{\parallel} \text{C} - \text{CH}_2\text{CH}_2\text{CH}_3$
- B. $\text{CH}_3 - \text{O} - \text{CH}_2\text{CH}_2\text{CH}_3$, $\text{CH}_3\text{CH}_2 - \text{O} - \text{CH}_2\text{CH}_3$
- C. $\text{CH}_3 - \overset{\text{O}}{\parallel} \text{C} - \text{CH}_2\text{CH}_2\text{CH}_3$, $\text{CH}_3 - \text{CH}_2 - \overset{\text{O}}{\parallel} \text{C} - \text{CH}_2\text{CH}_3$
- D. Both B and C

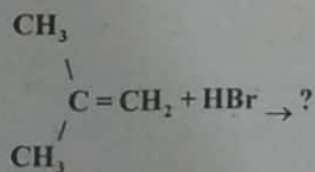
Q.12 When vapor of ethyl alcohol are passed over heated alumina, product formed is

- A. Ethane
- B. Ethene
- C. Ethyne
- D. Benzene

Q.13 Intermediate formed during addition of HCl to ethene is

- A. CH_3CH_2^-
- B. CH_3CH_2^+
- C. $^+\text{CH}_2 - \text{CH}_2 - \text{Cl}$
- D. $\begin{array}{c} \text{CH}_2 - \text{CH}_2^- \\ | \\ \text{Cl} \end{array}$

Q.14 Most expected product formed in given reaction is



- A. $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_2 \\ | \quad | \\ \text{CH}_3 \quad \text{Br} \end{array}$
- B. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3 - \text{C} - \text{Br} \\ | \\ \text{CH}_3 \end{array}$
- C. $\begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CH}_2\text{CH}_3 \\ | \\ \text{Br} \end{array}$
- D. $\text{CH}_3 - \text{CH}_2 - \text{CH}_2\text{CH}_2\text{Br}$

Q.15 Reagent used for detection of unsaturation in a hydrocarbon is

- A. HOCl
- B. $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$
- C. Br_2/CCl_4
- D. All of these



Q.16 Alkenes cannot undergo

- A. Addition reaction
B. Oxidation reaction
C. Polymerization reaction
D. Elimination reaction

Q.17 In polymerization of ethene, Hybridization state of C changes from

- A. sp^3 to sp^2
B. sp^2 to sp^3
C. Remain same
D. sp^2 to sp

Q.18 $CH \equiv C - C \equiv C - CH = CH - CH_3$. Correct IUPAC name of given compound is

- A. Hept, 2-ene, 4, 6 diyne
B. Hept 4, 6 diyne, 2-ene
C. Hept, 5-ene, 1, 3 diyne
D. Hept 1, 3 diyne, 5-ene

Q.19 Addition product of acetylene is

- A. CH_3-CH_3
B. $\begin{array}{c} CHO \\ | \\ CHO \end{array}$
C. 
D. All of above

Q.20 Hydrocarbon which can react with Na in liquid NH_3 is

- A. $CH_3-C \equiv C-CH_3$
B. $CH_3CH_2-C \equiv CH$
C. $CH_3-CH_2-C \equiv C-CH_2CH_3$
D. All of above

Q.21 1-Butyne and 2-Butyne can be distinguished by

- A. Br_2/CCl_4
B. $KMnO_4$
C. HCl
D. $AgNO_3/NH_4OH$

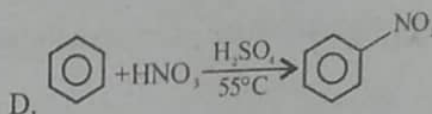
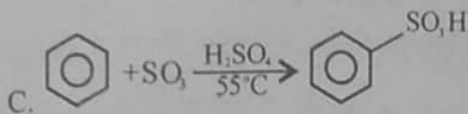
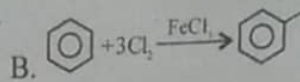
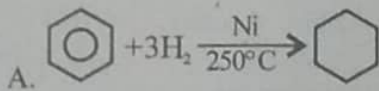
Q.22 Alkenes can be prepared from alcohols by:

- A. Dehydration
B. Dehalogenation
C. Dehydrohalogenation
D. All of these

Q.23 Which among the following product is formed when ethyne is hydrated

- A. Formaldehyde
B. Formic acid
C. Acetaldehyde
D. Acetic acid

Q.24 Which of the following reaction describe unsaturated character of benzene



Q.25 Active nitrating agent in nitration of benzene is

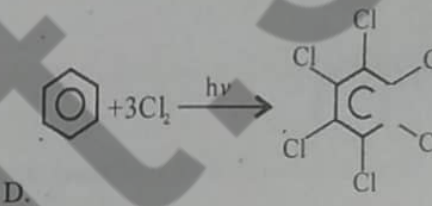
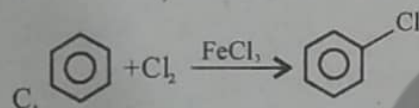
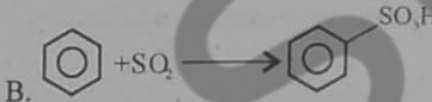
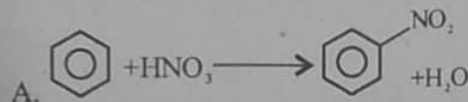
A. NO_2

B. NO^+

C. NO_2^-

D. NO

Q.26 In which of the following reaction characteristics stability of benzene is lost



Q.27 What is the product formed, when benzene reacts with ethanoyl chloride

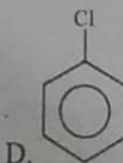
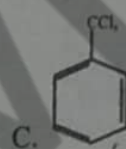
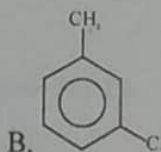
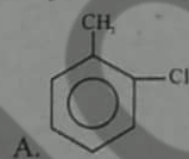
A. Methyl benzene

B. Methyl phenyl ketone

C. Phenyl acetone

D. None of these

Q.28 Toluene when halogenated in the presence of sunlight, final product obtained is



