# GUJCET-PCE-2020

Test Booklet Set No. 07



## DO NOT open this Test Booklet until you are asked to do so.

#### Important Instructions:

- The Physics and Chemistry test consists of 80 questions. Each question carries 1 mark. For each correct response, the candidate will get 1 mark. For each incorrect response 1/4 mark will be deducted. 1) The maximum marks are 80.
- This Test is of 2 hours duration. 2)
- Use Black Ball Point Pen only for writing particulars on OMR Answer Sheet and marking 3) answers by darkening the circle '.'
- Rough work is to be done on the space provided for this purpose in the Test Booklet only. 4)
- On completion of the test, the candidate must handover the Answer Sheet to the Invigilator 5) in the Room / Hall. The candidates are allowed to take away this Test Booklet with them.
- The Set No. for this Booklet is 07. Make sure that the Set No. printed on the Answer Sheet is the 6) same as that on this booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
- The candidate should ensure that the Answer Sheet is not folded. Do not make any stray marks on 7) the Answer Sheet.
- Do not write your Seat No. anywhere else, except in the specified space in the Test Booklet 8) Answer Sheet.
- Use of White fluid for correction is not permissible on the Answer Sheet. 9)
- Each candidate must show on demand his / her Admission Card to the Invigilator. 10)
- No candidate, without special permission of the Superintendent or Invigilator, should leave his / her 11) seat.
- Use of Simple (Manual) Calculator is permissible. 12)
- The candidate should not leave the Examination Hall without handing over their Answer Sheet to the 13) Invigilator on duty and must sign the Attendance Sheet (Patrak - 01). Cases where a candidate has not signed the Attendance Sheet (Patrak - 01) will be deemed not to have handed over the Answer Sheet and will be dealt with as an unfair means case.
- The candidates are governed by all Rules and Regulations of the Board with regard to their conduct 14) in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of the Board.
- No part of the Test Booklet and Answer Sheet shall be detached under any circumstances. 15)
- The candidates will write the Correct Test Booklet Set No. as given in the Test Booklet / Answer 16) Sheet in the Attendance Sheet. (Patrak - 01)

### **PHYSICS**

- 1) A sine voltage having maximum value of 283 V & frequency of 50 Hz is applied to LCR series connection where  $R = 3\Omega$ , L = 25.48 mH & C = 796  $\mu$ F. Then impedence is \_\_\_\_\_ at resonance condition.
  - (A)  $3\Omega$

(B) 5Ω

(C) -15Ω

- (D)  $4\Omega$
- 2) What is correct for real transformer?
  - (A)  $P_i > P_o$

(B)  $P_i < P_o$ 

(C)  $P_i = P_o$ 

- (D) All are correct
- 3) The source of displacement current is \_\_\_\_\_.
  - (A) Changing Magnetic Field
  - (B) Changing Electric Field
  - (C) Static Electric Field
  - (D) Static Magnetic Field

4)	The range of wavelength for Ul	traviolet is from to
	(A) 1 mm to 700 nm	
	(B) 0.1 m to 1 mm	2 * *** *
	(C) •700 nm to 400 nm	
	(D) 400 nm to 1.0 nm	
5)	The earth rotates on its axis take time it takes at sun from earth to	s 24 hours to complete one revolution. How much o have shift of 1°?
	(A) 4 sec.	(B) • 4 hrs.
	(C) 4 min.	(D) 24 hrs.
6)	For glass lens $f = +50$ cm. Then	power of lens is
	(A) +2 D	(B) −2 D
	(C) • +0.02 D	(D) -0.02 D
7)	A lens $(n = 1.5)$ is placed in a liquid should be	quid. To make it disappear, the value of n of liquid
	(A) $n < 1.5$	(B) $n = 1.5$
	$(C)^{\circ} n > 1.5$	(D) any $n$

8)		ype of nature of image een pole & centre?	formed	for an object place	d an axis of concave
	(A) Real, in	nverted & magnified			
	(B) Virtual	, erect & diminished		4	
	(C) Real, in	nverted & diminished		<b>1</b>	
	(D) Virtual	, erect & magnified			
9)	The distance blue-green li will be?	between two slits is 3 ight of wavelength 500	3 mm & s 3 nm is u	screen is placed at sed then distance b	2 m distance. When petween two fringes
	(A) · 0.5 mm	1	(B)	0.43 mm	
	(C) 0.33 m	m	(D)	0.4 mm	
10)		tance is ray optics a govavelength is 500 nm?		oximation when the	he aperture is 4 mm
	(A) 8 m		(B)	32 m	
	(C) 18·m		(D)	6 m	
11)	Resolving po	ower of microscope is			
	$(A)  \frac{1.22  ns}{2n\lambda}$		(B)	$\frac{2\lambda}{1.22n\sin\beta}$	
	(C) $\frac{1.22n}{2\lambda\sin \lambda}$	3	(D)	$\frac{1.22\lambda}{2n\sin\beta}$	

