#### Pre Board

#### ECONOMICS (030)

Time allowed: 3 hours

#### Maximum Marks: 80

#### Marking Scheme

### SECTION - A (Macro Economics)

1 It will fall.	1
2 The difference in the value of imports and exports.	1
3 Ans – c (0.25)	1
4 Stock variable because it is measured at a point of time.	1
OR	
Currency, Demand Deposits	
5 medium of exchange	1
6 Ans – c (subsidies)	1
7 All those receipt which either create liabilities or reduces assets of the economy.	1
8 Ans – a (rises)	1
9 Zero.	1
10 It refers to the gap by which the Actual AD exceeds the AD required to establish full employment.	1
a) It will not be included in domestic factor income as the branches of the bank belong to	3
the foreign territory.	
b) It will not be included as it is a transfer income.	
OR	
It may be an index of welfare but this may not be always true because of the following reasons;	
a) Unequal distribution of income	
b) Non-monetary transaction not included	
i) Externalities not accounted	
12 MPC = 1-0.3 = 0.7	3
Y = C+I	
I=Y-C	
I = 800 - [100 + 0.7(800)]	
i) I= 140	
13 i) Revenue expenditure as it doesn't create asset nor reduce liability	4
ii) Capital receipt as it reduces asset.	
OR	
Economic Growth implies a sustainable increase in real GDP of an economy.	
i) If the government provides tax rebates and other incentives for productive	
activities, it can stimulate savings and investments in the economy.	
Spending on infrastructure in the economy promotes the production activities across different	
sectors.	
14 Cradit creation explanation Example	1
14 Credit creation explanation . Example	4
15 Medning . determination	1+5-4
Pank Pate CPP SLP OMO Pope Pate Margin Pequirement etc.	0
Ballk Rate, CRR, SER, ONO, Reportate, Margin Requirement, etc. (Apy 4 measures to be explained) $= 4$	
An economy is said to be operating at underemployment equilibrium level if the planned	
aggregate expenditure falls short of the available output in the economy corresponding to full	
employment level. It results into excess of output available over the anticipated aggregate	
demand at full employment level. To tackle such a situation the aggregate demand has to be	

	increased up to the level that stocks can be cleared.	
	Following measures may be taken for the same:	
	i) Decrease in taxes (explanation)	
	ii) Increase in money supply (explanation)	
17	a) $GDP_{FC} = 200+300+1600+400+600-400+100$	6
	= 2800 crore	
	b) $GDP_{MP} = GDP_{FC} + NIT$	
	= 3040 cr	
	$NFIA = GNP_{MP} - GDP_{MP}$	
	= 2800 - 3040 = -(240)	
	Factor Income to Abroad = Factor Income from Abroad – NFIA	
	= 50 - (-)240 = 290  cr	
	SECTION-B (Indian Economic Development)	
18	Tariff and Quota	1
19	Jute industry as most of the jute producing areas went to Pakistan.	1
20	Curbing Corruption and arresting black money (any 2 valid points)	1
21	ANS-(b)	1
22	The stock of skill, ability, expertise, etc. embodied in the people.	1
	OR	
	All the man made inputs which are required for further production.	
23	Greater physical work in rural area compared to urban area.	1
24	It has increased the pressure on the absorptive capacity of the environment.	1
25	Golden Revolution.	1
26	Number of infants (0-1year) dying before reaching 1 year per 1000 live birth.	1
27	Less people below poverty line, more % people using improved sanitation	1
28	Use of solar lightings for street	3
	Wastage of electricity to be reduced by creating awareness	
	Use of LED bulbs	
	Energy efficient Star rated equipments (any valid suggestion)	
	OR	
	Displacement of workers from large industries in urban areas	
	Slow growth of employment opportunities in organized sector	
	Demand for casual workers increasing in constructions, trade, etc (any 2 relevant reasons)	
29	The environmental degradation in India is caused due to	3
	a. Poverty induced environmental degradation	
	b. Affluence induced industrial pollution	
30	Discriminatory Tariff policy	4
	Competition from machine made products	
	New pattern of demand	
	Introduction of railways	
	Disappearance of princely states (any 4 relevant points)	
31	Through quality vocational training skilled employees are prepared	4
	Meets the modern pattern of market demand for labour	
	Enables unemployed and unskilled youth employable	
	Thus reduces poverty(any other valid argument)	
	OR	
	Yes. Because :	
	i) It provides equality of opportunity	
	ii) Reduces income inequality	
32	Brief explanation of the table. China has followed the classical path of development, a gradual	4
	shift from primary to secondary and then to service sector. Whereas India and Pakistan both	
	directly shifts from primary to the tertiary sector. In all 3 countries service sctor is the biggest	
	contributor to the GDP.	
33	Correct definition.	6
	a. Use of non-conventional energy	

	b.	Organic farming	
	с.	Use of bio-compost	
	d.	Reduce, Recycle and Reuse of Resources	
	e.	Waste management	
	f.	Public awareness	
	g.	Taxes and fines on harmful entities	
		(or any other valid suggestion)	
		OR	
		<ul> <li>Promoting economic growth – GDP and Per capita income (brief explanation)</li> </ul>	
		<ul> <li>PAPS (Poverty alleviation programmes) – some programmes by the Govt.</li> </ul>	
	Pro	viding basic minimum needs – PDS, ICDS & Mid day meal scheme, et	
34		a. Importance of small scale industries:	6
		b. Greater employment opportunities	
		c. Equity in distribution of income	
		d. Decentralization	
		e. Less pressure on agriculture	
		f. Less capital requirement	
		g. Immediate increase in production (any relevant points with brief description)c.	

#### KENDRIYA VIDYALAYA SANGATHAN (KOLKATA REGION) MARKING SCHEME of QUESTION PAPER

1<sup>st</sup> PRE-BOARD Examination 2019-20

CLASS: XII Subject : MATHEMATICS (Code-041)