Q.29 In Friedel craft acylation the electrophile will be

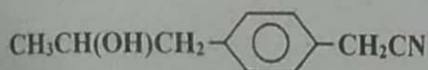
A. CH_3^+

B. CH_3O^-

C. $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}^+$

D. CH_3^-

Q.46 The names of functional groups in the following compound X are



- A. Primary alcohol, nitrile and benzene ring
- B. Secondary alcohol, nitrile and aryl ring
- C. Secondary alcohol, nitrile and phenol ring
- D. Secondary alcohol, amine and benzene ring

Q.47 Which among the following is NOT an example of acyclic compound

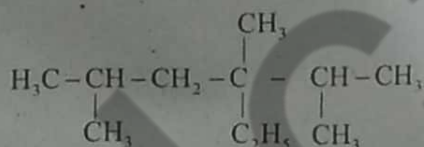
- A. Neo-pentane
- B. Iso-pentane
- C. Cyclobutene
- D. All are acyclic



Q.48 Correct classification of the given compound is

- A. Heterocyclic aromatic
- B. Heterocyclic saturated
- C. Heterocyclic non-aromatic
- D. Alicyclic hydrocarbon

Q.49 Correct IUPAC name of the given structure

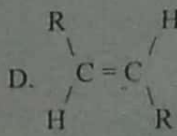
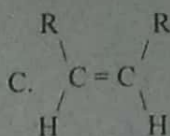
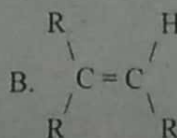
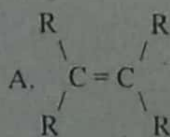


- A. 2,4,5-Trimethyl-4-ethyl hexane
- B. 2,3,5-Trimethyl-3-ethyl hexane
- C. 3-Ethyl, 2,3, 5-trimethyl hexane
- D. All are correct

Q.50 _____ react with water to give 2-Butanone in the presence of $\text{H}_2\text{SO}_4/\text{HgSO}_4$

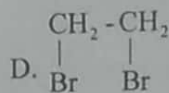
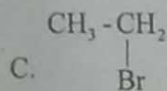
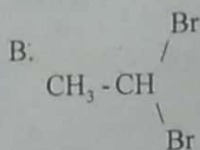
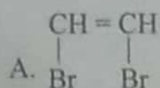
- A. Propyne
- B. 2-Pentyne
- C. 1-Butyne
- D. None of these

Q.51 Cis isomer is





Q.52 Predict the product $\text{HC} \equiv \text{CH} + 2\text{HBr} \longrightarrow ?$



Q.53 Number of atoms in benzene which are Co-planer

A. 12

B. 6

C. 3

D. 18

Q.54 Benzene cannot undergo

A. Addition reaction

B. Electrophilic substitution reaction

C. Polymerization

D. Oxidation

Q.55 C-C bond length in benzene is

A. 1.39Å

B. 1.54Å

C. 1.34Å

D. 1.09Å

Q.56 The organic compound which contains $\text{C}=\text{NH}$ as a functional group is called

A. Amine

B. Imine

C. Amide

D. Nitrile

Q.57 In t-Butyl alcohol, the tertiary carbon is bonded to

A. One Carbon atom

B. Two Carbon atoms

C. Three Carbon atoms

D. No Carbon atom

Q.58 Propanol ($\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$) and ethyl methyl ether ($\text{CH}_3\text{CH}_2\text{OCH}_3$) are best considered:

A. Structural Isomers

B. Functional Group isomers

C. Position Isomers

D. Cis-trans isomers

Q.59 Alkenes show geometrical isomerism due to

A. Asymmetry

B. Rotation around a single bond

C. Resonance

D. Restricted rotation around a double bond

Q.60 Which of the following is a correct name of Neo-Pentane according to the IUPAC rules?

A. 2-Methylbutane

B. 2-Methylpentane

C. 2,2-Dimethylpropane

D. 3-Ethyl-2-methylbutane

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2. Please Fill In The Roll No. Correctly.
3. It is Important That The Circle is Filled Completely And Correctly As Shown In The Example Below, Otherwise

Correct Example: ✓

Incorrect Examples: X

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SUBJECT: Chem CH/UNIT# 08

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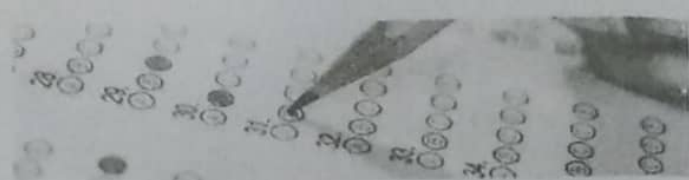
UNIT-8 (A+ SERIES)

TOPICS:

