

ENGLISH ASSIGNMENT

CHAPTER-1 THE LAST LESSON

Q-1 What different moral values of M. Hamel's character are highlighted in his last lesson?

Q-2 How did procrastination (act of putting something off till some future time) in learning French people dearly?

How can the vice procrastination be overcome?

Q-3 Our native language is part of our culture and we are proud of it. How does the presence of village elders in the classroom and M.Hamel's last lesson show their love for French? (All India 2016)

Question 1.

How was the scene in the school, on the morning of the last lesson, different from that on other days?

OR

How was M. Hamel's class different the day Franz went late to school?

Question 2.

How does M. Hamel pay a tribute to the French language?

OR

What did M. Hamel tell them about the French language? What did he ask them to do and why?

Question 3.

One order from Berlin changed the scenario of the school. Comment.

Q-4 How did the order from Berlin change the situation in the school?

Question 1.

"What a thunderclap these words were to me!" Which were the words that shocked and surprised little Franz?

Question 2.

Who did M. Hamel blame for the neglect of learning on the part of boys like Franz?

Question 3.

"This is your last French lesson." How did Franz react to this declaration of M. Hamel?

OR

How did Franz react to the declaration that it was their last French lesson?

Question 4.

How did M. Hamel say farewell to his students and the people of the town?

MATHEMATICS

CBSE TEST PAPER-01

CLASS - XII MATHEMATICS (Vectors & Three Dimensional Geometry)

Topic : Vectors

1. Is the measure of 5 seconds is scalar or vector? [1]
2. Find the sum of the vectors. [1]
 $\vec{a} = \hat{i} - 2\hat{j} + \hat{k}, \vec{b} = -2\hat{i} + 4\hat{j} + 5\hat{k}, \vec{c} = \hat{i} + 6\hat{j} + 7\hat{k}$
3. Find the direction ratios and the direction cosines of the vector [1]
 $\vec{r} = 2\hat{i} - 7\hat{j} - 3\hat{k}$
4. Find the angle between vectors \vec{a} and \vec{b} if $|\vec{a}| = \sqrt{3}, |\vec{b}| = 2, \vec{a} \cdot \vec{b} = \sqrt{6}$ [1]
5. Vectors \vec{a} and \vec{b} be such that $|\vec{a}| = 3$, and $|\vec{b}| = \frac{\sqrt{2}}{3}$, then $\vec{a} \times \vec{b}$ is a unit vector. [1]
Find angle between \vec{a} and \vec{b} .
6. Find the unit vector in the direction of the sum of the vectors [4]
 $\vec{a} = 2\hat{i} + 2\hat{j} - 5\hat{k}, \vec{b} = 2\hat{i} + \hat{j} + 3\hat{k}$
7. Show that the points $A(2\hat{i} - \hat{j} + \hat{k}), B(\hat{i} + 3\hat{j} + 5\hat{k}), C(3\hat{i} + 4\hat{j} + 4\hat{k})$ are the [4]
vertices of right angled triangle.
8. Show that the points $A(-2\hat{i} + 3\hat{j} + 5\hat{k}), B(\hat{i} + 2\hat{j} + 3\hat{k})$ and $C(7\hat{i} - \hat{j})$ are [4]
collinear.
9. If $\vec{a}, \vec{b}, \vec{c}$ are unit vector such that $\vec{a} + \vec{b} + \vec{c} = 0$ find the value of $\vec{a} \cdot \vec{b} + \vec{b} \cdot \vec{c} + \vec{c} \cdot \vec{a}$ [4]
10. If $\vec{a} = 2\hat{i} + 2\hat{j} + 3\hat{k}, \vec{b} = -\hat{i} + 2\hat{j} + \hat{k}, \vec{c} = 3\hat{i} + \hat{j}$ are such that $\vec{a} + \lambda\vec{b}$ is \perp to \vec{c} is [4]
then find the value of λ .

ACCOUNTANCY
SAMPLE PAPER 1
SUBJECT – ACCOUNTANCY
CLASS XII

Time Allowed: 3 Hrs.

Max. Marks: 80

PART—A		
(ACCOUNTING FOR PARTNERSHIP FIRMS & COMPANIES)		
1	Current Accounts of the partners are opened (a) When capital are fluctuating (b) When capital are fixed (c) When fresh capital is introduced (d) Whether Capitals are fluctuating or fixed	1
2	What are super profits (a) Actual profit – Normal Profit (b) Normal Profit - Actual profit (c) Actual profit + Normal Profit (d) None of the above	1
3	The part of Authorised Capital which can be called-up only on winding up is called (a) Issued Capital (b) Unsubscribed Capital (c) Reserve Capital (d) Nominal Capital	1
4	Income & Expenditure Account is based on (a) Cash Accounting (b) Accrual Accounting (c) Government Accounting (d) Management Accounting	1
5	On Dissolution Goodwill Account is transferred to: (a) Credit side of Bank Account. (b) Debit side of Partners' Capital Account (c) Debit side of Realisation Account (d) Credit side of Realisation Account	1

6	<p>If a share of Rs. 10 issued at a premium of Rs. 2 on which the full amount has been called and Rs. 8 (including premium) paid is forfeited, the Share Capital Account should be debited with</p> <p>(a) Rs. 12 (b) Rs. 10 (c) Rs. 8 (d) Rs. 6</p>	1
7	<p>Section 48 of the Indian Partnership Act, 1932 deals with:</p> <p>(a) Payment of firms debts and private debts (b) Settlement of account when the firm is dissolved (c) Dissolution of the firm (d) Admission of a partner</p>	1
8	<p>A and B are partners in a firm sharing profits in the ratio of 3 : 2. They decided to share future profits equally. Calculate A's gain or sacrifice</p> <p>(a) 2/10 (sacrifice) (b) 5/10 (gain) (c) 1/10 (Gain) (d) 1/10 (sacrifice)</p>	1
9	<p>A, B and C were partners sharing profits in the ratio 3 : 2 : 1. C died. If A and B take share of deceased partner equally, new profit sharing ratio will be</p>	1
10	<p>A and B were partners. They shared profits as A- 1/2; B- 1/3 and carried to reserve 1/6. B died. The balance of reserve on the date of death was Rs. 30,000. B's share of reserve will be:</p> <p>(a) Rs. 10,000 (b) Rs. 8,000 (c) Rs. 12,000 (d) Rs. 9,000</p>	1
11	<p>If goodwill is already appearing in the books of accounts at the time of retirement, then it should be written off in -----.</p> <p>(a) New Ratio (b) Gaining Ratio (c) Sacrificing Ratio (d) Old Ratio</p>	1
12	<p>X & Y are partners sharing profits equally. Y draws Rs. 1,000 at the beginning of each month for six months year ended on 31st March, 2019. If interest on drawings is to be charged @ 6% p.a. The interest on drawings of Y will be Rs. 285.</p>	1