	(4)		How much is the De-Broglie wavelength for an electron accelerated by an 100V potential difference?					
	(A)	12.3 nm	(B)	123 nm				
	(C)	0.123 nm •	(D)	0.123 cm				
13)		threshold frequency of cesium is eV.	5.16	$\times$ 10 <sup>14</sup> Hz. Then its work-function is				
	(A)	1.12	(B)	2.14				
	(C)	1.14	(D)	4.12				
14)	The	nucleus of gold is abouttin	nes he	eavier than an α-particle.				
	(A)	100	(B)	50				
	(C)	10,∍	(D)	200				
100	100	ground state energy of hydrogen a ectron in this state?	tom is	s –13.6 eV. What is the kinetic energy				
	(A)	−27.2 eV	(B)	−13.6 eV				
(	(C)	+13.6 eV	(D)	+27.2 eV				
		(Space for Roug	gh W	Vork)				

16)	The minimum	wavelength	for I	Balmer	series	is	
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(A)  $-\frac{36}{5R}$ (C)  $\frac{4}{R}$ 

(B)  $\frac{9}{R}$ 

(D)  $\frac{R}{4}$ 

17) Calculate the energy equivalent of 1g of substance

(A)  $-6 \times 10^{11} \text{ J}$ 

(B)  $9 \times 10^{13} \,\text{J}$ 

(C)  $4 \times 10^{12} \text{ J}$ 

(D)  $7 \times 10^{12} \,\mathrm{J}$ 

18) In which process neutron is converted into proton?

 $(A) = \beta^{-} decay$ 

(B)  $\beta^+$  decay

(C) α - decay

(D) γ decay

The Forbidden gap between conduction band & valance band is maximum

(A) · Semiconductor

(B) Insulator

(C) Metal

(D) Superconductor

20) The below truth table is for which gate?

In	put	Output		
A	В	Y		
0	0	1		
0	1	1		
1	0	1		
1	1	0		

(A) NOR

(B) AND

(C) OR

- (D) NAND
- 21) For a pure Si crystal has  $5 \times 10^{28}$  atom m<sup>-3</sup>. It is doped by 1 PPM concentration of pentavalent As. Calculate the number of electron & holes.

Given that ni =  $1.5 \times 10^{16} \,\text{m}^{-3}$ 

- (A)  $\sim 4.5 \times 10^{-9} \,\mathrm{m}^{-3}$
- (B)  $5.4 \times 10^9 \,\mathrm{m}^{-3}$
- (C)  $4.5 \times 10^9 \,\mathrm{m}^{-3}$
- (D)  $5.4 \times 10^{-9} \,\mathrm{m}^{-3}$

22)	In diode, Increasing the Forward voltage, the thickness of depletion layer _	
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- (A) Decreases
- (B) Does not change
- (C) Increases
- (D) Cannot be decided

23) If charge q is placed on one of the vertex of a cube. Then flux passing through any one surface of cube is \_\_\_\_\_.

(A) ' 
$$\frac{q}{\varepsilon_0}$$

(B) 
$$\frac{q}{6\varepsilon_0}$$

(C) 
$$\frac{q}{24\varepsilon_0}$$

(D) None of these

24) Two point electric charges  $+10^{-8}$  C and  $-10^{-8}$  C are placed 0.1 m apart. Find the magnitude of Total Electric Field at the center of the line joining the two charges.