✓ **Electromagnetism**

✓ **Electromagnetic Induction**

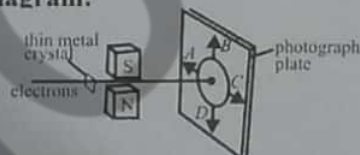
- Q.1 A charged particle moves with velocity v in a uniform magnetic field B . The magnetic force experienced by the particle is
 A. Always zero
 B. Never zero
 C. Zero if B and v are perpendicular
 D. Zero if B and v are parallel
- Q.2 The force on a stationary charge at any point inside the current carrying loop is:
 A. Zero
 B. Infinite
 C. Dependent on current
 D. Dependent on shape of loop
- Q.3 In a transformer, the number of turns of primary coil and secondary coil are 5 and 4 respectively. If 220 V is applied on the primary coil, then the ratio of primary current to the secondary current is:
 A. 4 : 5
 B. 5 : 4
 C. 5 : 9
 D. 9 : 5
- Q.4 Induced e.m.f. in the coil depends upon:
 A. Conductivity of the coil
 B. Amount of flux
 C. Rate of change of linked flux
 D. Resistance of coil
- Q.5 Whenever a magnet is moved either towards or away from a conducting coil, an emf is induced, the magnitude of which is independent of:
 A. the strength of the magnetic field
 B. the speed with which the magnet is moved
 C. the number of turns in the coil
 D. the area of cross-section of the coil
- Q.6 A charged particle is moving along X-axis in a magnetic field along the Y-axis. The direction of magnetic force acting on it is
 A. Along X-axis
 B. Along Y-axis
 C. In XY plane
 D. Along Z-axis
- Q.7 In a step-up transformer, primary coil has 10 turns while secondary has 100 turns. A battery of emf 4.5V is connected to the primary of transformer. The voltages across secondary will be
 A. 4.5V
 B. 45V
 C. 0.45V
 D. Zero
- Q.8 Which of the following have smallest e/m ratio?
 A. Electron
 B. Proton
 C. Deuteron
 D. α - particle
- Q.9 Lorentz force is given by
 A. $q(\vec{E} + \vec{v} \times \vec{B})$
 B. $q(\vec{E} - \vec{v} \times \vec{B})$
 C. $q(\vec{E} + \vec{v} \cdot \vec{B})$
 D. $q(\vec{E} \times \vec{B} + \vec{v})$
- Q.10 An electron is moving in circle of radius r in a uniform magnetic field B . Suddenly the field is reduced to $B/2$ The radius of the circle now becomes
 A. $r/2$
 B. $2r$
 C. $r/4$
 D. $4r$
- Q.11 An electron is moving north in a region where the magnetic field is south. The magnetic force exerted on the electron is:
 A. Zero
 B. Up
 C. Down
 D. East
- Q.12 A metallic ring is attached to the wall room. When the north pole of a magnet is brought near the ring, the induced current in the ring is:
 A. Zero
 B. In clockwise direction
 C. In anticlockwise direction
 D. Infinite
- Q.13 Transformers are based on principles of:
 A. An electric current can produce a magnetic field
 B. A changing magnetic field within a coil of wire induces a voltage across the ends of the coil
 C. Both 'A' and 'B'
 D. None of these



- Q.14** When a charge particle enters a magnetic field, it will move on a circular path of radius
- A. $r = \frac{qB}{mv}$ B. $\frac{qmv}{B}$ C. $r = \frac{mv}{qB}$ D. $\frac{qmB}{r}$
- Q.15** Soft iron core in a transformer is used to reduce
- A. Eddy current losses B. Iron losses
C. Hysteresis losses D. Heat losses due to resistance
- Q.16** The Unit of the magnetic flux density is equal to:
- A. Weber B. Tesla C. $\frac{N}{C}$ D. $\frac{Wb}{A}$
- Q.17** Which of the following uses electric energy and does not convert it into any other form?
- A. Transformer B. DC generator
C. Motor D. AC generator
- Q.18** When the conductor is stationary and the magnetic field is moving or changing. Then the emf induced in this way is called:
- A. Statically induced emf B. Dynamically induced emf
C. Motional emf D. None of these
- Q.19** Working Principle of the generator is
- A. Torque on current carrying coil B. Mutual Induction
C. Electromagnetic Induction D. Self-Induction
- Q.20** A proton and an alpha-particle enter a uniform magnetic field with the same velocity. The period of rotation of the alpha-particle will be
- A. Four times that of the proton B. Two times that of the proton
C. Three times that of the proton D. Same as that of the protons
- Q.21** A charge particle q is moving in a circular path of radius r in uniform magnetic field, in a circle of radius r . its angular velocity
- A. Increase with time B. Remain constant
C. Decrease with time D. Fluctuating
- Q.22** If the supply frequency of a transformer increases, the secondary output voltage of the transformer
- A. Increases B. Decreases
C. Remains unchanged D. None of these
- Q.23** To improve efficiency of transformer the flux coupling between primary & secondary coils should be
- A. Small B. Maximum
C. May be small or may be maximum D. None of these
- Q.24** The uniform magnetic field is
- A. The field of a set of parallel conductors
B. The field in which all magnetic lines of force are parallel and equidistant
C. The field of a single conductor
D. None of the above
- Q.25** A charged particle travelling in a uniform field could have a circular trajectory if the field is
- A. Gravitational B. Electrical
C. Magnetic D. Gravitational or electrical
- Q.26** The total number of magnetic lines of force passing through a certain area perpendicular to a magnetic field is called
- A. Magnetic flux B. Magnetic flux density
C. Magnetic flux intensity D. Magnetic potential
- Q.27** The transformation ratio in the step-up transformer is
- A. 1
B. Greater than one
C. Less than one
D. The ratio greater or less than one depends on the other factors
- Q.28** The alternating voltage induced in the secondary coil of a transformer is mainly due to
- A. A varying electric field B. A varying magnetic field
C. The vibrations of the primary coil D. The iron core of the transformer
- Q.29** The time required for a 50Hz alternating current to reach its peak value starting from zero is
- A. $\frac{1}{100}$ s B. $\frac{1}{50}$ s C. $\frac{1}{200}$ s D. $\frac{1}{400}$ s



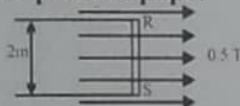
- Q.30** Magnetic lines of force
 A. Always intersect
 B. Are always closed
 C. Tend to crowd far away from the poles of a magnetic
 D. Do not pass-through vacuum
- Q.31** The ratio of magnetic force to electric force on a charged particle getting undeflected in a field is?
 A. 1 B. 0 C. 2 D. 4
- Q.32** Identify the condition under which the force acting on a charge moving through a uniform magnetic field is minimum.
 A. $\theta = 90^\circ$ B. $\theta = 180^\circ$
 C. $\theta = 270^\circ$ D. $\theta = 340^\circ$
- Q.33** If ϕ = magnetic flux, B = magnetic field intensity, A = area, then the correct relationship between them is:
 A. $B = \phi/A$ B. $\phi = B/A$ C. $A = B\phi$ D. $B = \phi A$
- Q.34** The frequency of applied A.C is 2 kHz Its time period will be
 A. 0.5×10^{-3} sec B. 0.5 second
 C. 5 sec D. 3.sec
- Q.35** The induced current in A.C generator vary with time
 A. Linearly B. Exponentially
 C. Sinusoidally D. Form a square wave
- Q.36** According to Flemming's left-hand rule, the index finger denotes?
 A. Direction of magnetic field B. Direction of current
 C. Direction of force D. Direction of force as well as current
- Q.37** A coil having an area of 2 m^2 is placed in a magnetic field which changes from 1 Weber/ m^2 to 4 Weber/ m^2 in 2 seconds. The e.m.f. induced in the coil will be
 A. 4-volt B. 3 volt C. 2-volt D. 1 volt
- Q.38** The number of coils in a transformer is
 A. 2 B. 3 C. 4 D. 5
- Q.39** If the direction of the field and area vector is opposite then magnetic flux is
 A. Positive B. Zero
 C. Negative D. None of these
- Q.40** G.P Thomson's early experiments on the diffraction of the electrons by crystals were criticized on the ground that the beams affecting the photographic plate might be X-rays. He proved that this was not so by placing bar magnets on each side of the beam as shown in the diagram.