13	<p>Interest on Partner's Capital Accounts is credited to:</p> <p>(a) Partners' Capital Accounts</p> <p>(b) P. & L. App. Account</p> <p>(c) Interest Account</p> <p>(d) Revaluation Account</p>	1																						
14	<p>Goa Sports Club disclosed the following information in respect of subscription as on 31st December, 2017:</p> <table border="1"> <thead> <tr> <th style="text-align: left;">Particulars</th> <th style="text-align: right;">Rs.</th> </tr> </thead> <tbody> <tr> <td>Subscriptions received during year</td> <td style="text-align: right;">2,40,000</td> </tr> <tr> <td>Subscriptions outstanding for 2016 (of which Rs. 7,500 received in 2017)</td> <td style="text-align: right;">10,000</td> </tr> <tr> <td>Advance subscription received during 2016</td> <td style="text-align: right;">3,000</td> </tr> <tr> <td>Advance subscription received during 2017</td> <td style="text-align: right;">4,000</td> </tr> <tr> <td>Subscription due for 2017</td> <td style="text-align: right;">2,000</td> </tr> </tbody> </table> <p>Compute the amount of subscription that will be shown in the Income and Expenditure Account 2017?</p> <p style="text-align: center;">OR</p> <p>Miscellaneous expenses paid during the year ended March 31st 2017 amounts to Rs. 18,500. Information about prepaid and outstanding expenses is as under:</p> <table> <thead> <tr> <th style="text-align: left;">Rs.</th> <th></th> </tr> </thead> <tbody> <tr> <td>Prepaid expenses on March 31, 2016</td> <td style="text-align: right;">1,500</td> </tr> <tr> <td>Expenses unpaid on March 31, 2016</td> <td style="text-align: right;">2,300</td> </tr> <tr> <td>Expenses unpaid on March 31, 2017</td> <td style="text-align: right;">2,500</td> </tr> <tr> <td>Prepaid expenses on March, 31, 2017</td> <td style="text-align: right;">1,400</td> </tr> </tbody> </table> <p>Ascertain the expenses to be debited to the Income and Expenditure Account for the year ended March 31st 2017.</p>	Particulars	Rs.	Subscriptions received during year	2,40,000	Subscriptions outstanding for 2016 (of which Rs. 7,500 received in 2017)	10,000	Advance subscription received during 2016	3,000	Advance subscription received during 2017	4,000	Subscription due for 2017	2,000	Rs.		Prepaid expenses on March 31, 2016	1,500	Expenses unpaid on March 31, 2016	2,300	Expenses unpaid on March 31, 2017	2,500	Prepaid expenses on March, 31, 2017	1,400	3
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15	<p>Piya and Bina are partners in a firm sharing profits and losses in the ratio of 3:2 with capitals Rs. 70,000 and Rs. 32,000. The profits Rs. 30,000 for the year ended 31-3-2016 were divided between the partners without allowing interest on capital @ 12% p.a. and salary to Piya @ Rs. 1,000 per month. Showing your working notes clearly, pass the necessary adjustment entry.</p> <p style="text-align: center;">OR</p>	3																						

	Manisha and Nandita entered into a partnership to manufacture furniture for schools for children with special needs. They contributed capitals of Rs. 30,00,000 and Rs. 20,00,000 respectively. They decided to share profits in the ratio 5 : 3. The Partnership Deed allowed interest on capital @ 10% per annum. The firm earned a profit of Rs. 3,00,000 during the year ended 31 st March, 2016. Prepare Profit and Loss Appropriation Account of Manisha and Nandita for the year ended 31 st March, 2016.																																	
16	Xansa Ltd. offered 22,000 equity shares of Rs.100 each to the public at a premium of Rs. 20 per share. The amount per share was payable as Rs. 30 on application; Rs. 50 (including premium) on allotment and the balance on first and final call. 20,000 shares were subscribed by the public. All calls were made. A shareholder holding 1,000 shares failed to pay the first and final call money. His shares were forfeited. Show 'Share Capital' in the Balance Sheet of Xansa Ltd. Also, prepare 'Notes to Accounts'.	4																																
17	Give the necessary journal entries for the following transactions on dissolution of the firm of Aman and Rajat on 31st March, 2016, after the transfer of various assets (other than cash) and the third party liabilities to Realisation Account. They shared profits and losses in the ratio of 2:1. (a) Creditors of Rs. 30,000 settled at 30% discount. (b) There was an old typewriter which had been written off completely. It was estimated to realise Rs. 600. It was taken away by Rajat at 25% less than the estimated price. (c) Aman agreed to take over the responsibility of completing dissolution at an agreed remuneration of Rs. 1,000 and to bear all realisation expenses. (d) Loss on realisation was Rs. 54,000.	4																																
18	Differentiate between fixed and fluctuating capital account (any four).	4																																
19	The following is the Receipts & Payments Account of Queen's Club for the year ended March 31 st , 2018: <table border="1"> <thead> <tr> <th>Receipts</th> <th>Rs.</th> <th>Payment</th> <th>Rs.</th> </tr> </thead> <tbody> <tr> <td>To Balance b/d</td> <td>1,82,000</td> <td>By Salaries</td> <td>79,000</td> </tr> <tr> <td>To Subscription</td> <td>2,20,000</td> <td>By Stationery</td> <td>32,000</td> </tr> <tr> <td>To Tournament Fund</td> <td>1,64,000</td> <td>By Rent</td> <td>48,000</td> </tr> <tr> <td>To Interest(investments)</td> <td>25,000</td> <td>By Telephone Expenses</td> <td>8,000</td> </tr> <tr> <td>To Donations</td> <td>1,00,000</td> <td>By Sports Material</td> <td>78,000</td> </tr> <tr> <td>To Revenue from Concert</td> <td>2,47,000</td> <td>By Investment 6% p.a.</td> <td>5,00,000</td> </tr> <tr> <td>To Sale of Furniture (Book value Rs. 10,500)</td> <td>12,000</td> <td>By Misc. Expenses</td> <td>24,000</td> </tr> </tbody> </table>	Receipts	Rs.	Payment	Rs.	To Balance b/d	1,82,000	By Salaries	79,000	To Subscription	2,20,000	By Stationery	32,000	To Tournament Fund	1,64,000	By Rent	48,000	To Interest(investments)	25,000	By Telephone Expenses	8,000	To Donations	1,00,000	By Sports Material	78,000	To Revenue from Concert	2,47,000	By Investment 6% p.a.	5,00,000	To Sale of Furniture (Book value Rs. 10,500)	12,000	By Misc. Expenses	24,000	6
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		By Tournament Expenses	1,60,000
		By Balance c/d	21,000
	9,50,000		9,50,000

The following additional information is provided:

- Subscriptions include Rs. Rs. 12,000 for 2016-17 and Rs. 18,000 for 2018-19.
- Stock of stationery on 31st March 2017 and 2018 was Rs. 7,200 & Rs. 5,400 respectively.
- The value of Building as on 31st March 2017 was Rs. 8,00,000. Write off depreciation at 10%.

You are required to prepare the Income & Expenditure Account for the year ended 31st March 2018.