<u>Q. No.</u>	VALUE POINTS	<u>MARKS</u>
	<u>Section – A</u>	
Q. No.	Q. No. 01 to 10: Multiple Choice Questions.	Marks
01.	(d) (x+4)/3.	1
02.	(b) 5.	1
03.	(b) [-1, 1].	1
04.	(c) 2π/3.	1
05.	(b) 2.	1
06.	(c) n x m.	1
07.	(b) 8.	1
08.	$(d) (A + B)^{-1} = B^{-1} + A^{-1}.$	1
09.	(b) 2.	1
10.	(b) f(x) is everywhere continuous	1
	but not differentiable at $x = (2h+1)\pi/2$ , $n\in Z$ .	Marka
Q. NO.		IVIarks
11	(/4, /2).	1
11.	6π cm <sup>2</sup> /cm	<b>1</b>
12.	$e^x \sec x + C$	1
	$tan^7x$	-
	<del>7</del> +C.	
13.	OR	1
	$\frac{\tan^3 x}{3} - \tan x + x + C.$	
14.	72 - 12 = 60.	1
15.	0.	1
Q. No.	Q. No. 16 to 20: Answer the following questions.	Marks
46	Expressing $\frac{dy}{dx} + \frac{1}{x \log x}$ . $y = \frac{2}{x}$ , and getting $P = \frac{1}{x \log x}$ .	1/2
16.	Finding Integrating Factor I. $F = e^{\int P dx} = \log x$	1/2
	Order is 2.	1/2
17.	Degree is not defined.	1/2
	Writing correct answer: $+\left(-\frac{2}{3}, -\frac{3}{6}\right)$	1
	(1) = (1)	
18.	$\vec{a} = -2\hat{i}+\hat{i}+2\hat{k}$	
	Finding $\hat{a} = \frac{\alpha}{ \vec{a} } = \frac{\alpha}{3}$ .	1/2
	Getting required vector $9\hat{a} = 3(-2\hat{i} + \hat{j} + 2\hat{k})$ .	<i>Y</i> <sub>2</sub>
19.	Writing correct answer: $\mathbf{r} = (2\hat{\mathbf{i}} - 3\hat{\mathbf{j}} + 5\hat{\mathbf{k}}) + \lambda(3\hat{\mathbf{i}} + \hat{7}\mathbf{j} - 2\hat{\mathbf{k}}).$	1
20.	$E(X^2) = \sum X^2$ . $P(X) = 100/10 = 10$ .	1
Q. No.	<u>Section – B</u>	Marks
	$y = \sqrt{\sin x + y} \Longrightarrow \frac{dy}{dx} = \frac{1}{2\sqrt{\sin x + y}} \cdot (\cos x + \frac{dy}{dx}).$	1/
21	Expressing $dy = \frac{1}{2\sqrt{\sin x + y}}$ $dx$	/2 1/
21.	Expressing $\frac{1}{dx} = \frac{1}{2y} \cdot (\cos x + \frac{1}{dx})$ .	<sup>7</sup> 2
	Simplifying and getting $\frac{dy}{dx} = \frac{\cos x}{2y-1}$ .	1
	$\int_{-\infty}^{1} \frac{1}{x^2 - x^2} = \frac{1}{x^2 - x^2}$	
22.	$\frac{dy}{dy} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$	1/2
	$\frac{1}{dx} - \frac{1}{3x^2_3} = \frac{1}{48} dx = 04.$	1/2
	$\Delta y = \frac{dy}{du}$ . $\Delta x = \frac{1}{40}$ . $1 = 0.021$ .	<sup>1</sup> /2
	Approximate value = $y + \Delta y = 4 + 0.021 = 4.021$ . Ans.	/2

	OR	
	Taking log of $y = \left(\frac{1}{x}\right)^x$ i.e. $\log y = x \cdot \log(\frac{1}{x})$ . Finding $\frac{dy}{dx} = \left(\frac{1}{x}\right)^x \cdot [\log(\frac{1}{x}) - 1]$ . For maximum value of $y$ , $\frac{dy}{dx} = 0 \implies x = \frac{1}{e}$ .	1/2 1/2 1/2 1/2
	Hence, the maximum value is $e^{\overline{e}}$ .	
23.	Any vector perpendicular to both vector $\vec{a}$ and vector $\vec{b}$ is given by $\vec{a} \ge \vec{b}$ where $\vec{a} = 2\hat{i} - \hat{j} + 2\hat{k}$ and $\vec{b} = 4\hat{i} - \hat{j} + 3\hat{k}$ . $\vec{a} \ge \vec{b} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 2 & -1 & 2 \\ 4 & -1 & 2 \end{vmatrix} = -\hat{i} + 2\hat{j} + 2\hat{k} = \vec{r}$ (say). Required vector is $\hat{r} = 6 = -\hat{r}^{\hat{r}} = 6 = -2\hat{i} \pm 4\hat{i} \pm 4\hat{k}$	½ ½ 1
	$\frac{ \vec{r} }{ \vec{r} } = \frac{1}{2i + j} + \frac{1}{4k}$	
24.	Projection of vector $\vec{a}$ on vector $\vec{b}$ is given by $\frac{a.b}{ \vec{b} }$ . $\vec{a}.\vec{b} = (\lambda\hat{i} + \hat{j} + 4\hat{k}).(2\hat{i} + 6\hat{j} + 3\hat{k}) = 2\lambda + 18$ . Also, $ \vec{b}  = 7$ . Projection $\frac{\vec{a}.\vec{b}}{ \vec{b} } = 4 \Rightarrow \frac{2\lambda + 18}{7} = 4 \Rightarrow \lambda = 5$ .	½ 1 ½
	For any three vectors $\vec{a}$ , $\vec{b}$ and $\vec{c}$ , $\vec{a} \ge (\vec{b} + \vec{c}) + \vec{b} \ge (\vec{c} + \vec{a}) + \vec{c} \ge (\vec{a} + \vec{b})$ $= \vec{a} \ge \vec{b} + \vec{a} \ge \vec{c} + \vec{b} \ge \vec{c} + \vec{b} \ge \vec{a} + \vec{c} \ge \vec{a} + \vec{c} \ge \vec{b} \le \vec{c} = 0.$	1 1
25.	Let the required point be R (4, y, z) which divides PQ in ratio $\lambda$ : 1. By section formula, $4 = \frac{5\lambda+2}{\lambda+1} \Rightarrow \lambda = 2$ . Hence, $z = \frac{-2\lambda+1}{2+1} \Rightarrow z = -1$ .	½ ½ 1
26.	Here $P(A) = \frac{1}{2}$ , $P(B) = \frac{7}{12}$ and $P(\overline{A} \cup \overline{B}) = \frac{1}{4}$ $\Rightarrow P(\overline{A \cap B}) = \frac{1}{4} \Rightarrow 1 - P(A \cap B) = \frac{1}{4} \Rightarrow P(A \cap B) = \frac{3}{4}$ . and $P(A) X P(B) = \frac{1}{2} X \frac{7}{12} = \frac{7}{24}$ . Here, $P(A \cap B) \neq P(A) X P(B)$ . Thus, A and B are not independent.	1 1
Q. No.	<u>Section – C</u>	Marks
27.	For proving one-one function: $f(x_1) = f(x_2) \Rightarrow x_1 = x_2$ . For proving onto function: $y = f(x) \Rightarrow x = \frac{-3 + \sqrt{y-6}}{2}$ . For concluding: $x \in N$ as $y > 6$ in S. Thus f is invertible. For writing Inverse of f as $f^{-1}(x) = \frac{-3 + \sqrt{x-6}}{2}$ .	1 1 1 1
OR	For finding: $y = f(x) \Rightarrow x = \frac{-3+\sqrt{y-6}}{2}$ , $x \in N$ as $y > 6$ in S. Let $g(y) = \frac{-3+\sqrt{y-6}}{2}$ , $g: S \to N$ . For Showing: $gof(x) = x = I_N$ . For showing: $f \circ g(y) = y = I_S$ . For concluding: $f$ is invertible. For writing Inverse of $f$ as $f^{-1}(x) = \frac{-3+\sqrt{x-6}}{2}$	1 1 1 1
28.	Taking log to both the sides of $y^x = e^{y-x} \Rightarrow x \log y = (y-x) \log e$ . $\Rightarrow x \log y = (y-x) \Rightarrow x = \frac{y}{1 + \log y}$ . Differentiating and getting $\frac{dx}{dy} = \frac{\log y}{(1 + \log y)^2}$ . Then writing: $\frac{dy}{dx} = \frac{(1 + \log y)^2}{\log y}$ .	2 2
29.	We have $I = \int_{\pi/6}^{\pi/3} \frac{\sin x + \cos x}{\sqrt{\sin 2x}} dx \Rightarrow \int_{\pi/6}^{\pi/3} \frac{\sin x + \cos x}{\sqrt{1 - (\cos x - \sin x)^2}} dx.$ Let $t = \cos x - \sin x \Rightarrow dt = -(\sin x + \cos x) dx.$	1 1