- How would the magnetic field due to magnetic affect the diffraction rings?**
 A. The rings would be deflected in the direction A
 B. The rings would be deflected in the direction C
 C. The rings would be deflected in the direction B
 D. The rings would be deflected in the direction D
- Q.41** Power loss in the actual transformer is due to
 A. Small output B. Eddy currents and magnetic hysteresis
 C. Soft iron core D. Back emf
- Q.42** Calculate the speed of an electron if it travels in a circular path of radius 50 cm in a magnetic field of 5×10^{-3} T.
 A. 440×10^7 m/s B. 4×10^7 m/s
 C. 44×10^7 m/s D. 0.4×10^7 m/s
- Q.43** What is the angular frequency during the circular motion?
 A. qm/B B. qB/m C. m/qB D. qmB
- Q.44** A.C generator is similar to
 A. Transformer B. Capacitor
 C. Inductor D. None
- Q.45** The transformer laminations are insulated from each other by:
 A. Mica strip B. Paper
 C. Thin coating of Varnish D. Any of the above



- Q.46 If the angular speed of rotation of an armature of alternating current generator is doubled, then the induced electromotive force will be:
 A. Twice B. Four times C. No change D. Half
- Q.47 The charge to mass ratio of an electron is
 A. Greater than proton B. Smaller than proton
 C. Equal to proton D. Equal to neutron
- Q.48 The strength of the magnetic field due to a long straight conductor is
 A. The same everywhere around the conductor
 B. Inversely proportional to the distance from the conductor
 C. Inversely proportional to the square of the distance from the conductor
 D. Inversely proportional to the cube of the distance from the conductor
- Q.49 The magnetic field in a certain region is 5Wb m^{-2} . How much flux passes through an area of 18m^2 , if a loop is placed at right angle to the field
 A. 3.6Wb B. 90Wb C. 9.0Wb D. 36Wb
- Q.50 The diagram shows a current carrying conductor RS of length 2m placed perpendicular to a magnetic field of flux density 0.5tesla . The resulting force on the conductor is 1N acting into the plane of paper



- What is the magnitude and direction of the current?
 A. 1A from R to S B. 1A from S to R
 C. 2A from R to S D. 2A from S to R
- Q.51 A 10cm wire carrying current of 2A is placed in field of strength 0.23T of wire makes an angle 30° with field. Find magnitude of force on wire.
 A. 0.23N B. 0.023N C. 23N D. 2.3N
- Q.52 The magnetic flux will be maximum if
 A. Field is directed along normal to area B. Field is directed along parallel to area
 C. The vector area is parallel to field. D. Both "a" and "c"
- Q.53 The diagram shows the wire, carrying a current I , placed between poles of magnet.



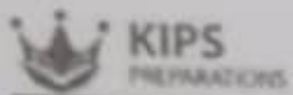
- In which direction does the force on the wire acts?
 A. Downward B. Upwards
 C. Toward the N pole of magnet D. Toward the S pole of magnet
- Q.54 When electrons are directed at right angle to a magnetic field directed into the plane of paper they will experience
 A. A variable force B. A constant force
 C. Force along the direction of velocity D. No force
- Q.55 A charged particle enters at 30° to the magnetic field. Its path becomes
 A. Helical B. Circular
 C. Elliptical D. Straight line
- Q.56 When carrying electricity on long distances. Step up transformers are used to:
 A. Increase both voltage and current B. Increase voltage reduce current
 C. Increase current reduce voltage D. None of these
- Q.57 The magnitude of motional emf induced in a rod moving perpendicular to the magnetic field is
 A. $M = \frac{\epsilon \cdot s}{\Delta I_p / \Delta t}$ B. $N\theta = LI$ C. $\epsilon = vBL$ D. $\epsilon = L \frac{\Delta I / \Delta t}$
- Q.58 Electric generators work on the principle of
 A. Coulomb's law B. Newton's law of gravitation
 C. Ampere's law D. Electromagnetic induction
- Q.59 Induced current in a circuit depends upon
 A. Induced emf B. Speed of conductor
 C. Resistance of conductor D. All of these
- Q.60 At what time the instantaneous voltage is half of the maximum voltage (T is time period)
 A. $\frac{T}{2}$ B. $\frac{T}{12}$ C. $\frac{T}{6}$ D. $\frac{T}{4}$

20) $T = \frac{2\pi m}{q \cdot v} = \frac{2\pi (4m)}{(20v)B} = 2$
 speed uniform + w constant

27) $\frac{Ns}{np} > 1$
 So) $F = ILB \sin 90$
 $\frac{F}{LB} = I$
 $IA = I$

42) $\frac{V}{m} = \frac{V}{2B}$
 60) $V = V_0 \sin \omega t$
 $V = \frac{V_0}{2}$
 $= \sin^{-1}(\frac{1}{2}) = \frac{T}{12}$

29) $t = \frac{T}{4}$
 $f = \frac{1}{T}$
 $50 = \frac{1}{4}$
 $200 \mu s = f$



Class Test

$F = q(v \times B)$

37) $\mathcal{E} = \frac{N \Delta \Phi}{\Delta t} = \frac{3(2)}{2} = 3$

$I_{avg} = \frac{1}{N}$
 $\mathcal{E} = \frac{2 \times 1000}{2}$
 $R = H \cdot R$
 $D \times C = \dots$
 $r = \frac{m \cdot v}{q \cdot B}$