- 20
- What is meant by Issue of Debentures as a Collateral Security?
 - A Ltd. acquired assets of Rs. 14,00,000 and liabilities of Rs. 1,40,000 of B Ltd. for the purchase consideration of Rs. 13,20,000. A Ltd. paid the consideration by issuing 12% Debentures of Rs. 100 each at a premium of 10%. Give Journal entries in the books of A Ltd.

- 21
- The Balance Sheet of Madhu and Vidhi who are sharing profits in the ratio of 2 : 3 as at 31st March, 2016 is given below:

Liabilities	Amount	Assets	Amount
	Rs.		Rs.
Madhu's Capital	5,20,000	Land & Building	3,00,000
Vidhi's Capital	3,00,000	Machinery	2,80,000
General Reserve	30,000	Stock	80,000
Bills Payable	1,50,000	Debtors	3,00,000
		Less: Provision	<u>10,000</u>
		Bank	50,000
	<u>10,00,000</u>		<u>10,00,000</u>

Madhu and Vidhi decided to admit Gayatri as a new partner from 1st April, 2016 and their new profit sharing ratio will be 2 : 3 : 5. Gayatri brought in Rs. 6,00,000 as her capital and her share of goodwill premium in cash.

- Goodwill of the firm was valued at Rs. 3,00,000.
- Land and Building was found undervalued by Rs. 26,000.
- Provision for doubtful debts was to be made equal to 5% of the debtors.
- There was a claim of Rs. 6,000 on account of workmen compensation.

Prepare Revaluation Account and Partners' Capital Accounts and show your workings clearly.

OR

Ativ, Megha and Nupur were partners sharing profits in the ratio of 5 : 3 : 2. On 31-3-2016, their Balance Sheet was as under:

Liabilities	Amount	Assets	Amount
	Rs.		Rs.
Trade creditors	26,500	Bank	25,000
Employee's Provident Fund	23,500	Debtors	30,000
Ativ's Capital	1,00,000	Stock	55,000
Megha's Capital	50,000	Fixed Assets	1,20,000
Nupur's Capital	40,000	Def. Advertisement	10,000
	2,40,000	Expenditure	2,40,000

Ativ retired on 1-4-2016. For this purpose, the following adjustments were agreed upon:

- (a) Goodwill of the firm was valued at 2 years' purchase of average profits of 3 completed years preceding the date of retirement. The profits for previous years were:
2013 – 14 Rs. 55,000; 2014 -15 Rs. 65,000; 2015 -16 Rs. 60,000.
- (b) Fixed assets were to be increased by Rs. 25,000.
- (c) Stock was overvalued by Rs. 5,000.
- (d) Rs. 20,000 were immediately paid to Ativ and the balance was transferred to his Loan Account.

Prepare Revaluation Account and partners' Capital Account and show your workings clearly.

22

Rolly Ltd. issued 50,000 shares of Rs. 10 each at a premium of Rs. 2 per share payable as follows: application Rs. 3; allotment Rs. 4 (including premium); balance on call. Applications were received for 75,000 shares and pro rata allotment was made to all the applicants.

Mona who was allotted 800 shares, failed to pay the allotment and first call. Her shares were immediately forfeited. All the forfeited shares were reissued to Mohit @ Rs. 7 per share as fully paid up.

Pass necessary Journal entries in the books of Rolly Ltd. for the above transactions.

OR

i) A company forfeited 240 shares of Rs. 10 each issued to Ram at a premium of 20%. Ram had applied for 300 shares and had not paid anything after paying Rs. 6 per share including premium on application. 180 shares were reissued at ₹ 11 per share fully paid up. Pass Journal Entries for forfeiture and reissue of shares

8

	<p>ii)M Ltd. forfeited 400 shares of ₹ 10 each issued at a premium of ₹ 2 per share for the non payment of allotment of ₹ 5 (including premium) and first and final call of ₹ 2 per share. Out of forfeited shares 200 shares were reissued at ₹ 9 per share. 100 shares were reissued at ₹ 10 per share, 80 shares were reissued at ₹ 12 per share and rest 20 were remained unissued. Pass Journal Entries for forfeiture and reissue of shares</p> <p>iii)On 28.2.2016 the first call of ₹ 2 per share became due on 50,000 shares allotted by Kumar Ltd. Komal, a holder of 1,000 shares did not pay the first call money. Kovil, a holder of 750 shares paid the second and final call of ₹ 4 per share along with the first call.</p> <p>Pass the necessary journal entry for the amount due and received on first call by opening calls in arrears and calls in advance account in the books of the company.</p>	
	PART—B (FINANCIAL STATEMENT ANALYSIS)	
23	<p>Which of the following is Cash and Cash Equivalents:</p> <p>(a) Sale of Fixed Assets</p> <p>(b) Interest Received</p> <p>(c) Refund of tax</p> <p>(d) Marketable Securities</p>	1
24	<p>True/False</p> <p>The Current Ratio of a Company is 2 : 1. Bills Payable Rs. 5,000 discharged will result in increase in Current Ratio.</p>	1
25	<p>Bank overdraft is shown under :</p> <p>(a) Short term borrowings</p> <p>(b) cash equivalent</p> <p>(c) Other current liability</p> <p>(d) long term borrowings</p>	1
26	<p>From the following particulars, what will be the amount of provision for tax made during the year?</p> <p>Provision for Taxation</p> <p>31.3.2011 Rs. 50,000</p> <p>31.3.2012 Rs. 40,000</p> <p>The Company paid taxes Rs. 45,000 for the year 2011-2012.</p> <p>(a) Rs. 45,000</p> <p>(b) Rs. 35,000</p> <p>(c) Rs. 40,000</p> <p>(d) Rs. 50,000</p>	1

27	Calls-in-Advance is shown under the head of	1															
28	Quick Assets = ? (a) Current Assets – Prepaid Expenses (b) Current Assets – Inventory – Prepaid Expenses (c) Current Assets + Inventory – Prepaid Expenses (d) Current Assets – Inventory + Prepaid Expenses	1															
29	Fixed assets of a company are increased from Rs. 3,00,000 to Rs. 4,00,000. What is the percentage change? (a) 25% (b) 33.3% (c) 20% (d) 40%	1															
30	(a) Net profit after interest and tax Rs. 1,00,000; Current assets Rs. 4,00,000; Current liabilities Rs. 2,00,000; Tax rate 20%; Fixed assets Rs. 6,00,000; 10% Long term debt Rs. 4,00,000. Calculate Return on Investment. (b) Rate of Gross profit on cost of a company is 25%. Its Gross profit is Rs. 5,00,000. Its shareholders' Funds are Rs. 12,00,000; Current liabilities are Rs. 3,00,000 and Current Assets are Rs. 10,00,000. Calculate its Working Capital Turnover ratio. OR Calculate the amount of opening inventory and closing inventory from the following figures: Average Debt collection period -4 months, Inventory turnover ratio- 3 times. Average Trade Receivables - ₹ 1,00,000 , Cash Revenue from operations being 25% of total Revenue from operations, Gross profit ratio 25% , Inventory at the end was 3 times that in the beginning.	3 *															
31	From the following information, prepare Comparative statement of Profit and Loss: <table border="1"> <thead> <tr> <th></th> <th>31.03.2016</th> <th>31.03.2015</th> </tr> </thead> <tbody> <tr> <td>Revenue from operations (% of cost of material consumed)</td> <td>125%</td> <td>200%</td> </tr> <tr> <td>Cost of material consumed</td> <td>₹ 3,36,000</td> <td>₹ 1,50,000</td> </tr> <tr> <td>Other expenses (% of operating revenue)</td> <td>10%</td> <td>10%</td> </tr> <tr> <td>Tax rate</td> <td>30%</td> <td>30%</td> </tr> </tbody> </table>		31.03.2016	31.03.2015	Revenue from operations (% of cost of material consumed)	125%	200%	Cost of material consumed	₹ 3,36,000	₹ 1,50,000	Other expenses (% of operating revenue)	10%	10%	Tax rate	30%	30%	4
	31.03.2016	31.03.2015															
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Cost of material consumed	₹ 3,36,000	₹ 1,50,000															
Other expenses (% of operating revenue)	10%	10%															
Tax rate	30%	30%															