	Limits $x = \frac{\pi}{c} \Rightarrow t = \frac{\sqrt{3}-1}{2}$ and $x = \frac{\pi}{2} \Rightarrow t = \frac{1-\sqrt{3}}{2}$ .	2		
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	$I = -\int_{\frac{\sqrt{3}-1}{2}} \frac{1}{\sqrt{1-t^2}} dt = -\lfloor \sin^{-1} t \rfloor_{\frac{\sqrt{3}-1}{2}} = 2 \sin^{-1} \frac{1}{2}.$			
	OR			
	Expressing N <sup>r</sup> as $5x + 3 = A \frac{d}{dx}(x^2 + 4x + 10) + B$			
	Getting $A = 5/2$ and $B = -7$ .	<b>1/2</b>		
	Expressing $I = \int \frac{5x+3}{\sqrt{2x}} dx = \int \frac{5\frac{3}{2dx}(x^2+4x+10)-7}{\sqrt{2x}} dx = \frac{5}{2}I_1 - 7I_2.$	1/2		
	$\int \sqrt{x^2 + 4x + 10} \int \sqrt{x^2 + 10} \int x$	1		
	Evaluating $I_1 = \int \frac{dx}{\sqrt{x^2 + 4x + 10}} dx = 2\sqrt{x^2 + 4x} + 10 + C_1.$	1		
	Evaluating $I_2 = \int \frac{1}{\sqrt{x^2 + 4x + 10}} dx = \int \frac{1}{\sqrt{(x+2)^2 + (\sqrt{5})^2}} dx.$	T		
	$-\log[(r+2) + \sqrt{r^2 + 4r + 10}] + C_{-}$	1		
	$\int -\log[(x+2) + \sqrt{x^2 + 4x} + 10] + C_2.$ Writing: $I = \frac{5}{2}I_1 - 7I_2 = 5\sqrt{x^2 + 4x + 10} - 7\log[(x+2) + \sqrt{x^2 + 4x + 10}] + C_2.$			
	$\int \frac{dy}{2} \frac{y - x \sin^2(y)}{y}$			
	D. E. $\left[x\sin^2\left(\frac{y}{x}\right) - y\right]dx + x dy = 0 \Rightarrow \frac{dy}{dx} = \frac{1}{x}$ (i)			
	Let $F(x, y) = \frac{y - x \sin^2(\frac{y}{x})}{y}$ . Then $F(\lambda x, \lambda y) = \frac{\lambda y - \lambda x \sin^2(\frac{xy}{\lambda x})}{y} = \lambda^0 F(x, y)$ .			
	Thus D. E. (i) is homogeneous.	1		
30.	Let $y = vx \Rightarrow \frac{dy}{dx} = v + x\frac{dv}{dx}$ .			
	Putting these values in (i) and getting $\frac{dv}{\sin^2 n} = -\frac{dx}{x}$ .	1		
	Integrating both the sides and getting $\log x - \cot\left(\frac{y}{z}\right) = C$ (ii)	1		
	Putting $y = \pi/4$ and $x = 1$ in (ii) and getting $C = -1$ .	1		
	Writing Particular Solution as $log x - cot\left(\frac{y}{r}\right) + 1 = 0.$			
	Let number of rings and chains manufactured per day be x and y respectively. LPP is			
	Maximise Z = $300 \text{ x} + 190 \text{ y}$ (Objective Function). Subject to the constraints: $x + y \le 24$			
	$x + \frac{1}{2} y \le 16$ (Constraint on number of hours) : $x \ge 0$ : $y \ge 0$ .	1		
	Plotting the graph and shading the correct feasible region (bounded) with the corner	2		
	points for maximum Z as A (0, 24), B (8, 16) and C (16, 0).	2		
	Calculating values of $Z = 300 \text{ x} + 190 \text{ y}$ at A (0, 24) as 4560; at B (8, 16) as 5440 and at C (16, 0) as 4800	1		
21	Hence, Z is maximum at B (8, 16) i.e. x = 8 and y = 16.			
31.	OR			
	Plotting the graph of the LPP of Objective function $Z = 5 x + 2 y$ subject to the constraints:			
	region (bounded) with the corner points as O (0, 0), A (2, 0), B ( $7/2$ , $3/4$ ), C ( $3/2$ , $15/4$ )	2		
	and D (0, 3/2).			
	Calculating the values of $Z = 5 \times + 2 \times - 2 \times $	1		
	Hence, Z is minimum at $x = 0$ & $y = 0$ and the minimum value of Z is 0 and Z is maximum at	1		
	x = 7/2 & y = 3/4 and the maximum value of Z is 19.			
	Let events be defined as $E_1$ = Selection of a hostlier; $E_2$ = Selection of a day scholar; $A$ =	1/2		
32.	$P(E_1) = 60/100 = 3/5$ ; $P(E_2) = 40/100 = 2/5$ ; $P(A / E_1) = 30/100 = 3/10$ ; $P(A / E_2) = 20/100 = 100$	_		
	$1/5; P(E_1/A) = Required.$	1		
	By Baye's Theorem, $P(E_1/A) = \frac{P(E_1) \cdot P(A/E_1)}{P(E_1) + P(E_1) + P(E_1)}$ and calculating correct value of	1		
	$P(E_1/A) = 9/13.$	1½		
Q. No.	<u>Section – D</u>	Marks		
	$\begin{bmatrix} 4 & 3 & 2 \\ 1 & 2 & 2 \end{bmatrix} \begin{bmatrix} 0 & -1 & 1 \\ 2 & -2 & -2 \end{bmatrix}$	2		
33.	Finding Product $PQ = \begin{bmatrix} 1 & 2 & 3 \\ 6 & 2 & 3 \end{bmatrix} \begin{bmatrix} 3 & 0 & -2 \\ -2 & 2 & 1 \end{bmatrix} = 51.$			