(A). Zero

(B)  $3.6 \times 10^4 \,\mathrm{NC}^{-1}$ 

(C)  $7.2 \times 10^4 \,\mathrm{NC}^{-1}$ 

(D)  $12.96 \times 10^4 \text{ NC}^{-1}$ 

- 25) The charge density of uniformly charged infinite plane is  $\sigma$ . A simple pendulum is suspended vertically downward near it. Charge  $q_0$  is placed on metallic bob. If the angle made by the string is  $\theta$  with vertical direction then \_\_\_\_\_.
  - (A)  $\sigma \propto \tan \theta$

(B)  $\sigma \propto \frac{\tan \theta}{q_0}$ 

(C)  $\sigma \propto \frac{\cot \theta}{q_0}$ 

- (D)  $\sigma \propto \frac{q_0}{\tan \theta}$
- 26) The dimensional formula of Polarization P is \_\_\_\_\_.
  - (A)  $L^2 A^{-1} T^{-1}$
  - (B)  $M^1 L^{-2} A^1 T^{1}$
  - (C)  $L^{-2} A^{-1} T^{-1}$
  - (D)  $L^{-2} A^1 T^1$
- 27) If relative permittivity for any substance is 80 then its electric susceptibility is \_\_\_\_\_\_.
  - (A) 79
  - (B)  $7 \times 10^{-10}$
  - (C)  $7 \times 10^{-9}$
  - (D)  $81 \times 10^{-10}$

28)	100	capacitor is connected w V supply. Now after removed to form new capacitor	ing battery if	ly & 3µF capacitor is connected with two plates of same type of charges are I difference isV.
	(A)	200	(B)	333
	(C)	80	(D)·	· 75
29)	The maxi	emf of a car battery is 1	2V of intern	nal resistance of battery is 0.4Ω thenW.
	(A) b	4.8	(B)	360
	(C)	30	(D)	Zero
			* . * 74	
30)	point	t is $5\Omega$ & at steam point is the resistance of a platinu	$5.23 \Omega$ . Who	itinum resistance thermometer at a ice en the thermometer is inserted in a hot $795 \Omega$ . Calculate the temperature of the
	(A)	345.65 °C	(B)	365.65 ℃
	(C) *	354.56 °C	(D)	245.65 °C
31)	electr		V & internal	nternal resistance of $0.1\Omega$ ) and other resistance of $0.2 \Omega$ ) are connected in emf will beV.
	(A)	1.33	(B)	2.57
	(C)·	2.67	(D)	0.38
	AND	(Space fo	or Rough	Work)

32	) The	source of magnetic field is	&	source of electric field is
	(A)	scalar, vector		
	(B)	scalar, scalar		
	(C)	vector, vector		
	(D)	vector, scalar		
33)	field is in influ be its (A)	of 2T in the horizontal axis coincided of 2T in the horizontal direction the direction of the field. The co	exists il rota ent of  (B)	placed in a vertical plane & is free to with its diameter. A uniform magnetic is such that initially the axis of the coil ites through an angle of 90° under the Inertia of coil is 0.1 kg m <sup>2</sup> . What will 10 rad/s
34)				g wire of radius 5 cm. Then magnetic urved surface is $\_\_\_ \times 10^{-5}$ T.
	(A)	$2.4 \times 10^5$	(B)	$6.7 \times 10^{-5}$
	(C)	$2.4 \times 10^{-5}$	<b>(D)</b>	2.4

35) In India Declination at Delhi is	Delhi is
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(A) 0° 58' E

(B) 0°41' W

(C) 0°41' E

(D) 0° 58' W

The relative permeability in a core of a solenoid is 400. The windings of a solenoid 36) are insulated from the core and carry a current of 2A. If the number of turns is 1000 per meter. Then magnetic Intensity inside the core of solenoid is

(A)  $2.5 \times 10^3$ (C)  $2.5 \times 10^{-3}$ 

(B)  $2 \times 10^3$ 

(D)  $2 \times 10^{-3}$ 

37) The coil having 1000 turns & Area of 0.10 m<sup>2</sup> rotates at half a revolution per second & it is placed in a uniform magnetic field of 0.01 T perpendicular to the axis of rotation of coil. Then max emf voltage generated in coil is \_\_\_\_\_V.

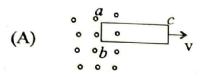
(A) 3.14

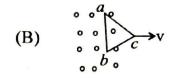
(B) 5.0

(C) 0.5

(D) 0.314

38) Out of the following given loops in which loop, the direction of induced current is from  $a \rightarrow c \rightarrow b$ .





(C) 
$$a \xrightarrow{\times \times \times \times \times} v$$
  
 $b \xrightarrow{\times \times \times} c \xrightarrow{\times} v$ 

(D) 
$$\begin{array}{c} \times & \times & a \times \\ \times & \times & \times \\ \times & \times & b \times \end{array}$$

39) Which is not the unit of Inductance?