OR

Following is the Statement of Profit & Loss of X L Limited for the year ended March 31, 2017:

Statement of Profit & Loss for the year ended March 31, 2017

Particulars	Note No.	2015-16 Amount (Rs.)	2016-17 Amount (Rs.)
Revenue from Operations		50,00,000	80,00,000
Expenses:			
(a) Employee Benefit Expenses: 10 % of Revenue from Operations			
(b) Other Expenses		10,00,000	12,00,000
Tax Rate 40 %			

Prepare Comparative Statement of Profit & Loss of X L Limited.

32

From the following Balance Sheets of Solar Lights Ltd. for the years ended 31st March 2014 and 31st March 2015, Prepare a statement showing Cash Flow from Operating Activities:

6

Particulars	Note No.	31 st March 2015 Rs.	31 st March 2014 Rs.
I. EQUITY AND LIABILITIES			
1. Shareholder's Funds:			
a) Share Capital		12,00,000	11,00,000
b) Reserves and Surplus		3,00,000	2,00,000
2. Non - Current Liabilities:			
Long term Borrowings		2,40,000	1,70,000
3. Current Liabilities:			
a) Short term Borrowings:			
Bank Overdraft		30,000	-----
b) Trade Payables		1,40,000	2,10,000
c) Short Term Provisions	1	<u>60,000</u>	<u>70,000</u>
Total		<u>19,70,000</u>	<u>17,50,000</u>
II. ASSETS			
1. Non – Current Assets:			
a) Fixed Assets:			
(i) Tangible	2	10,70,000	8,50,000
(ii) Intangible	3	40,000	1,12,000

2. Current Assets:			
a) Current Investments		2,40,000	1,50,000
b) Inventories		1,30,000	1,95,000
c) Trade Receivables		1,70,000	1,43,000
d) Cash and Cash equivalents		<u>3,20,000</u>	<u>3,00,000</u>
Total		<u>19,70,000</u>	<u>17,50,000</u>
Notes to Accounts:			
S. No.	Particulars	31st March 2015 (Rs.)	31st March 2014 (Rs.)
1	Short Term Provisions:		
	Provision for Tax	<u>60,000</u>	<u>70,000</u>
2.	Tangible Assets:		
	Machinery	12,70,000	10,00,000
	Less: Accumulated Depreciation	<u>2,00,000</u>	<u>1,50,000</u>
		<u>10,70,000</u>	<u>8,50,000</u>
3.	Intangible Assets:		
	Goodwill	<u>40,000</u>	<u>1,12,000</u>
Additional Information:			
During the year a piece of machinery costing Rs. 24,000 on which accumulated depreciation was Rs. 16,000, was sold for Rs. 6,000.			

ECONOMICS

1. Assertion (A): due to rise in demand for foreign exchange rupee is depreciating.

Reason (R): Government devalues its own currency sometimes.

Alternatives:

- (a) both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- (b) both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A)
- (c) Assertion (A) is true but Reason (R) is false
- (d) Assertion (A) is false but Reason (R) is true

2. Factor services rendered by the households to the firms lead to:

- (a) Real flow
- (b) Money flow
- (c) Services flow
- (d) Both (a) and (c)

3. Cash reserves of the commercial banks with the RBI is a part of money supply. (True/ False).

4. Maximum credit that the commercial banks can legally create is indicated by:

- (a) $1/SLR$
- (b) $(1/CRR) \times (1/ \text{Cash reserves with RBI})$
- (c) $(1/CRR) \times \text{Total Deposits}$
- (d) $(1/CRR) \times (\text{Cash reserves with the RBI})$

5. . In the context of macroeconomic equilibrium, AS refers to

- (a) Output produced
- (b) Planned output
- (c) Value added
- (d) All of the above

6. When $C = 300 + 0.8Y$ and $Y = 500$, saving at zero income level will be:

- (a) 300
- (b) -300
- (c) 0
- (d) 800

7. In Keynesian model, _____ plays a major role as a determinant of level of income.

- (a) Aggregate supply
- (b) Aggregate Demand
- (c) Saving
- (d) None of the above

8. (a) All machines are not capital goods. Justify your answer with valid reasoning

(b) Only net investment, not gross investment shows change in stock of capital. Defend the given statement with valid reasoning

9. Are the following entered (i) On the credit side or debit side and (ii) In the Current Account or Capital Account in the Balance of Payments Account ? Justify your answer with valid reasoning

- (i) Investment from Abroad
- (ii) Transfer of funds to relatives abroad

10. What will be the effect of the following on the balance of payments?

- (i) 'Make in India' programme
- (ii) Import of pulses

BUSINESS STUDIES

Q1. Anuradha has been selling home made cakes, cookies and breads which are made to order. Over the past one year she has witnessed a sudden surge in her business during festival season due to the growing preferences of people for hygiene and quality. Identify the related dimension of business environment.

- (a) Economic dimension
- (b) Social dimension
- (c) Political dimension
- (d) Technological dimension

Q2. Under this method of training the trainee is kept under guidance of a master worker for a prescribed period.

- (a) Apprenticeship training
- (b) Vestibule training
- (c) Internship training
- (d) None of the above

Q3. It is one of the basic managerial functions and requires that before doing something, the manager must prepare an idea of how to work on a particular task. It provides ample scope for creativity and innovation and seeks to bridge the gap between where we are and where we want to go. Name the function of management referred above.

- (a) Controlling
- (b) Organising
- (c) Planning
- (d) Staffing

Q4. Tego Ltd.' is a popular automobile company in India. The company sales targets of the company were adversely affected for a few months due to the ban imposed on sales of diesel vehicles with 2000 cc engine and above in the National Capital Region (NCR). Identify the related limitation of planning because of which the company was not able to achieve its targets.