	Writing the system as $A X = B \Rightarrow X = A^{-1} B$ (i)	
	$\begin{bmatrix} 4 & 3 & 2 \\ 1 & 2 & 2 \end{bmatrix} \begin{bmatrix} x \\ 1 \end{bmatrix} \begin{bmatrix} 60 \\ 45 \end{bmatrix}$	2
	Vertice $A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix} = P, X = \begin{bmatrix} y \\ z \end{bmatrix}, B = \begin{bmatrix} 45 \\ 70 \end{bmatrix}$	
	$\begin{bmatrix} 1 & 0 & 2 & 3 \\ 0 & -1 & 1 \end{bmatrix} \begin{bmatrix} 0 & -1 & 1 \\ 0 & -1 & 1 \end{bmatrix}$	
	And $A^{-7} = \frac{-6}{5}Q = \frac{-6}{5}\begin{bmatrix} 3 & 0 & -2\\ -2 & 2 & 1 \end{bmatrix}$ .	2
	Putting these values in (i) and getting $x = 5$ ; $y = 8$ and $z = 8$ .	
	OR	
	$ a^2 + 1 \rangle ab \rangle ac  a $	
	LHS = $\begin{vmatrix} a + 1 & ab & ac \\ ab & b^2 + 1 & bc \\ ac & bc & c^2 + 1 \end{vmatrix} = \Delta$ (say).	
	Multiplying $a$ in C <sub>1</sub> ; $b$ in C <sub>2</sub> & $c$ in C <sub>3</sub> and then taking common $a$ from R <sub>1</sub> ; $b$ from R <sub>2</sub> & $c$ from	
	B and getting $A = \begin{bmatrix} a^2 + 1 & b^2 & c^2 \\ a^2 & b^2 + 1 & a^2 \end{bmatrix}$	2
	$\begin{bmatrix} a & b + 1 & c \\ a^2 & b^2 & c^2 + 1 \end{bmatrix}$	
	Applying $C_1 \rightarrow C_1 + C_2 + C_3$ and taking $(1 + a^2 + b^2 + c^2)$ common from $C_1$ and getting $\Delta =$	
	$\begin{vmatrix} 1 & b^2 & c^2 \\ (1 + a^2 + b^2 + c^2) \end{vmatrix} = \begin{vmatrix} 1 & b^2 & c^2 \\ 1 & b^2 + 1 & c^2 \end{vmatrix}$	2
	$\begin{vmatrix} 1 & 1 & 0 & 1 & 0 \\ 1 & b^2 & c^2 + 1 \end{vmatrix}$	
	Applying $R_2 \rightarrow R_2 - R_1$ and $R_3 \rightarrow R_3 - R_1$ and getting	
	$\Delta = (1 + a^2 + b^2 + c^2) \begin{bmatrix} 1 & b^2 & c^2 \\ 0 & 1 & 0 \end{bmatrix}$	1
	Expanding along C <sub>1</sub> and getting $\Delta = (1 + a^2 + b^2 + c^2) = RHS$ . Proved.	1
	Let r be the radius and h be the height of cylinder inscribed in a sphere of radius R.	
	Drawing correct figure/diagram.	1
	Volume of cylinder V = $\pi r^2 h = \pi (R^2 - h^2/4) h$ .	1
34.	For maxima or minima, $dV/dh = 0 \Rightarrow h = 2R/V3$ .	2
	$d^2V/dh^2 = -3\pi h/2 = -3\pi R/\sqrt{3} < 0$ (- ive) at h = 2R/ $\sqrt{3}$ .	1
	Hence, v is maximum at n = 2R / v3. And, the maximum volume is $4\pi R^3/(3\sqrt{3})$	1
	Drawing the figure of corresponding surves i.e. a sincle $x^2 + y^2 = 16a^2$ having controlat	
	$(0, 0)$ & radius $4\alpha$ and a right handed parabola $v^2 = 6\alpha x$ having vertex at $(0, 0)$ & axis along	2
	positive x-axis.	
35.	Identifying the region with points of intersection of the curves.	1
	Required area = $2\left[\int_{0}^{2u} y$ (for parabola) $dx + \int_{2a}^{4u} y$ (for circle) $dx\right]$ .	
	$= 2 \left[ \int_0^{2a} \sqrt{6ax}  dx + \int_{2a}^{4a} \sqrt{16a^2 - x^2}  dx \right].$	
	Find the correct area = $4a^2(\sqrt{3} + 4\pi)/3$ .	2
	Eq. of line $\vec{r} = (-\hat{1} + 3\hat{j} + k) + \lambda(2\hat{1} + 3\hat{j} - k) \Rightarrow \frac{1}{2} = \frac{1}{3} = \frac{1}{-1} \dots$ (i)	
	Let Q ( $\alpha$ , $\beta$ , $\gamma$ ) be the foot of perpendicular drawn from P (5, 4, 2) to the line (i) and R ( $p$ , $q$ , $r$ ) be the image of P in the line (i)	
	As O lie on the line (i) $\frac{\alpha+1}{\alpha+1} = \frac{\beta-3}{\alpha+1} = \mu$ (say)	
	$r_{13} = \frac{1}{2} = \frac{1}{$	1
26	$\rightarrow u - 2\mu - 1, p = 3\mu + 3, \gamma = -\mu + 1 (II)$ Now $\overrightarrow{DO} = (\alpha - 5)^2 + (0 - 4)^2 + (\alpha - 2)^2$ is normalized at the normalized states the second states at	
50.	Now $\mathbf{r} \mathbf{Q} = (\mathbf{u} - 5)\mathbf{I} + (\mathbf{p} - 4)\mathbf{J} + (\mathbf{\gamma} - 2)\mathbf{K}$ is perpendicular to the parallel vector $\vec{h} - 2\hat{\mathbf{I}} \pm 3\hat{\mathbf{I}} = \hat{\mathbf{k}}$ of line (i)	
	$s_{0} \overrightarrow{PO} \cdot \vec{h} = 0 \Rightarrow 2 (\alpha - 5) + 3 (\beta - 4) + (-1)(\gamma - 2) = 0$	1
	Putting the values of $\alpha$ , $\beta$ , $\gamma$ from (ii) and getting $\mu = 1$ .	1
	Hence, the coordinate of the foot of perpendicular is Q (1, 6, 0).	1
	The length of perpendicular is $\sqrt{24} = 2\sqrt{6}$ units.	1
	Also, Q is the mid-point of PK.	