ABCD	ABCD	ABCD	ABCD
1 ○○○●	16 ○●○○	31 ●○○○	46 ●○○○
2 ●○○○	17 ●○○○	32 ○●○○	47 ●○○○
3 ●○○○	18 ●○○○	33 ●○○○	48 ○●○○
4 ○○○●	19 ○○○●	34 ●○○○	49 ○●○○
5 ○○○●	20 ○●○○	35 ○○○●	50 ○●○○
6 ○○○●	21 ○●○○	36 ●○○○	51 ○●○○
7 ○○○●	22 ●○○○	37 ○●○○	52 ○○○●
8 ○○○●	23 ○●○○	38 ●○○○	53 ●○○○
9 ●○○○	24 ○●○○	39 ○○○●	54 ●○○○
10 ○●○○	25 ○○○●	40 ●○○○	55 ●○○○
11 ●○○○	26 ●○○○	41 ○●○○	56 ○●○○
12 ○○○●	27 ○●○○	42 ○○○●	57 ○○○●
13 ○○○●	28 ○●○○	43 ○●○○	58 ○○○●
14 ○○○●	29 ○○○●	44 ○○○●	59 ○○○●
15 ○○○●	30 ○●○○	45 ○○○●	60 ○●○○

Roll No. _____

0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use Blue Ball Point Pen Only

2. Please Fill In The Roll No. Correctly.

3. It Is Important That The Circle Is Filled Completely And Correctly As Shown In The Example Below, Otherwise

Correct Example: ○ ● ○ ○ ✓

Incorrect Examples: ○ ● ● ○ X
 ○ ○ ● ○ X
 ○ ○ ○ ● X

SUBJECT: Physics CH/UNIT# 08

NAME: _____

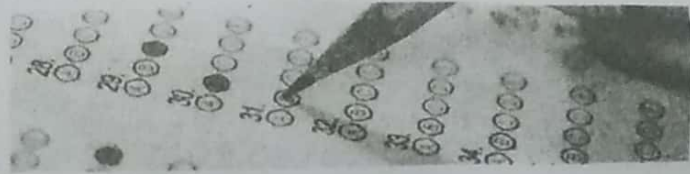
R. NO. (IN WORDS): _____

CLASS: _____ SESSION: _____

SIGN: _____ DATE: _____

$f_e = f_B$ $\frac{f_e}{f_B} = 1$

$\theta = 0^\circ \rightarrow$ st. path
 $\theta = 90^\circ \rightarrow$ circular



BIOLOGY MDCAT

UNIT-8 (A+ Series)

TOPIC:

✓ **Coordination and Control/Nervous and Chemical Coordination**

- Q.1 A bipolar neuron has:**
A. 2 axons and 1 dendrite
B. 2 axons and 2 dendrites
C. 2 dendrites and 1 axon
D. 1 dendrite and 1 axon
- Q.2 The potential difference across the membrane of nerve fibres, when it does not show any physiological activity is called resting potential. It is about:**
A. - 60 mV
B. + 60 mV
C. -70 mV
D. + 90 mV
- Q.3 Consider the following statements:**
1. Gray matter surrounds the white matter in the brain
2. Gray matter surrounds the white matter in the spinal cord
3. White matter surrounds the gray matter in the spinal cord
4. White matter surrounds the gray matter in the brain
Among these statements:
A. 2 and 3 alone is correct
B. 1 and 4 are correct
C. 1 and 3 are correct
D. Only 4 is correct
- Q.4 Coordination is achieved through nervous system as well as endocrine system. The respective chemical agents are:**
A. Hormones and cAMP
B. Neurotransmitters and hormones
C. Hormones and neurotransmitters
D. Neurotransmitters and neurons
- Q.5 Sympathetic innervation has inhibitory influence on:**
A. Salivation, peristalsis, bladder contraction
B. Peristalsis, gut secretion, adrenalin secretion
C. Salivation, peristalsis, glycogenolysis
D. Gut secretion, adrenal secretion, and heart beat
- Q.6 Cerebral hemispheres are the centers of:**
A. Thinking
B. Smell
C. Balance
D. Taste
- Q.7 Voluntary muscular coordination is under control of:**
A. Cerebellum
B. Hypothalamus
C. Medulla oblongata
D. Cerebral hemispheres
- Q.8 Select the correct statement regarding spinal nerves:**
A. Dorsal root is sensory and ventral root is motor
B. Dorsal root is motor and sensory both
C. Dorsal root is motor and ventral root is sensory
D. Ventral root is sensory and motor both
- Q.9 Afferent nerve fibres conduct impulse from:**
A. Effector to receptor
B. CNS to receptor
C. Receptor to CNS
D. CNS to effector
- Q.10 Nissl's granules are absent in:**
A. Axon
B. Soma
C. Cyton
D. Dendrite
- Q.11 Which of the following ion causes transmission of impulse across the neuron?**
A. Na⁺
B. Ca²⁺
C. K⁺
D. Mg²⁺
- Q.12 In the nerve cells, reversal of the resting potential is known as depolarization. This occurs due to:**
A. Influx of Na⁺
B. Influx of Ca²⁺ and Cl⁻
C. Influx of K⁺
D. Efflux of Na⁺
- Q.13 High blood pressure receptors, a type of mechanoreceptors, are located in:**
A. Atria of heart
B. Both aorta and carotid arteries
C. Carotid arteries
D. Aorta