- (a) Planning leads to rigidity
- (b) Planning may not work in a dynamic environment
- (c) Planning does not guarantee success
- (d) Planning reduces creativity

Q5. It refers to the process of stimulating people to act in a desired manner to achieve certain organisational goals.

- (a) Supervision
- (b) Motivation
- (c) Communication
- (d) Leadership

Q6. Name the process in which candidates are eliminated at every stage and a few move on to the next stage till the right type of candidate is found.

- (a) Training & Development
- (b) Placement & Orientation
- (c) Recruitment
- (d) Selection

Q7. The Principles of Management are considered to be _____ as their application is dependent upon the prevailing situation at a particular point of time.

- (a) Flexible
- (b) General Guidelines
- (c) Contingent
- (d) Mainly Behavioural

Q8. 'Exploration Ltd.' is planning to raise an issue of 3,000 non-convertible debentures (NCDS) of face value of 10 lakh aggregating 300 crore through private placement. Name the type of financial market being approached by the company.

- (a) Secondary market
- (b) Primary market
- (c) Money market
- (d) None of the above

Q9. 'High Steel Ltd.' an Indian company producing 70 million tonnes of steel annually and generating revenue of 40 billion US dollars has recently acquired the world's third largest steel producing company, Heal Steels Ltd.' For this acquisition High Steels Ltd. had to arrange about 70,000 crores of rupees through debt and equity. State the decision made by the company for arranging the funds through debt and equity.

- (a) Financial decision
- (b) Investment decision
- (c) Financial planning
- (d) Dividend decision

Q10. A marketer of mobile phones, does a lot of activities such as planning the type and model of mobile phones to be produced, the price at which it would be sold and selecting the distribution outlets at which the same would be available.' Identify the element of marketing mix not being described in the above lines.

- (a) Product
- (b) Price
- (c) Place
- (d) Promotion

Q11. Match the following:

a.	Basic salary	i.	Self-actualization needs
b.	Cordial relations with colleagues	ii.	Basic physiological needs
c.	Job title	iii.	Esteem needs
d.	Achievement of goals	iv.	Affiliation needs

- A. a-ii,c-iv,b-iii,d-i
- C. a-iv,c-ii,b-iii,d-i

- B. a-iii,c-i,b-iv,d-ii
- D. a-ii,c-iv,b-iii,d-i

OR

A _____ leader believes in giving complete freedom to their subordinates, so as to enable them their own targets and also determine the ways of achieving them.

- (a) Autocratic
- (b) Democratic
- (c) Laissez faire
- (d) Both (b) & (c)

Q12. The vacancy for the post of supervisor in a school was filled up by screening the database of unsolicited applications lying in the office. Name the external source of recruitment used to fill up the above stated vacancy.

- (a) Advertisement
- (b) Direct recruitment
- (c) Recommendation of employees
- (d) Casual callers

OR

_____ involve shifting of an employee from one job to another, one department to another or from one shift to another, without a substantive change in the responsibilities and status of the employee.

- (a) Promotion
- (b) Demotion
- (c) Transfer
- (d) Both (a) & (c)

Read the following text and answer question No.13-16 on the basis of the same:

After doing a course in online trading, Arsh started an online portal for stock trading under the name 'Investment Guru'. He met his school friend Ajay after a long time in a bank where Ajay had come to open a D-Mat account. Arsh urged Ajay to invest in the forthcoming IPO of a blue chip companies whereas Ajay was inclined to buy existing securities of the other companies to build his investment portfolio.

Q13. Identify the type of capital market in which Arsh urged Ajay to invest?

- (a) Money Market
- (b) Primary Market
- (c) Secondary Market
- (d) Stock exchange

Q14. After starting an online portal for stock trading under the name 'Investment Guru', What is Arsh acting as?

- (a) Depository
- (b) Stock exchange
- (c) Depository participant
- (d) Investor

Q15. Identify the types of capital market in which Ajay wishes to invest?

- (a) Money Market
- (b) Primary Market
- (c) Secondary Market
- (d) None of the above

Q16. 'Ajay had come to open a D-Mat account'. What is another name of D-Mat account?

- (a) Bank Account
- (b) Depository Participant Account
- (c) Beneficiary owner's Account
- (d) Stock owner's Account

Read the following text and answer question No.17-20 on the basis of the same:

F.W.Taylor advocated separation of planning and execution functions. This concept was extended to the lowest level of the shop floor. Under the factory manager there was a planning incharge and a production incharge. Under planning incharge, four personnel. These four personnel would draft instructions for the workers, specify the route of production, prepare time and cost sheet and ensure discipline respectively. Under Production incharge, four personnel. These respectively were responsible for timely and accurate completion of job, keeping machines and tools etc., ready for operation by workers, ensure proper working condition of machines and tools and check the quality of work.

Q17. Which technique of Taylor has been discussed in the above text?

- (a) Work study
- (b) Differential piece wage rate system
- (c) Functional foremanship
- (d) Standardisation and Simplification

Q18. This technique is an extension of one of the principle of Henri Fayol. Identify the principle.

- (a) Initiative
- (b) Unity of command
- (c) Unity of direction
- (d) Division of work and specialization

Q19. By profession, F.W. Taylor was a

- (a) Mechanical engineer
- (b) Mining engineer
- (c) Psychologist
- (d) Human resource officer

Q20. This technique violates one of the principle of Henri Fayol. Identify the principle.

- (a) Initiative
- (b) Unity of command
- (c) Unity of direction
- (d) Division of work and specialization

Q21. Describe briefly the following methods of training:

- (a) Apprenticeship Training
- (b) Internship Training (3)

Q22. Explain the objectives of management. (3)

Q23. State any three points of features of Business Environment.

OR

State any three points of importance of Business Environment. (3)

Q24. Explain the technique work study of Scientific Management and its 2 types.

OR

Write difference between Fayol's and Taylor's approach to management. (3)

Q25. Mr. Nikhila production manager in 'D. Kumar Ltd.' contacted Mr. Kabir marketing manager on intercom to discuss about schedule of product delivery.

- (a) Identify and explain the type of communication being referred to in the above line.
- (b) State the two categories in which this type of communication can be further classified. (4)

Q26. Name and state the process that is used by a producer when he wants to market his products by a name other than its generic name. Also state any two terms that are related to the process. (4)

Q27. Differentiate between primary market and secondary market.

OR

Distinguish between capital market and money market. (4)

Q28. The last step in the process of controlling is 'taking corrective actions'. Briefly explain the steps in chronological order that are taken in the process of controlling before this step.

OR

“Controlling is an indispensable function of management. Without controlling the best of plans can go awry”. Do you agree? Explain any four reasons in support of your answer. (4)

Q29. Karina Kher is one of the most successful managers of her company, 'Kapoor Ltd'. She uses her creativity and initiative in handling challenging situations at work. The knowledge gained by her during her student days at a renowned management institute as well as through her observation and experience over the years is applied by Karina Kher in a skillful manner in the context of the realities of a given situation. She often reads books and other literature in various fields of management to keep her knowledge updated.