So, $1 = \frac{p+5}{2} \Rightarrow p = -3$ , $6 = \frac{q+4}{2} \Rightarrow q = 8$ , $0 = \frac{r+2}{2} \Rightarrow r = -2$ . Thus, the image of P is R (-3, 8, -2).	1
OR	
The equation of the plane passing three points $\hat{i} + \hat{j} - 2\hat{k}$ , $2\hat{i} - \hat{j} + \hat{k}$ and $\hat{i} + 2\hat{j} + \hat{k}$ i.e. (1, 1, -2), (2, -1, 1) and (1, 2, 1) is given by $\begin{vmatrix} x - x_1 & y - y_1 & z - z_1 \\ x_2 - x_1 & y_2 - y_1 & z_2 - z_1 \end{vmatrix} = 0 \Rightarrow \begin{vmatrix} x - 1 & y - 1 & z + 2 \\ 2 - 1 & -1 - 1 & 1 + 2 \end{vmatrix} = 0.$	1
$ x_3 - x_1  y_3 - y_1  z_3 - z_1  \qquad  1 - 1  2 - 1  1 + 2 $ Solving this and getting equation of plane as $9x + 3y - z = 14$ (i) Its vector form is $\vec{r} \cdot (9\hat{\imath} + 3\hat{\imath} - \hat{k}) = 14$ .	2
The line is $\vec{r} = (3\hat{i} - \hat{j} - \hat{k}) + \lambda(2\hat{i} - 2\hat{j} + \hat{k}) \Rightarrow \frac{x-3}{2} = \frac{y+1}{-2} = \frac{z+1}{1}$ (ii) Let the line (ii) intersect plane (i) at $(\alpha, \beta, \gamma)$ . As the point $(\alpha, \beta, \gamma)$ lie on the line (ii), $\frac{\alpha-3}{2} = \frac{\beta+1}{-2} = \frac{\gamma+1}{1} = \mu$ (say).	1
$\Rightarrow \alpha = 2\mu + 3, \beta = -2\mu - 1, \gamma = \mu - 1 (iii)$ Also, the point ( $\alpha$ , $\beta$ , $\gamma$ ) lie on the plane (i) $\Rightarrow 9\alpha + 3\beta - \gamma = 14$ . Putting the values of $\alpha$ , $\beta$ , $\gamma$ from (iii) and getting $\mu = -1$ .	1
Therefore, the point of intersection is $(\alpha, \beta, \gamma) = (1, 1, -2)$ .	1

Code No: Total Pages:				
KENDRIYA VIDYALAYA SANGATHAN.KOLKATA REGION				
MARKING SCHEME				
	1 <sup>ST</sup> Pre-Board Exa	mination, 2019	9-20	
Subject	Geography(Theory)	Class	XII	
Time	03 Hours	Max. Marks	70	
Question	Ansv	ver		Marks
No.				
1	B. South East Asia			1
2	C. Kobe Osaka Region			1
3	B. Japan			1
4	C. Dr Mahabub-Ul-Haq			1
	OR			
	C. Sustainability Approach			
5	C. Mixed Farming			1
				-
6	B. Wheat			1
7	C. Comprehensive port			1
				1
8.	A. SAFIA			1
9.	A. Latvia			1
10.	D. Goa			1
	OR			
	B. Main Worker			
11	A Lakshadween			1
11.	A. Lakshauweep			1
12.	B. Bhopal			1
13.	A. Gram			1
14.	C. Salinization of Soil			1
15.	C. Soil			1
16.	B. Maharashtra- Goa- Karnataka			1

17.	C. Sadia to Dhubri	1
18.	D. Tuticorin Port	1
	OR	
	B. Sea	
19.	Environmental Determinism -	3
	passage of time.	
	2. The movement from state of necessity to a state of freedom creating	
	possibilities with resources obtained from environment.	
	<ol> <li>Nature provides opportunities and numan beings make use of this opportunities.</li> <li>Possibilism –</li> </ol>	
	1. Man is treated as an independent and active agent everywhere	
	2. There are possibilities and man is the master of these possibilities.	
20	3. Man can transform nature by culture and technological knowledge.	2
20.	2. Environmental problem – many cities of developing countries do not	5
	2. Environmental problem – many entes of developing countries do not	
	3 Problem of urban waste disposal	
	(any other relevant points to be explained properly)	
21	Push Factors:	3
	1. Unemployment	0
	2. Poor Living condition.	
	3. Political turmoil	
	4. Unpleasant Climate	
	5. Natural Disaster	
	Pull Factors:	
	1. More attractive job	
	2. Good living condition	
	3. Peace	
	4. Security of life	
	5. Pleasant climate	
	(any three point of each to be explained properly)	
22.	1. Selection of one water stressed village in each 672 districts of the country to	3
	create Jal Gram	
	2. Identification of Model Command Area	
	3. Reducing Groundwater pollution	
	4. Creating Mass Awareness through Social Media Radio TV etc (any other	
	relevant points to be explained properly)	
	OR .	
	An efficient management and conservation of surface and groundwater	
	resources which involved the prevention of runoff and shortage and recharge of	
	groundwater through various methods.	
	Certainly water sned management can play an important role in sustainable	
	development. For example, Central and State government initiated in many	
	programmes such as	
	Hariyan by Central Government.	
	Neeru Meeru by Andhra Pradesh Government.	