- Q.14** _____ carries sensory information, from auditory and visual pathways, skin and from within the body, to the limbic system and cerebrum.
- A. Thalamus
B. Spinal cord
C. Pons
D. Medulla oblongata
- Q.15** Part of motor neuron which makes synapse with sarcolemma is:
- A. Dendron
B. Neurofibrils
C. Cell body
D. Axon ending
- Q.16** Which of the following is correct about most of the neurons present in human body?
- A. One long fiber with multiple soma
B. Several axons and dendrites
C. One axon and one dendrite
D. Several dendrites and one long axon
- Q.17** Pick the incorrect statement about cell body of neuron:
- A. Ability to regenerate dendrites and axon
B. Main nutritional part of the neuron
C. Major cause of brain tumor
D. Contain Nissl's bodies
- Q.18** Neurons once mature do not divide further because they are present in:
- A. G₁-phase
B. S-phase
C. G₂-phase
D. G₀-phase
- Q.19** Speed of nerve impulse depends upon all except:
- A. Diameter of neuron
B. Length of neuron
C. Number of extensions
D. Myelin sheath
- Q.20** Resting neurolemma has the highest permeability for:
- A. K⁺
B. Na⁺
C. Cl⁻
D. Fe⁺²
- Q.21** Simple definition of electrical potential is:
- A. Movement of ions
B. Flow of electrons
C. Diffusion of potassium ions
D. Voltage difference
- Q.22** Which significant event occurs within the neuron that results in the generation of action potential?
- A. Formation of ATP molecules
B. Release of calcium ions
C. Polarization of neurolemma
D. Opening of ions channel
- Q.23** Pick the incorrect statement about neurons:
- A. Node of Ranvier is integral part of all neurons
B. Cell bodies are the main nutritional part of the neuron
C. Nissl's granules are present in soma
D. Axons carry nerve impulses away from the cell body
- Q.24** Which of the following neuron is entirely present within the CNS?
- A. Sensory neuron
B. Interneuron
C. Afferent neuron
D. Motor neuron
- Q.25** Which of the following is incorrect about neuroglial cells?
- A. Provides nutrition to neurons
B. Involved in protection
C. Involved in generation and conduction of impulse
D. Increases speed of impulse
- Q.26** Pick correct statement about neurons:
- A. Dendron of motor neuron in upto one meter long
B. Receptor site for neurotransmitters is present on axon endings of neuron
C. Dendron and axon are myelinated fibers and carry impulses away from cell body
D. Dendrites of neurons act as receptor as well
- Q.27** All of the following functions are controlled by the cerebrum except:
- A. Intelligence
B. Sensation
C. Memory
D. Digestion
- Q.28** Cretinism occurs due to the under secretion of _____ hormones.
- A. Adrenal
B. Thyroid
C. Parathyroid
D. Pituitary
- Q.29** Which hormone promotes cell division, protein synthesis and bone growth?
- A. Growth hormone
B. Antidiuretic hormone
C. Adrenocorticotrophic hormone
D. Parathormone



- Q.30** Daily rhythms in our body are usually associated with:
A. Pituitary gland
B. Pineal gland
C. Thymus gland
D. Hypothalamus
- Q.31** Androgens are secreted by:
A. Thyroid
B. Parathyroid
C. Pituitary
D. Adrenals
- Q.32** Iodine is an essential bio-element necessary for the synthesis of:
A. Secretin
B. Adrenaline
C. Thyroxine
D. Testosterone
- Q.33** Which of the following is an example of gastrointestinal hormone?
A. Cholinesterase
B. Enterokinase
C. Gastrin
D. Prolactin
- Q.34** MSH is secreted from:
A. Anterior lobe of pituitary gland
B. Median lobe of pituitary gland
C. Posterior lobe of pituitary gland
D. Skin
- Q.35** Parathormone deficiency produces muscle tetany as a result of:
A. Enhanced blood glucose
B. Enhanced blood Ca^{2+}
C. Lowered blood Ca^{2+}
D. Enhanced blood Na^+
- Q.36** Oxytocin helps in:
A. Ovulation
B. Implantation
C. Menarche
D. Child birth
- Q.37** A hormone involved in water reabsorption in kidney by counter-current mechanism is:
A. Oxytocin
B. Aldosterone
C. ADH
D. GH
- Q.38** Secretin is a/an:
A. Enzyme
B. Neurotransmitter
C. Coenzyme
D. Hormone
- Q.39** Which of the following secretes hormones with the help of neurosecretory axons?
A. Pineal gland
B. Adrenal cortex
C. Anterior pituitary
D. Posterior pituitary
- Q.40** Metamorphosis in tadpole can be promoted by injecting:
A. STH
B. TRF
C. TSH
D. Thyroxine
- Q.41** Gonads and adrenal cortex arise from:
A. Ectoderm
B. Mesoderm
C. Endoderm
D. Ectoderm and Mesoderm
- Q.42** If thymus is removed in childhood, then:
A. Lymphocytes number will be decreased
B. Antigen will not be formed
C. Antibody will reduce
D. Immune system will be affected
- Q.43** It causes milk ejection from mammary glands:
A. Prolactin
B. Oxytocin
C. Progesterone
D. Estrogen
- Q.44** Which of the following is the function of FSH in male body?
A. Ovulation
B. Spermatogenesis
C. Control of blood sugar
D. Production of testosterone
- Q.45** Which pair of hormones is tyrosine derivatives?
A. Calcitonin and insulin
B. FSH and GH
C. Thyroxine and adrenaline
D. Insulin and glucagon
- Q.46** Growth hormone will be more effective in the:
A. Absence of insulin
B. Absence of thyroxine
C. Presence of thyroxine
D. Presence of adrenaline
- Q.47** Diabetes insipidus is due to:
A. Hypo-secretion of insulin
B. Hyper-secretion of vasopressin
C. Hypo-secretion of vasopressin
D. Hyper-secretion of insulin