- a) An aspect of the nature of management is being highlighted in the above description. Identify the aspect.
- b) Explain any three features of the aspect identified in part (a). (4)

Q30. Holy Medicare Ltd., a new and leading manufacturer of herbal and ayurvedic medicines has captured a large share of the market in a short span of time. The Research and Development (R&D) department of the company spends considerable time and effort in developing eco-friendly, chemical free and healthy alternatives for a variety of products of daily use, like toothpaste, biscuits, noodles, soaps, shampoos and detergents etc. Their business orientation differs from competitors who are short sighted and serve only consumer's needs. Instead Holy Medicare Ltd. considers larger issues of long term social welfare, paying attention to social, ethical and ecological aspects of marketing.

- a) Identify and explain the marketing management philosophy adopted by Holy Medicare Ltd.
- b) Identify the component of marketing mix being described above. Also, state any two other component of marketing mix. (4)

Q31. Dreeva is an enterprising business woman who has been running a printing shop for the past eight years. She has saved 5 Lakhs from her business. She shared with her family her desire to utilize this money to expand her business. Her family members gave her different suggestions like buying new machinery to replace the existing one, acquiring altogether new equipments with latest technology, opening a new branch in other part of the city and so on. Since these decisions are crucial for her business, involve a huge amount of money and are irreversible except at a huge loss, Dreeva wants to analyze all aspects of the decisions, before taking any final decision.

- a) Identify and explain the financial decision to be taken by Dreeva.
- b) Also, explain briefly the factors that will affect this decision. (6)

Q32. Explain any 4 differences between 'Delegation' and 'Decentralisation', specifying the basis of difference.

OR

Explain 'Authority', 'Responsibility' and 'Accountability' as elements of Delegation. (6)

Q33. The consumer grievances are redressed by the three tier machinery under the Consumer Protection Act. Explain all in detail. (6)

Q34. "If the project is important then more alternatives should be generated and thoroughly discussed amongst the members of the organisation." Identify and explain the step in the process of planning being discussed above. Also explain the remaining steps which will have to be carried out to complete the process.

OR

"Dreams can be turned into reality only if business managers think in advance on what to do and how to do it." Identify and explain one of the function of management being referred to in the above lines and explain any five of its features. (6)

POLITICAL SCIENCE

NITI AAYOG

1. Name the commission which replaced planning commission?
 - a. NITI Aayog
 - b. Reserve Bank of India
 - c. Start-up commission
 - d. Hazari commission
2. Why was the Planning Commission replaced?
3. The Prime Minister of India- Narendra Modi talked about the abolition of Planning Commission on _____, 2014.
4. Who is the ex-officio chairperson of the NITI Aayog?
5. _____ appoints the Vice- Chairperson of the NITI Aayog.
6. Correct the given statement and rewrite:
The first Vice- Chairperson of the NITI Aayog was Arvind Kejriwal.
7. Who is the current Vice-Chairperson of the NITI Aayog?
8. What is the main objective of NITI Aayog?
9. Which institute has been called the "Think Tank of the Union government"?
10. Which approach does the NITI Aayog follow?

THE EARLY INITIATIVES

1. The budget of the central and all the state governments is divided into two parts called _____ budget and _____ budget.
2. How a five year plan is prepared? What is its advantage?
3. When was the first five year plan released?
4. The duration of 2nd Five year plan was _____.
5. Why was the fourth five year plan stopped?
6. What is a Plan Holiday?
7. Correct the given statement:

GEOGRAPHY

1. Future of shifting cultivation is bleak . Analyse the statement.
2. Why Mediterranean agriculture is considered as one of the best and profitable types of agriculture.
3. Define the term density of population. Elaborate any four geographical factors that influence the distribution of population in the world.
4. Explain the features of welfare approach to human development.
5. Map practice a. The state with highest level of urbanisation. B. The leading state in the production of coffee c. Mayurvanj an iron ore mine d. A lignite coal mine in Tamil nadu e. A million plus city.

PSYCHOLOGY

Section-I [1 mark each]

1. The situational perspective views human behaviour as mostly a result of _____ factors.
2. Mamta is suffering from a rare disease but her mother is refusing to accept the reality. She insists on taking Mamta from one doctor to another hoping to hear that nothing is wrong with her daughter. This is the suitable example of _____.
3. The self is described as an subject when it gets affected (True/False)
4. The notion of self-esteem is based on Bandura's social learning theory(True/False)
5. Sunita has recently decided to leave medical school and peruse a career as an artist. Her parents, however, are deeply disappointed with her decision, Sunita is experiencing _____.
6. Many students face high level of anxiety while preparing for board exam, which interferes with their preparation, concentration and performance. This could be due to _____
7. Dhruv fidgets, squirms, climbs and runs around the house aimlessly. He is distracted, inattentive and seems over active in class. Thus, he neither follows instructions, nor completes assignments. The psychologist has diagnosed him with _____.
8. Anupam lacks patience, exhibits high motivation, feels burdened with work and always seems to be in a hurry. He needs to take care of himself as such people are prone to ailments like _____.
9. Which of the following therapist would play the least directive role in the therapeutic process?
10. A therapist teaches clients in a group setting to recognize bodily processes and emotions that they have blocked from their awareness. The therapist is using _____ therapy.
11. When a behaviorist praises the client for using kind word during their conversation and ignores when the client is rude; she/he is employing _____ reinforcement.
12. Stereotype is an example of negative attitude towards people (True/False).
13. When an individual changes in a direction opposite to the existing attitude, it is called incongruent attitude changes. (True/False)
14. There will be consistency between attitude and behaviours when the attitude is weak and occupies an important place in the attitude system. (True/False)

**15. Read the case and answer the questions that follow.
(1x3=3)**

Jasmine is a 13 year old girl studying in class 8 in a renowned school in Delhi. A popular and smart girl, Jasmine has always been known as a fun, interactive and bubbly child. But her mother has been worried for quite some time now. She feels that Jasmine is a changed girl. She spends most of her time in her room wanting to do everything there. She has to be pulled out for meals with the family, doesn't enjoy outings or meeting relatives or even friends. Her appetite has reduced which has resulted in significant loss of weight. Her family feels that she appears to be rather sad most of the time, sometimes even without a reason. Her teacher pointed out that she has been awfully quiet in the last few classes along with slipping grades. She even skips her dance class, something she enjoyed doing the most. When asked by her mother what was wrong, Jasmine said that she doesn't like her life anymore. She feels sad most of the time and wishes she could just end it soon.