(B) 
$$V. s. A^{-1}$$

(C) 
$$WbA^{-1}$$

(D) Wb. s. 
$$A^{-1}$$

- **40)** A bulb of 100 W rating is connected with 220 V supply. The resistance of bulb is
  - (A)  $2.2 \Omega$

(B)  $484 \Omega \, \text{m}^{-1}$ 

(C) 484 Ω

(D)  $\sim 2.2 \times 10^{-3} \,\Omega \, \text{m}^{-1}$ 

### **CHEMISTRY**

41)	The divalent ion of which of the following element in aqueous solution has magnetic moment 5.92 BM?					
	(A)	Fe	(B) Cr			
	(C)	Co	(D). Mn			
42)	trans	ough Zirconium belongs to 4d-traition series, even then they show	ansition series and I v similar physical ar	Hafnium belongs to 5d and chemical properties		
	(A)	Both have similar atomic radius				
	(B)	Both have same number of elec	trons			
: ¥ (%)	(C)	Both belongs to d-block				
	(D)	Both belongs to the same group	of the periodic tabl	е		
43)		ch isomerism is possible in hexa complex?	ammine cobalt (III)	hexa cyanido chromate		
	(A)	Ionisation isomerism				
	<b>(B)</b>	Co-ordination isomerism				
	(C)	Linkage isomerism				
	(D)	Solvate isomerism		7.4		
				,		

44)	Whi	ich of the following complex will a	bsorb	maximum wavelength of light?
	(A)	$[Co(NH_3)_6]^{3+}$	(B)	[Co(NH <sub>3</sub> ) <sub>5</sub> (H <sub>2</sub> O)] <sup>3+</sup>
	(C)	$[\operatorname{CoCl}(\operatorname{NH}_3)_5]^{2+}$		$\left[\operatorname{Co}\left(\operatorname{CN}\right)_{6}\right]^{3-}$
45)	The cond	complex having highest electrical c litions is	onduc	ctivity in aqueous solution under similar
	(A) '	Tetra aqua dichlorido cobalt (III)	chlo	ride
	(B)	Triaqua trichlorido cobalt (III)		
	(C)	Penta aqua chlorido cobalt (III)	chlori	de
	(D)	Hexa aqua cobalt (III) chloride		
46)	How C <sub>4</sub> H <sub>9</sub>	many optically active isomers ar Br?	e pos	sible in the compound having formula
	(A)	1	<b>(B)</b>	2
	(C)	3	(D)	2 4
		N i		Max.
47)	R'-0	$C1 \xrightarrow{\text{Na/ether}} 2, 3 - \text{dimethyl bu}$	ıtane	. What is R' in the above reaction?
	(A)	sec-butyl		
	(B) »	isobutyl		
	(C)	isopropyl		
	(D)	n-propyl		
		-		
				5.5 · 5 · ·
		(Space for Ro	ugh	Work)

- 1 mole of metal 'M' reacts completely with alcohol to give 1.5 moles of H<sub>2</sub>. Then what will be the valency of metal 'M'?
  - (A) 2

 $(B) \cdot 3$ 

(C) 4

(D) 1

49) 
$$CH_2$$
  $CH_2$   $CH_3$   $NaBH_4$  "X". What is "X" in the reaction?

(A) 
$$\begin{array}{c}
OH \\
-CH_2-C-OCH_3 \\
0
\end{array}$$

(B), 
$$CH_2$$
- $CH$ - $CH_3$ 

(C) 
$$CH_2-CH_2-CH_2-OH$$

(D) 
$$CH_2-CH_2-CH_3$$

50) Which of the following has highest boiling point?	
(A) Pentanal	
(B) Ethoxy ethane	
(C) n-Butane	
(D) Pentan - 1 - ol	•.
51) Which reagent is required to convert cyclohexanol to cycl	ohexanone?
(A) Anhydrous CrO <sub>3</sub>	
(B) $O_3/H_2O - Zn dust$	
(C) PCC	
(D) DIBAL-H	
52) Which of the following acid has highest pKa value?	
(A) FCH,COOH	3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
(B) O <sub>2</sub> NCH <sub>2</sub> COOH	i.
(C) NCCH <sub>2</sub> COOH	
<del>-</del>	
(D) ~C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> COOH	
(Space for Rough Work)	2