	Arvari Pani Sansad by Rajasthan Government. (any other relevant points to be	
	explained properly)	
23.	Manufacturing refers to conversion of raw material into finished goods through	5
	application of power and machinery. Characteristics of modern large scale	
	manufacturing:	
	1. Specialisation of skills	
	2. Mechanisation	
	3. Technological innovation	
	4. Organisational structure and stratification (Points to be explained	
	properly)	
24.	When medical treatment is combined with international tourism, it is known as	5
	Medical Tourism.	
	Factors affecting tourism:	
	1. Demand	
	2. Transport	
	3. Climate	
	4. Landscape	
	5. History and Art	
	6. Culture and Economy	
	(any four point to be explained properly)	
25.	Different modes of transportation are not competitive but complementary in	5
	nature. All of them have their own importance in specific situation. For	
	example:	
	a. Heavy machinery – for water transport	
	b. urgent materials – air transport	
	c. common people – land transport(any other relevant points to be	
	explained properly)	
	OR	
	Trans Continental Railway passes through different parts of a continent and	
	connects its two ends having economic and political motive.	
	1. 7050 Km long connect Halifax in the east and Vancouver on the west.	
	2. Constructed in 1886.	
	3. Connect Quebec industrial region with wheat belt of Prairie.	
	4. It is an important train route having wheat and meat important export.	
26.	Conventional Sources of Energy :	5
	1. They are exhaustible in nature	
	2. They are not eco friendly	
	3. Coal Petroleum Natural Gas etc are the example.	
	Non Conventional Sources of Energy :	
	1. They are non exhaustible in nature	
	2. They are not eco friendly	
	3. Hydroelectricity, Nuclear power plant etc	
27.	Following steps taken for attainment of tribal sub-plan strategy :	5
	1. Improving the quality of life of Gaddis in Bharmaur and other districts	
	of Himachal Pradesh	
	2. Highest priority on Transport and Communication	
	3. Improvement of basic infrastructure of health care facility, potable	
	water supply school etc	

	4. Employment generation through agriculture and small scale industry.	
	5. Instead of subsistence agriculture, cash crops are been grown.	
	OR	
	Measures for promotion of Sustainability :	
	1. Rigorous implementation of water management policy	
	2. Adaption of plantation crop instead of water intensive crop	
	3. CAD programme	
	4. The areas should be reclaimed that what affected by water logging and	
	soil salinity.	
	5. Promotion of eco development programme in stage II.	
	(any other relevant points to be explained properly)	
28	Following are the major problems associated with urban waste in India:	5
	1. Growing Population	C
	2. Slow Administrative Action	
	3. Casual Attitude towards cleanliness	
	4 Unscientific Disposal Management	
	5 Problem of Water pollution (any other relevant points to be explained	
	properly)	
	OR	
	Following are the problems of slums in India:	
	Poor Hygienic condition	
	<ul> <li>Lack of light and drinking water facility</li> </ul>	
	<ul> <li>Lack of toilet facility</li> </ul>	
	<ul> <li>Deer ventiletion</li> </ul>	
	• Four resid and high risk works (any other relevant resists to be evaluated	
	• Low paid and high risk works (any other relevant points to be explained	
20	A Dihor	5
29	A. Dillar P. Shimogo	5
	D. Shinoga	
	C. Koraput	
	D. Dilliai E. Mahali	
	E. Moliali E. Silahar	
	F. Shichal	
20	G. Thiruvanantipurani (Any 5 to be answered)	5
	Silicon Valley B Algeria A C Perth	

## KENDRIYA VIDYALAYA SANGTHAN, KOLKATA REGION MARKING SCHEME BUSINESS STUDIES (054) Class - XII <u>Pre- Board Examination-(2019-20)</u>

1.	Social Objective.	1
2.	Efficiency	1
3.	1 mark for correct meaning	1
4.	Authority and Responsibility.	1
5.	Legal environment	1
6.	Any one difference between 'Objective' and ' Strategy'	1
7.	d) Planning	1
8.	Product concept	1
9.	a) Rule	1
10.	a) Identification and division of work	1
11.	d) no duplication of activities	1
12.	b)Coordination	1
13.	d) Departmentation	1
14.	a) Direct Recruitment	1
15.	Co-partnership/Stock option	1
16.	c)Abraham Maslow	1
17.	a) Management by Exception	1
18.	Wealth maximization is the primary objective of financial management,	1
	which means maximising the market value of investment in the share of the	
	company.	
19.	(d) All the above	1
20.	(d) All the above	1
21.	Any three importance of controlling	3
	i) It helps to judge accuracy of standard	
	ii) It helps to achieve goals	
	iii) It ensures best use of resources	
22.	In order to keep fixed capital requirement low, Shyam should take this	3
	decisions	
	a) Nature of business.	
	b) Scale of operation.	
	c) Financial Alternatives'.	
23.	a) The principle of "Order"	3
	b) In the absence of orderliness, school objectives will not be achieved	
	efficiently and effectively.	
24.	A) labelling (1 Mark)	3
	b) two functions of labelling (2 Mark)	
	i) Identification of product	
	ii) Description about product	
	111) Statutory requirement	
	Three factors affecting pricing decision. (Any Three)	
	a) Pricing Objectives.	
	b) The utility of demand	
	c) Product cost	
	a) Extent of competition in the market.	

f) Marketing methods used.       3         25. (a) Business environment helps in tapping useful resources.       3         "It assembled various inputs like finance, machines, raw materials, etc. from its environment."       3         (b)       (c)       3         (c)       Social environment       4         "	1	e) Govt and regulation.	
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		(b) Characteristic of management (2 Marks)	
		> Goal oriented	
		Group activity	
	30.	i) Profit maximisation	5
		Wealth maximisation- (2 Marks)	
		ii) Three factors affecting the choice of long term finance	
		Rate of return (3 Marks)	
		<ul> <li>Cost of finance</li> </ul>	
		Floatation cost	
		Charge on asset	
		OR	
		Dividend decision (1 Mark)	
		Factors affecting dividend decision. (4 Marks)	
		Earnings:	
		Stability of earnings:	
		Stability of dividends:	
		Growth opportunities:	
		Cash flow position	
Ī	31.	a) to check insider trading	
		conducting enquiry/inspection- (2 Marks)	
		b) two other functions-	
		i) development function	5
		ii)regulatory function (3 Marks)	
		Or	
		1 mark for each correct function.	
	32.	(a) Labelling and Packaging are the two important decisions related to a	6
		product.	
		(b) <i>Branding</i> is considered to be a very important decision by the marketers	
		because it facilitates product differentiation. Through branding the	
		prospective buyers are able to bring about a distinction between a company	
		product and its substitutes available in the market. This helps the company	
		to obtain a desirable market share.	
		(c) The four features of a good brand name are stated below:	
		The brand name should be short, easy to pronounce, spell, recognize	
		and remember e.g., Ponds.	
		A brand should suggest the product's benefits and qualities e.g.	
		Sunsiik.	
		A brand name should be distinctive e.g., Lotus. It should be conching registered and protocted legally.	
		$\sim$ It should be capable of being registered and protected legally $(1+1+4-6)$	
-	33	$\frac{(1+1+4-0)}{\text{UPM promotion}}$	
	55.	Marketing head, placement agency	
		Assistant manager- casual callers $(1x3=3)$	6
		Merits of each source $(1x3=3)$	0
		i) Promotion-less expensive	
		i) Placement agency- reliable source	
		iii) Casual callers- easily available	
		Or	
		1 marks for each correct process in sequence	
ŀ	34	a) Personal barrier (1 Mark)	6
		b) Lack of proper incentives (2 Marks)	
		c) Three barriers of same category- (3 Marks)	