- Q.48 Steroidal hormones show structural similarities with:**
 A. Tyrosine
 B. Cholesterol
 C. Triglyceride
 D. Coenzyme-A
- Q.49 Correct sequence of hormone secretion from the beginning of menstruation is:**
 A. FSH, progesterone, estrogen
 B. Estrogen, FSH, progesterone
 C. FSH, estrogen, progesterone
 D. Estrogen, progesterone, FSH
- Q.50 Glucagon is produced by α -cells of Islets of Langerhans which:**
 A. Decreases level of glucose in blood
 B. Converts glycogen into glucose
 C. Converts glucose to glycogen
 D. Converts glucose into protein
- Q.51 A woman started developing male characters. It may be due to:**
 A. Damage to posterior pituitary
 B. Damage to mammary glands
 C. Over-production of estrogen
 D. Over-production of adrenal androgens
- Q.52 Total number of thyroid gland/s in human body is/are:**
 A. 1
 B. 2
 C. 3
 D. 4
- Q.53 Which of the following hormone is produced from the kidneys?**
 A. Rennin
 B. Erythropoietin
 C. Aldosterone
 D. Antidiuretic hormone
- Q.54 The primary target of the releasing and inhibiting hormones of the hypothalamus is:**
 A. Liver
 B. Anterior pituitary
 C. Thyroid gland
 D. Posterior pituitary
- Q.55 Which of the following is not an example of endocrine gland?**
 A. Goblet cells
 B. Testes
 C. Adipocytes
 D. Corpus luteum
- Q.56 Hormones can produce their effects by:**
 A. Denaturing enzymes
 B. Stimulating enzymes
 C. Regulating enzymes
 D. Inhibiting enzymes
- Q.57 Hormones secreted by the adrenal medulla are:**
 A. Steroids
 B. Proteinaceous
 C. Catecholamine
 D. Polypeptides
- Q.58 In human males, the levels of testosterone becomes constant:**
 A. Before birth
 B. Before puberty
 C. After birth
 D. After puberty
- Q.59 Identify the correct sequence of structures involve in a reflex circuit:**
 A. Receptor \rightarrow Motor neuron \rightarrow Associative neuron \rightarrow Gland \rightarrow Sensory neuron
 B. Receptor \rightarrow Motor neuron \rightarrow Sensory neuron \rightarrow Muscle \rightarrow Associative neuron
 C. Receptor \rightarrow Sensory neuron \rightarrow Associative neuron \rightarrow Motor neuron \rightarrow Effectors
 D. Motor neuron \rightarrow Associative neuron \rightarrow Effectors \rightarrow Sensory neuron \rightarrow Muscle
- Q.60 Which of the following hormones is not produced from human placenta?**
 A. Prolactin
 B. Estrogen
 C. Progesterone
 D. hCG

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	16	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	31	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	46	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	32	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	47	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
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6	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	21	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	36	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	51	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
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1. Use Blue Ball Point Pen
2. Please Fill In The Roll No.
3. It is Important That The C Completely And Correctly In The Example Below.

Correct Example:

Incorrect Examples:

SUBJECT: Biology CH/UNIT# 08

NAME: _____

R. NO. (IN WORDS): _____

CLASS: _____ SESSION: _____

SIGN: _____ DATE: _____

ENGLISH MDCAT

TEST-8 (A+ SERIES)

TOPICS:

NARRATION & (PUNCTUATION AND CAPITALIZATION)

Directions:

Choose the correct Narration

- Q.1 They say, "They are all your Pakistani brothers."
 A. They said that they are all Pakistani brothers. B. They say that they were our Pakistani brothers.
 C. They say that they all are our Pakistani brothers. D. They say to us they all were our Pakistani brothers.
- Q.2 Jim said, "Bill loves to drink Wine."
 A. Jim said that Bill loved to drink wine. B. Jim said that Bill had loved to drink wine.
 C. Jim said that Bill used to love to drink wine. D. Jim says that Bill loves to drink wine.
- Q.3 He asked, "Are they writing the paper?"
 A. He asked whether they were writing the paper. B. He asked if they were writing the paper.
 C. He asked that if they were writing the paper. D. Both A. & B.
- Q.4 "I have been with Jill since yesterday," said Joe on Friday morning.
 A. On Friday morning, Joe said he has been with Jill since the day before.
 B. On Friday morning, Joe said he has been with Jill since yesterday.
 C. On Friday morning, Joe said he had been with Jill yesterday.
 D. On Friday morning, Joe said he had been with Jill since the day before.
- Q.5 The boy said, "I have been waiting for my mother since morning."
 A. The boy said that if he had been waited for his mother since morning.
 B. The boy said that he had been waiting for his mother since morning.
 C. The boy said that he waited for his mother since morning.
 D. None
- Q.6 The teacher said, "I wrote this."
 A. The teacher said that he had written this. B. The teacher said that he had written that.
 C. The teacher said that I wrote that. D. The teacher inquired that he writes that.
- Q.7 Maria said, "I was dialing your number, and you called."
 A. Maria said that she had been dialing my number and I called.
 B. Maria said that she had dialed my number and she had called.
 C. Maria said that she had been dialing my number and I had called.
 D. Maria said that Maria has been dialing my number and I had called.
- Q.8 Father said, "I had passed school with 80%."
 A. Father said that he had passed school with 80%. B. Father said that he passed school with 80%.
 C. Father said that he has passed school with 80%. D. Father said that he had had passed school with 80%.
- Q.9 "You'll write a test next month," the teacher warned us in May.
 A. The teacher warned us in May that he would write a test next month.
 B. The teacher warned us in May that we shall write a test in the following month.
 C. The teacher warned us in May that we would write a test in the following month.
 D. The teacher warned us in May that we would have written a test in the following month.
- Q.10 He said, "I can swim under water for two hours."
 A. He said that he could swim under water for two hours. B. He said that he can swim under water for two hours.
 C. He said that he could swim. D. He told that he could swim under water for two days.