- a. The disorder that Jasmine is most likely to be diagnosed as is
 - i. Major depressive disorder
 - ii. Bipolar 1 disorder
 - iii. Cyclothymic disorder
 - iv. Suicide

- b. Women are at risk for this disorder during _____, while for men the risk is highest in_____
 - i. Teenage years, old age
 - ii. Old age, old age
 - iii. Young adulthood, early middle age
 - iv. Childhood, teenage
- c. Measures suggested by WHO to prevent suicide is
 - i. Limiting access to means of suicide / bringing in alcohol related policies
 - ii. Reporting of suicide by media in a detailed way
 - iii. Stigmatising and labelling
 - iv. Reducing conversations about suicide

16. Read the case and answer the questions that follow.

Rajneesh is in class 10th and has to take exams next week that will determine his stream in class 11th and 12th. A day before the exam, he begins to worry excessively. Unable to eat, relax or study, Rajneesh is not able to sleep the entire night. He gets ready for school and reaches on time. On seeing other classmates engrossed in the books, he shivers at the thought of the exam beginning. As he sits at his desk, he feels that he has forgotten everything. He begins to sweat and is distracted by the slightest sounds around him. His mind is blank and is unable to attempt the paper. He thinks about how he will never be able to study science and become a doctor. He begins to cry and a teacher approaches to console him.

- A. Rajneesh seems to be experiencing
 - 1) Burnout 2) Examination anxiety 3) Depression 4) Eustress
- B. The coping strategy used by Rajneesh is –
 - 1) Emotion-oriented strategy 2) Problem focused strategy
 - 3) Avoidance oriented strategy 4) None of the above
- C. A stress management technique that will be helpful for Rajneesh in the future is
 - 1) Life skills 2) Self-care 3) Rational thinking 4) Relaxation techniques
- D. The source of Rajneesh’s stress is
 - 1) Traumatic events 2) Hassles 3) Life events 4) Frustration

17. Read the case and answer the questions that follow.

Arpita has been having a tough time. Her father recently confessed about a lot of debt that he owes to the bank and a few local moneylenders. Arpita is very upset with all the fights that take place between her parents every morning and evening. She is worried about her and her younger brother’s schooling as well. However, today morning she received an email about a paid work from home opportunity as a content writer. She is glad that she’ll be able to contribute to the household expenses. She is also spending more time with her brother to help him study so that his tutor’s expenses can be reduced. Even though Arpita is experiencing a tough time financially and with her parents, she is sure that together they can work this situation out. She is working hard at school, taking care of her brother and assuring her parents that this tough time will be over soon.

- A. A personality characteristic displayed by Arpita here is
 - 1) Resilience 2) Positive attitude 3) Optimism 4) Assertiveness/ Hardiness
- B. Arpita made use of the following coping strategy
 - 1) Avoidance oriented strategy 2) Task oriented strategy
 - 3) Emotion oriented strategy 4) None of the above

- C. An individual's response to a stressful situation largely depends on
1) Resilience 2) Primary appraisal 3) Past experiences 4) Physical health
- D. Arpita is trying to provide the following type of social support to her family
1) Tangible support 2) Emotional support 3) Informative support 4) Both a and b

Section-II [3 marks each]

18. Rama has started to hallucinate but yet isn't given any proper diagnosis for her mental illness because her behaviour is normal. Explain the 4 D's that are important to understand the concept of abnormality.
19. Rishab is 21 year old college boy who has exhibits an intense fear of fireworks, gunshots, popping balloons etc. Suggest the most appropriate behavioural therapy that could be used to help him overcome his fear.
20. Suraj a 5 year old boy is showing disruptive and aggressive behaviour in the class. As his teacher which 2 most suitable behavioural therapies can you apply to modify his behaviour?
21. Explain any 2 types of psychological stress.
22. What are life skills? List any two life skills.
23. What is psychoneuroimmunology?

Section-II [4 marks each]

24. Seema is a 33 year old renowned therapist in Delhi. She has the ability to monitor her and other's emotions. She is able to discriminate among them, and to use the information to guide one's thinking and actions. Which type of intelligence is she high on and state the characteristics of such people.
25. Sita and Gita are exceptionally intelligent children of highly successful doctor parents. While Sita is their biological child, Gita is an adopted one. How can you explain the similarities in their intelligence with their doctor parents? What type of test would you suggest to assess their intelligence?

HISTORY TOPIC: Bricks, Beads and Bones

1. Explain the main sources of Information for the study of Harappan civilization.
2. Explain the extent of the Harrappan civilization. Mark major sites of this civilization on a map of India and Pakistan.
3. What do you know about the different types of food available to the people? What different technology was used for their production? What are the various sources from which we get this information?
4. Explain the process that must have been used for mixing, blending and cooking by this civilization.
5. Explain the main features of town planning of Indus civilization.
6. How can you say that Harrappan people had a great sense of cleanliness and personal hygiene?
7. How can you say that the people of Indus civilization believed in Life after Death?
8. How was this system similar to Egyptian Civilization?
9. What are the different sources on the basis of which Archaeologists classify the remains?
10. What information do we get about the various kinds of crafts production and their centers, about the different materials used for crafts? What information have we gathered from them?
11. Explain the sources that tell us that the people of Indus valley maintained relations inter other countries?
12. Write a note on the Indus seals. What do we know about the script? Has it been deciphered or not?
13. Explain the weights and measures found in Indus civilization? What system was used for large distance exchange of goods and what is the present system?
14. What do we know about the government found at various sites of Indus civilization?

IP

1. Given a Pandas series called Sequences, the command which will display the first 4 rows is _____.

- a. `print(Sequences.head(4))`
 - b. `print(Sequences.Head(4))`
 - c. `print(Sequences.heads(4))`
- `print(Sequences.Heads(4))`

2. Given the following Series S1 and S2: S1 S2

A	10	A	80
B	40	B	20
C	34	C	74
D	60	D	90

3. Write the command to find the sum of series S1 and S2

4. In a DataFrame, Axis= 1 represents the _____ elements.

5. Consider the following DataFrame **df** and answer any four questions from (i)- (v)

rollno	name	UT1	UT2	UT3	UT4		
1	Prerna Singh			24	24	20	22
2	Manish Arora			18	17	19	22
3	Tanish Goel			20	22	18	24
4	Falguni Jain			22	20	24	20
5	Kanika Bhatnagar			15	20	18	22
Ramandeep Kaur	20	15	22	24			

6. Write down the command that will give the following output. a. `print(df.max)` b. `print(df.max())`
c. `print(df.max(axis=1))` d. `print(df.max, axis=1)`

7. The teacher needs to know the marks scored by the student with roll number 4. Help her to identify the correct set of statement/s from the given options : a. `df1=df[df['rollno']==4]`
`print(df1)` 1 Page 5 of 14 b. `df1=df[rollno==4]` `print(df1)` c. `df1=df[df.rollno=4]` `print(df1)` d.
`df1=df[df.rollno==4]` `print(df1)`

8. Which of the following command will display the column labels of the DataFrame? a. `print(df.columns())` b. `print(df.column())` c. `print(df.column)` d. `print(df.columns)`

9. Ms. Sharma, the class teacher wants to add a new column, the scores of Grade with the values, 'A', 'B', 'A', 'A', 'B', 'A', to the DataFrame. Help her choose the command to do so: a. `df.column=['A','B','A','A','B','A']` b. `df['Grade']=['A','B','A','A','B','A']` c. `df.loc['Grade']=['A','B','A','A','B','A']` d. Both (b) and (c) are correct

10. Which of the following statement/s will give the exact number of values in each column of the dataframe?

- i. `print(df.count())`
- ii. `print(df.count(0))`
- iii. `print(df.count)`
- iv. `print(df.count(axis='index'))`

11. Consider a given Series, M1: Marks Term1 45 Term2 65 Term3 24 Term4 89 Write a program in Python Pandas to create the series

12. Write a program in Python Pandas to create the following DataFrame batsman from a Dictionary: B_NO Name Score1 Score2 1 Sunil Pillai 90 80 2 Gaurav Sharma 65 45 3 Piyush Goel 70 90 4 Kartik Thakur 80 76 Perform the following operations on the DataFrame : 1) Add both the scores of a batsman and assign to column "Total" 2) Display the highest score in both Score1 and Score2 of the DataFrame. 5 Page 12 of 14 3) Display the DataFrame

C.S.