53)	3) $C_6H_5CH_2 - MgBr \xrightarrow{(1)CO_2/\text{ether}} X' \xrightarrow{NaOH + CaO} Y'$ ? What	at is the final			
	product in this reaction?				
	(A) $C_6H_6$				
	(B) $C_6H_5CH_2CH_3$				
	(C) $C_6H_5CH_3$				
	(D) C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH				
54)	4) Which of the following compound has least Basic strength?				
	(A) $(C_2H_5)_2NH$ (B) $C_6H_5NH_2$				
	(C) $NH_3$ (D) $C_2H_5NH_2$				
55)	The source of nitrogen in Gabriel synthesis of amines is				
	(A) $C_6H_4(CO)_2N^-K^+$	ſ			
	(B) NaN <sub>3</sub>				
	(C) KCN	,			
	(D) NaNO <sub>2</sub>				
	hts.				
56)	The best reagent for converting 2-Phenyl propanamide into 1-Phe	nyl ethanamine			
,	is	ny i cenanamine			
	(A) $LiAlH_4$ (B) $NaBH_4$				
	(C) $H_2/Pt$ (D) 'NaOH/Br <sub>2</sub>				
(Space for Rough Work)					

57) Giving 'T' symbol for true statement and 'F' symbol for false statement, select the correct option						
	(i)	Most naturally occuring amino acids	ha	av	e L	-configuration
	(ii) β-D-ribose sugar is present in RNA					
	(iii) Amylose is water insoluble component made up of $\alpha - D - (+)$ glucose units.					
	(iv)	All monosaccharides are non-reducin	12	2 S	uga	rs.
	(A)	TTFT (B)			TF	
	(C)	TFTF (D)			TT	
58) Which amino acids are used in the preparation of Nylon - 2 - Nylon 6?						
	(A)	Amino Caproic acid and glycine				
	(B)	Phenol and Formaldehyde				
	(C)	Phthalic acid and glycine				
(D) Ethylene glycol and Phthalic acid						
<b>59</b> ) Z	Zeigla	r Natta catalyst is a mixture of			_•	
(4	A) 7	$\operatorname{FiCl}_3 \& (\operatorname{C}_2\operatorname{H}_5)_4\operatorname{Al}$				
(1	В) Т	$\operatorname{CiCl}_4 \& (\operatorname{C}_2 \operatorname{H}_5)_2 \operatorname{Al}$				
(0	C) T	$Cl_2 & (C_2H_5)_3 Al$				
(I	D) •(C	C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> Al & TiCl <sub>4</sub>				
(C. Doroth Mork)						
(Space for Rough Work)						

60)	Which antihistamine drug is used to prevent acidity?			
	(A) Morphine			
	(B) Phenelzine			
	(C) Cimetidine			
	(D) Equanil			
61)	Name the sweetner which is a trichloro derivative of Sucrose?			
	(A) Alitame			
	(B) Sucralose			
	(C) Saccharin			
	(D) Aspartame			
62)	The deficiency of which vitamin causes scurvy?			
	(A) Ascorbic acid			
	(B) Riboflavin			
	(C) Thiamine			
	(D) Pyridoxine			

63	63) Which of the following statement is correct?								
	(A) In the unit cell of rhombic Sulphur, the axial distances are equal and the value of each axial angle is 90°								
	<b>(B)</b>								
	(C)								
	(D) In MnO, all the domains are aligned in the same direction								
64)	What are the fractions of $Fe^{2+}$ and $Fe^{3+}$ in $Fe_{0.93}$ O respectively?								
	(A)	0.75, 0.25	(B)						
	(C)*	0.93, 0.07	(D)	0.80, 0.20					
65)	Maximum amount of a solid solute that can be dissolved in a specified amount of a given liquid solvent does not depend upon								
	i)	Temperature							
	ii)	Nature of solute							
	iii)	Pressure							
	iv)	Nature of Solvent							
	(A)	(ii) & (iv)	(B)	(ii)					
	(C)	(i) & (iii)	(D)	(iii)					
66).	66) The molality of aqueous solution of any solute having mole fraction 0.25 is								
	(A) 3	33.33 m	(B)	16.67 m					
	(C) 1	18.52 m	(D)	9.26 m					
		(Space for Rou	gh V	Vork)					
				• *					