- A. He said that he could swim under water for two hours.
C. He said that he could swim.
- Q.11 Harry said, "May I smoke?"**
A. Harry asked that may he smoke.
C. Harry asks if he might smoke.
- Q.12 Peter said, "You must read it."**
A. Peter suggested that he must read it.
C. Peter suggested that he should read it.
- Q.13 They said, "How beautiful she looks!"**
A. They exclaimed with wonder that she looked very beautiful.
B. They exclaimed with sorrow that she looks very beautiful.
C. They exclaimed with wonder that he looked very beautiful.
D. They exclaimed with wonder that she looked very beautiful!
- Q.14 She said, "When I was enjoying youth I watched movies".**
A. She said that when she enjoyed youth she watched movies.
B. She said when she was enjoying youth, she watched movies.
C. She said that when I had enjoyed I had watched movies.
D. She inquired that when they were enjoying and watching movies.
- Q.15 It's time we began planning our holidays,' he said.**
A. He said that it is time they began planning their holidays.
B. He said that it was time they had begun planning their holidays.
C. He said it is time they begin planning their holidays.
D. He said that it was time they began planning their holidays.
- Q.16 He said to me, "Let's go home together.**
A. He urged me to go home with him.
C. He proposed to me to go home together.
- Q.17 She said, "I would buy new house if I were rich."**
A. She said that she will buy new house if she was rich.
B. She said that she would buy new house if she had been rich.
C. She said that I would buy new house if I had been rich.
D. She said that she should buy new house if she had rich.
- B. He said that he can swim under water for two hours.
D. He told that he could swim under water for two days.
- B. Harry asked If he might smoke.
D. Harry asked whether if he might smoke.
- B. Peter said to read it.
D. None
- B. He suggested me that we should go home together.
D. He suggested me to let's go home with him.

- Q.18 I asked them if they couldn't help talking.
 A. I said to them, "Can't you help talking?"
 B. I said to them, "Can't you help talking?"
 C. I said to them, "Can't you help talking?"
 D. I said to them "Can't you help talking?"
- Q.19 "Why did you neglect your duty?" he said to them.
 A. He asked them why they neglected their duty.
 B. He asked them why they had neglected their duty.
 C. He asked them why had they had neglected their duty?
 D. He asked them that why had they neglected their duty.
- Q.20 The teacher said to Ali, "Congratulations! Wish you success in life."
 A. The teacher congratulated Ali and said wish you success in life.
 B. The teacher wished congratulations and success in life to Ali.
 C. The teacher wished congratulations to Ali and wished him success in life.
 D. The teacher congratulated Ali and wished him success in life.

Directions:

In each of the following questions, four alternative sentences are given. Choose the CORRECT one.

- Q.21 A. "I'm truly shocked by your behavior!", I told her. B. I'm truly shocked by your behavior! I told her.
 C. "I'm truly shocked by your behavior!" I told her. D. "I'm truly shocked by your behavior?" I told her.
- Q.22 A. "It won't take long to explain," replied Mr. Steward, "May I come in?"
 B. "It won't take long to explain," replied Mr. Steward. "May I come in?"
 C. "It won't take long to explain," replied Mr. Steward. "May I come in?"
 D. "It won't take long to explain." replied Mr. Steward. "May I come in?"
- Q.23 A. Having had lunch, we went back to work. B. Having had lunch: we went back to work.
 C. Having had lunch; we went back to work. D. Having had lunch we went back to work.
- Q.24 A. He has the team shirt although I have never seen him wear it.
 B. He has the team shirt; although I have never seen him wear it.
 C. He has the team shirt, although I have never seen him wear it.
 D. He has the team shirt: although I have never seen him wear it.
- Q.25 A. He thought quickly but still did not answer correctly. B. He thought quickly, but still did not answer correctly.
 C. He thought quickly; but still did not answer correctly. D. He thought quickly, but, still did not answer correctly.
- Q.26 A. It's lost it's mother and its very unhappy. B. Its lost it's mother and it's very unhappy.
 C. It's lost its mother: and it's very unhappy. D. It's lost its mother, and it's very unhappy.
- Q.27 A. His mother's-in law property was huge but was wasted by her son's.
 B. His mother-in's law property was huge but was wasted by her sons.
 C. His mother's-in law property was huge; but was wasted by her son's.
 D. His mother-in law's property was huge but was wasted by her sons.
- Q.28 A. I left the hotel and, having nothing much else to do, walked along to the museum.
 B. I left the hotel and having nothing much else to do, walked along to the museum.
 C. I left the hotel and, having nothing much else to do walked along to the museum.
 D. I left the hotel and having nothing much else to do walked along to the museum.
- Q.29 A. He always ordered a walnut cake, with pink icing, from Reddaway.
 B. He always ordered a walnut cake with pink icing from Reddaway's.
 C. He always ordered a walnut cake, with pink icing from Reddaway.
 D. He, always, ordered a walnut cake with pink icing from Reddaway's.
- Q.30 A. Several boss's houses are in Islamabad. B. Several bosses houses are in Islamabad.
 C. Several bosses's houses are in Islamabad. D. Several boss's houses are in Islamabad.

Directions:

Choose the correct **SYNONYM**.

- Q.31 MENACED**
A. Braced B. Jeopardized C. Redeemed D. Galvanized
- Q.32 MUSTERED**
A. Convulsed B. Congregated C. Severed D. Disbanded
- Q.33 MEAN**
A. Infer B. Altruistic C. Nasty D. Buoyant
- Q.34 MASS**
A. Throng B. Trace C. Want D. Dearth
- Q.35 MOUNTING**
A. Waning B. Depleting C. Slumping D. Appreciating

Directions:

Choose the Correct **ANTONYM**.

- Q.36 OCCASIONALLY**
A. Intermittently B. Timely C. Recurrently D. Incessantly
- Q.37 OPERATION**
A. Venture B. Listlessness C. Triviality D. Obligation

Directions:

Choose the correct **WORD** with Respect to the Given Context.

- Q.38** You are magnanimous when you have a golden opportunity to destroy your _____ but you let him live.
A. Nemesis B. Haughty C. Labyrinth D. Hideous
- Q.39** Expenses _____ when you come to add refreshments and other things.
A. Bolster up B. Collapse C. Descend D. Mount up

Directions:

Choose the Correct **Spelling**

- Q.40** A. Provedential B. Providintial C. Providantial D. Providential

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
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Roll No.

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2	3	4	5	6	7	8
9	0	1	2	3	4	5

Use Blue Ball Point Pen

2. Please Fill in The Roll No.

3. It is Important That The Circle is Completely Filled In The Example Below.

Correct Example:

Incorrect Examples:

SUBJECT: English CH/UNIT# 08

NAME: _____

R. NO. (IN WORDS): _____

CLASS: _____ SESSION: _____

SIGN: _____ DATE: _____