(1 MARK QUESTIONS)

1. Ms. Kant Sengupta wants to prevent unauthorized access to/from his company's local area network. Write the

name of a system (software/hardware), which he should install to do the above.

2. Seven Brother Fashion Inc. is a fashion company with design unit and market unit 130 meters away from each other. The company recently connected their LANs using Ethernet cable to share the stock related information. But, after joining their LANs, they are not able to share the information due to loss of signal in between. Which device out

of the following should you suggest to be installed for a smooth communication?

(i) Modem (ii) Repeater (iii) UPS

3. Which of the following is not a feature of Networking?

(i) Resource sharing (ii) Reliability (iii) Uninterrupted power supply (iv) Reduced cost

4. Raj kamal International school is planning to connect all computers, each spread over distance within 45 meters. Suggest an economical cable type having high-speed data transfer, which can be used to connect these computers.

5. Write the name of the most suitable wireless communication channels for each of the following situations.

(i) Communication between two offices in different countries.

(ii) To transfer the data from one mobile phone to another.

6. Chandervardhan is not able to identify the Domain Name in the given URL. Identify and write it for him.

7. Why is a switch called an intelligent hub?

8. What is the use of Repeater in a Network?

9. Distinguish between LAN and WAN.

10. What is the purpose of Modem in network?

11. Write one example of IP Address.

HINDI

1. संवदिया कहानी में हरगोविंद के बारे में गांव वालों की क्या अवधारणा है ,और संवदिया के नाते उसकी क्या विशेषताएं हैं? स्पष्ट कीजिए।
2. आरोहण कहानी के आधार पर भूप सिंह और रूप सिंह के स्वभाव और परिस्थितियों के अंतर को स्पष्ट कीजिए।
3. दूसरा देवदास कहानी के माध्यम से लेखिका ने प्रेम को मुंबई या फिल्मों की परिपाटी से अलग हटाकर उसे पवित्र और स्थाई स्वरूप प्रदान किया है; _इस कथन के समर्थन में तर्कपूर्ण उत्तर दीजिए।
4. सूरदास की झोपड़ी के आधार पर भैरो का चरित्र चित्रण कीजिए।
5. तोड़ो कविता के प्रतिपाद्य को लिखिए और बताइए कि कवि तोड़ने की प्रक्रिया में क्यों विश्वास करता है?

PAINTING

Q.1 Painting composition

Make a imagination-composition on any of the subjects in any medium of your choice on a drawing paper of A3 size. Your composition should be original and effective. Weightage will be given to a well composed drawing, effective use of medium, proper emphasis on the subject matter and utilization of full space.

CLASS XII
CHAPTER – ALDEHYDES , KETONES AND
CARBOXYLIC ACIDS

ONE MARK QUESTIONS

1. Write short notes on the following: (1 x 6 = 6)
- a. Clemmensen reduction b. Aldol Condensation(2008) c. Rosenmund reduction (2011)
- d. Hell-Volhard-Zelinsky e. Cannizzaro reaction f. Cross Aldol Condensation reaction(2014)
2. Give the structure of the following: (1 x 5 = 5)
- a. Hex-2-en-4-ynoic acid b. 3-hydroxy butanal
- c. *p*-Nitropropiophenone d. 3-Bromo-4-phenylpentanoic acid
- e. 3-Methylcyclohexane carbaldehyde

TWO MARK QUESTIONS

1. Explain the following mechanisms:
- a) Nucleophilic attack on a carbonyl group of an aldehyde or a ketone.
- b) Nucleophilic addition of Grignard reagent on a carbonyl group of an aldehyde or a ketone.

THREE MARK QUESTIONS

1. Distinguish the following:
- a) Formic acid and Acetic acid b) Phenol and benzoic acid(2014)
- c) Benzaldehyde and ethanal d) Benzaldehyde and acetophenone(2010)
2. Give the structure of the following:
- a) Hex-2-en-4-ynoic acid b) 2,3- dimethylcyclopentane carbaldehyde
- c) *p*-Nitropropiophenone

FIVE MARK QUESTIONS

1. Arrange the following in the increasing order of the property given as indicated:
- a) Acetaldehyde, acetone, Di-ter-butylketone, methyl-ter-butylketone (Reactivity towards HCl)
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- b) 2-Bromobutanoic acid, 3-bromobutanoic acid, 2-methylpropanoic acid, butanoic acid
(Acid strength)
- c) CH_3CHO , $\text{CH}_3\text{CH}_2\text{OH}$, CH_3OCH_3 , $\text{CH}_3\text{CH}_2\text{CH}_3$ (Boiling point)
- d) Ethanal, Propanal, Propanone, Butanone (Nucleophilic addition)
- e) Benzoic acid, 4-nitrobenzoic acid, 3,4-dinitrobenzoic acid, 4-methoxybenzoic acid
(acid strength)

2. Effect the following conversions:

- a. Propanone to propene
- b. Propanal to 2-butanone
- c. Ethanol to 3-hydroxy butanal
- d. Benzaldehyde to 2-hydroxyphenyl acetic acid.
- e. Acetaldehyde to isopropyl alcohol

3. Account for the following:

- a) Carboxylic acids do not give reactions of carbonyl group. (2014)
- b) Aldehydes are more reactive to nucleophilic addition than ketones. (2008)
- c) Carboxylic acids have higher boiling points than aldehyde, ketones and even alcohols of comparable molecular mass. (2008)
- d) Chloroacetic acid is stronger than acetic acid. (2014)
- e) There are two $-\text{NH}_2$ groups in semicarbazide, however only one is involved in the formation of semicarbazone.

- 4. a) An organic compound A contains 69.77% carbon, 11.63% hydrogen and rest oxygen. The molecular mass of the compound is 86. It does not reduce Tollens' reagent but forms an addition compound with sodium hydrogen sulphite and give positive iodoform test. On vigorous oxidation it gives ethanoic and propanoic acid. Write the possible structure of the compound A.
- b) Write the chemical tests to distinguish between the following pairs of compounds:
 - i. Acetophenone and Benzophenone
 - ii. Ethanol and Propanal (2008)