Fear of challenge to authority

i)

iii)

- ii) Unwillingness to communicate
  - Lack of proper incentive

#### OR

- a) The various elements of directing mentioned in the above paragraph are as follows: (4 Marks)
- Communication: "He is very clear and specific in issuing instructions to his subordinates in order to ensure smooth working of the department."
- Supervision: "He personally oversees the method followed by the chefs for preparation of each dish."
- Leadership: "He provides constant guidance to them in order to improve upon its taste and presentation and also encourages them to innovate and be more creative in their work."
- Motivation: "He misses no opportunity to praise his subordinates for their good work."
  - b) The importance of directing as a function of management is described below: (Any Two) (2 Marks)
- Initiates action: Directing helps to initiate action by people in the organization towards attainment of desired objectives. It is the first execution function of management.
- Integrates employees' efforts: Directing seeks to integrate the individual efforts of employees in the organization towards the realization of the organizational goals.
- Helps to realize their potential: Directing provides effective guidance, motivation and leadership to the employees so as to enable them to realize their potential and capabilities. (any two)

# KENDRIYA VIDYALAYA SANGATHAN KOLKATA REGION PRE- BOARD EXAMINATION 2019 20 CHEMISTRY MARKING SCHEME

Q.1 Aldehyde

questions 1 to 20- 1 M for each correct ans

Q.2 Acetic Anlydride

Q.3 It has got 5-OH groups

Q.4 Aldehyde group is not free

Q.5



Q 6)false

Q.7 Ag or Au

Q 8)



Q.9 4

q.10 +3

Q.11 (c) option

Q.12 b) 1M,Na<sub>2</sub>SO<sub>4</sub>

Q13) (a) 1

Q.14 B

Q.15 (c) Vanderwaal

Q.16 (a)

Q.17 (c)

Q.18 (b)	
Q.19 (c)	
Q.20 (a)	
Q.21 Those which undergo dissociation	½ M
example . NaCL,KCl	1/2M
Explanation with formula & Van't half factor	1M
Q.22 When the volume is reduced to 1/3 the concentration of each rea	ctant in increased by 3 times 1/2M
Rate= $k(3NO)^2(3O_2)$	1/2M
Rate= $27K(NO^{2})(O2)$	
Rate=27 $K(NO)^2(O_2)$	
Rate increased by 27 times., no change in order	½ + 1/2 M
Q.23 Vapour phase refining definition	1M
Equation for Van Arkel OR Mond's process.	
1M	
Or	
Al <sub>2</sub> O <sub>3</sub> +2NaOH +H <sub>2</sub> O -> 2 Na[Al(OH) <sub>4</sub> ]	1M
2Na(Al(OH) <sub>4</sub> )+CO <sub>2</sub> -> A <sub>l2</sub> O <sub>3</sub> xH <sub>2</sub> O+2 NaHCO <sub>3</sub>	1/2M
$AI_2O_3xH_2O$	1/2M
Q 24) a) 2 C+ $4H_2SO_4$	1M
b)XeF <sub>4</sub> +SbF <sub>5</sub> $\rightarrow$ XeF <sub>3</sub> +SbF <sub>6</sub>	
Q.25 Hybridisation with electronic confignration	1M
Magenetic property & geometery	1M

Q.26	i)+R effect	1M
	ii) presence of chiral carbon	1M

1M

Q.27 a) Lucas Test,b) Neutral FeCl $_3$ test(observation to be written)	1+1M		
Or			
a) iodoform test b) Fehling test (observation to be written)			
Q.28 Moles of BaCl2=3.1/208.3 = 1.48x10-2			
Molality = 1.48x10-2/0.250=0.59m	1.5M		
ΔT <sub>b</sub> = 100.083-100- 0.083K			
$\Delta T_b = ik_b.m$			
i=0.083/0.52x0.59 =2.7	1.5M		
Or			
The freezing point of the solution will be 272.47 K			
Given data,			

$$\begin{split} W_2 &= 10.5 \text{ g} \\ W_1 &= 200 \text{ g} \\ \text{Molar mass of MgBr, } M_2 &= 184 \text{ g} \\ \text{Kf of water } &= 1.86 \\ \text{Hence the change in freezing point is given by the relation,} \\ \Delta Tf &= (1000 \times \text{Kf x } W_2)/(W_1 \times M_2) \\ &= (1000 \times 1.86 \times 10.5)/(200 \times 184) \\ &=> \Delta Tf = 0.53 \text{ K} \\ \text{Hence new freezing point ,} \\ T_f &= T_0 - \Delta T_f = 273 - 0.53 = 272.47 \text{ K} \\ \text{Hence the freezing point of the solution will be 272.47 K} \end{split}$$

1/2M 1/2M

1M

1M

1M

Q 29) 2 N<sub>2</sub>O<sub>5</sub>(g) 
$$\rightarrow$$
 2 N<sub>2</sub>O<sub>4</sub> + O<sub>2(G)</sub>

GIVEN, At t = 0 0. 5 atm 0 atm 0 atm At time t 0. 5 - 2x atm 2x atm x atm <u>To find total pressure</u>: P<sub>t</sub> = sum of partial pressures of all reactants and product<sub>s</sub> P<sub>t</sub> = 0. 5 - 2x + 2x + x x = p<sub>t</sub> - 0. 5 p $N_2O_5 = 0.5 - 2x$ = 0. 5 - 2(p<sub>t</sub> - 0. 5) = 1. 5 - 2p<sub>t</sub> At t = 100 s; p<sub>t</sub> = 0. 512 atm p $N_2O_5 = 1.5 - 2 \times 0.512 = 0.476$  atm

Formula to find rate constant of a first order reaction

 $k = \frac{2.303}{t} \log \frac{p_i}{p_a}$ 

$$k = \frac{2.303}{100 \text{slog}} \frac{0.5}{0.476}$$

$$k = \frac{2.303}{100s} \times \frac{0.0216}{0.0216} = 4.98 \times 10^{-4} \text{ s}^{-1}$$

the rate constant for the following reaction is 4. 98 $ imes$ 10 $^{-4}$ s $^{-1}$	1M		Q.30
a) Correct equation	1Mb) AlCl3,	b) AICI3	
explain mentioning Hardy schulz rule	½ +1/2 M		
c) Correct definition 0.31 Fach correct reason	1M 1M		
	1111		

1M

1M each

1M each

Or

correct geometry with lone pair

Q 32) a)



Q 32 c)



OR

 $(a)\kappa = 8.0 \times 10^{-5} \text{ S cm}^{-1}$ 

C = M = 0.0024M, Molar conductivity =1000x8x10<sup>-5</sup>/0.0024 =33.33Scm<sup>2</sup>mol<sup>-1</sup> 1.5M