67) The osmotic pressure of 0.5 M aqueous solution of CH<sub>3</sub>COOH having 2pH at temperature T is (B) 1.02 RT (A) 0.51 RT (D) 0.102 RT (C) 0.051 RT 68) On the basis of the given following electrode potentials, which one is the strongest reducing agent?  $E_{MnO_4^-|Mn^{2+}}^{o} = 1.51V$  $E_{Cr_2O_7^{2-}|Cr^{3+}}^{o} = 1.33 \text{ V}$  $E_{Br_2|Br^-}^o = 1.09 \, V$ (B)  $Mn^{2+}$ (A) Br (C) Cr3+ For which of the following electrolytes the graph of  $\wedge_m$  against  $\sqrt{C}$  gives a negative slope. (B) Sodium acetate (A) Ammonium hydroxide (C) Acetic acid (D) Water On electrolysis of aqueous solution of a halide of a metal 'M' by passing 1.5 ampere 70) current for 10 minutes deposits 0.2938 g of metal. If the atomic mass of the metal is 63 gm/mole, then what will be the formula of the metal halide? (B) MCl<sub>2</sub> (A) MCl (D) MCl (C) MCl<sub>2</sub>

- 71) In the presence of a catalyst, the heat evolved or absorbed during the reaction \_\_\_\_.
  - (A) May decrease or increase
- (B) Increases

(C) Decreases

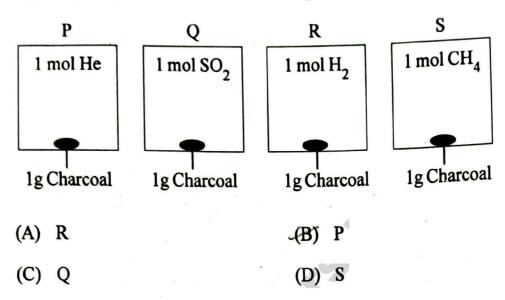
- (D) Remains unchanged
- 72) Which of the following graph has intercept equal to zero?
  - (A)  $\log K \rightarrow \frac{1}{T}$

 $(B) \quad \log \frac{[R]_0}{[R]} \to t$ 

(C)  $\log[R] \rightarrow t$ 

- (D)  $[R] \rightarrow t$
- 73) Time required to decompose SO<sub>2</sub>Cl<sub>2</sub> to half of its initial amount is 40 minutes. If the decomposition is a first order reaction, What will be the rate constant of the reaction?
  - (A)  $2.88 \times 10^{-4} \,\mathrm{s}^{-1}$
  - (B)  $2.88 \times 10^{-2} \text{ s}^{-1}$
  - (C)  $1.73 \times 10^{-2} \,\mathrm{s}^{-1}$
  - (D)  $1.73 \times 10^{-4} \text{ s}^{-1}$
- 74) Which of the following is a reversible sol?
  - (A) Fe(OH)<sub>3</sub> sol
- (B)  $As_2S_3$  sol
- (C) Gelatin sol
- (D) Gold sol

75) From the figure, in which of the following vessel, the pressure of the gas is the highest. [Temperature and volume of the gases are the same in each vessel].



- 76) Which soluble complex is formed in the leaching process of Gold?
  - (A)  $[Au(OH)_4]^{2-}$
  - (B)  $[Au(CN)_4]^2$
  - (C)  $[Au(OH)_2]$
  - (D)  $[Au(CN)_2]^T$
- 77) Which of the following slag is formed during the extraction of iron in the blast furnace?
  - (A) CaSiO<sub>3</sub>

(B)  $FeCO_3$ 

(C) CaCO<sub>3</sub>

(D) FeSiO<sub>3</sub>

- 78) Which of the following is the correct order?
  - (A) Ionic character: MF < MCI < MBr < MI
  - (B) Stability: HI < HBr < HCl < HF
  - (C) Acidic Strength: HClO<sub>4</sub> < HClO<sub>3</sub> < HClO<sub>2</sub> < HClO
  - (D) Electron gain enthalpy: I < Br < Cl < F
- 79) In which of the following oxoacid of Sulphur, S-O-O-S bond is present?
  - (A) H2S2O4

(B) H<sub>2</sub>S<sub>2</sub>O<sub>8</sub>

(C)  $H_2S_2O_7$ 

- (D)  $H_2S_2O_3$
- 80) Concentrated HNO<sub>3</sub> oxidise white phosphorus into which substance?
  - (A)  $H_3PO_4$

(B) H<sub>4</sub>P<sub>2</sub>O<sub>7</sub>

(C)  $H_3PO_2$ 

(D) H<sub>3</sub>PO<sub>3</sub>