Limiting Molar conductivity =  $40.9 + 349.6 = 390.5 \text{ S cm}^2 \text{ mol}^{-1}$ 

Degree of dissociation is given by

α =33.33/390.5 =0.085 =8.5%

(b)'B' is the strong electrolyte because on dilution of a strong electrolyte, number of ions almost remain the same. Only the interionic attraction decreases and therefore the increase in limiting molar conductivity of 'B' is small. This is because on dilution for both strong and weak electrolyte, there is increase in molar conductivity. But it has been observed that there is a large increase in molar conductivity of weak electrolyte on dilution than strong electrolyte. Because, weak electrolytes dissociate very less at higher concentration. On dilution, degree of dissociation of weak electrolyte increases means there is increase in number of ions per unit volume. Hence, 'A' is the weaker electrolyte. On the other hand, for strong electrolyte, degree of dissociation increases slowly on dilution. Thus, 'B' whose limiting

1.5M

molar conductivity increases to a lesser extent is a strong electrolyte. 2M

#### Q 36)

A  $C_6H_6CONH_2$ 

- $\mathsf{B} \quad \mathsf{C}_{6}\mathsf{H}_{5}\mathsf{N}\mathsf{H}_{2}$
- $\mathsf{C} \qquad \mathsf{C}_6\mathsf{H}_5\mathsf{N}_2\mathsf{C}\mathsf{I}$
- $D C_6H_6$
- E 2,4,6 TRIBROMOANILINE

Explanation

Identifying 2.5 M , Four equations 2M  $$\frac{1}{2}$$  mark

OR

a)i)



ii)



iii)



B CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>

Q 37) (a)Chromite ore FeCr<sub>2</sub>O<sub>4</sub> compound A is fused with an aqueous solution of sodium carbonate in excess of air, to form compound B that is sodium chromate that is yellow in colour. Sodium

chromate is filtered and acidified with sulphuric acid to <u>form compound C that is sodium dichromate</u>, which is an orange crystalline compound. Sodium dichromate reacts with KCl to <u>form potassium dichromate</u> which is less soluble than sodium dichromate. This is <u>compound D.</u>

4X1/2=2

 $\begin{array}{c} 4\mathrm{Fe}\mathrm{Cr}_{2}\mathrm{O}_{4}+8\mathrm{Na}_{2}\mathrm{CO}_{3}+7\mathrm{O}_{2} \longrightarrow 8\mathrm{Na}_{2}\mathrm{Cr}\mathrm{O}_{4}+2\mathrm{Fe}_{2}\mathrm{O}_{3}+8\mathrm{CO}_{2}\\ \mathrm{(A)} & \mathrm{(B)} \end{array}$   $2\mathrm{Na}\mathrm{Cr}\mathrm{O}_{4}+2\mathrm{H}^{+} \longrightarrow \mathrm{Na}_{2}\mathrm{Cr}_{2}\mathrm{O}_{7}+2\mathrm{Na}^{+}+\mathrm{H}_{2}\mathrm{O}\\ \mathrm{Na}_{2}\mathrm{Cr}_{2}\mathrm{O}_{7}+2\mathrm{KCl} \longrightarrow \mathrm{K}_{2}\mathrm{Cr}_{2}\mathrm{O}_{7}+2\mathrm{Na}\mathrm{Cl}\\ \mathrm{(C)} & \mathrm{(D)} \end{array}$ 

B (i) The actinoids have a greater range of oxidation states than lanthanoids, which are both members of the f-block group of elements. This is because the the 5f, 6d and 7s levels are of comparable energies. The first half of the series frequently exhibit higher oxidation states but it decreases in the succeeding elements. The elements in general show +3 state and then increases to +4 in Th to +5, +6 and +7 respectively in Pa, U and Np.

(ii) Actinoids show a gradual decrease in the size of atoms or M<sup>3+</sup> ions across the series. This is actinoid contraction, just like lanthanoid contraction, but there is a greater contraction from element to element in this series because of poor shielding by 5f electrons.

(iii) MnO,  $MnO_2 Mn_2O_7$ 

OR

A (i) Disproportionation is a reaction where a particular oxidation state becomes less stable relative to other oxidation states. Disproportionation is a type of redox reaction in which a species is simultaneously reduced and oxidised forming two different products. Manganate ions  $(MnO_4^{2-})$  has an oxidation number of +6. In acidic medium, it undergoes disproportionation reaction to give  $MnO_2$  and  $MnO_4^{-}$ .

 $3MnO_{4^{2-}} + 4H^+ \rightarrow MnO_2 + 2MnO_{4^-} + 2H_2O$ 

(ii) When Lanthanum is heated with Sulphur, it forms  $Ln_2S_3$ . 2x1=2

 $2Ln + 3S \rightarrow Ln_2S_3$ 

B (i) The  $E^0(M^{2+}/M)$  value of a metal depends on the energy changes involved in the following reactions:

1. Sublimation energy which is the energy needed to convert one mole of atoms from a solid state to gaseous state. 2. Ionization energy which is the energy supplied to remove electrons from one mole of atoms, which are in the gaseous state. 3. Hydration energy which is the energy emitted to hydrate one mole of ions. Copper has a high ionisation energy and low hydration energy. Copper also has high atomization energy  $\Delta_a H^\circ$ . Hence, the  $E^0(M^{2+}/M)$  value for copper is positive.

(ii)  $Cr^{2+}$  is reducing in nature while  $Mn^{3+}$  is oxidizing. Both of them have the same d<sup>4</sup> configuration. When  $Cr^{2+}$  acts as a reducing agent, it gets oxidized to  $Cr^{3+}$ , with configuration d<sup>3</sup>. It can be written as  $3t_{2g}$  configuration, which is the stable configuration. In the case for  $Mn^{3+}$ , when it oxidises, it gets reduced to  $Mn^{2+}$  with a d<sup>5</sup> configuration. This configuration has a half-filled orbital and has extra stability.



 $Cr^{3+}$  configuration  $Mn^{2+}$  configuration

(iii)  $VO_{2^+}$  is an oxocation and  $Cr_2O_7^{2-}$  and  $MnO_{4^-}$  are both oxoanions of the transition metals. The ions in which the central metal atom is has the highest oxidation state will have the highest oxidising power. In  $VO_{2^+}$ , vanadium is present in the +5 oxidation state, while in  $Cr_2O_7^{2-}$  ion, Cr is present in the +6 oxidation state. Similarly in the  $MnO_{4^-}$ , Mn is present in the +7 oxidation state. Thus as the oxidation state of the central metal atom increases in the given order. 3x1=3