

**Half Yearly Examination 2019 – 2020****Time: 3:00 Hrs.****M. M. 80**

- Q- 01 To 20 { each one mark}  
Q- 21 To 22 { each Three Marks}  
Q- 23 To 27 { each 4 Marks}  
Q- 28 To 30 { each 6 Marks}  
Q- 31 To 32 { each 8 Marks }
- Q1- Which statements are included in final accounts of Not For Profit Organization  
A. Income and Expenditure Account B. Balance Sheet  
C. Receipts and Payment Account D. A and B
- Q2- If there is a Match Fund then Match Expenses and Match Income are transferred to  
A. Income and expenditure A/c B. Assets side  
C. Liabilities side D. Both Income and Expenditure and Balance sheet
- Q3- Which of the following items are added to previous year profit for finding for goodwill valuation  
(a) Loss due to fire (b) Loss due to sale of investment  
(c) Loss on sale of fixed assets (d) All of the above
- Q4- Which making and adjustment entry in respect of interest on capital, credit is made to  
(a) Capital account (b) Interest on capital account  
(c) Profit and loss account (d) Interest account
- Q5- A partner acts as-----for a firm.  
(a) Employee (b) Employer (c) Agent (d) Third party
- Q6- Normally, the partners are entitled to -----interest on their capitals.  
(a) 6%, only if there are profits,  
(b) 9%, only when there are profits  
(c) Bank rate of: regardless of profits or loses  
(d) No: regardless of profit or losses
- Q7- Mr. A and Mr. B started Business on 1<sup>st</sup> April 2006. Calculate the Interest on Drawing of Mr. B @ 10% p.a. for the year ended 31<sup>st</sup> Dec. 2006 if he withdrew Rs. 3,600 p.m. at the end of every quarter.  
(a) Rs. 270 (b) Rs. 405 (c) Rs. 450 (d) Rs. 540
- Q8- A, B and C were partners in a firm sharing profits in the ratio of 8:4:3, B retires and his share is taken up equally by A and B. Find the new profit sharing ratio :  
A. 1:2 B. 2:1 C. 3:2 D None of these
- Q9- A B and C are partners sharing profits equally. A retires and goodwill appearing in the books at Rs 3,000 is valued at 6,000. A will get credit of  
A. 2,000 B. 3,000 C 500 D. 1,000
- Q10- The amount due to the deceased partner is paid to his  
A. Father B. Friends C. Wife D. Executors
- Q11- At the time of dissolution of the firm, loan from partner is  
A. transferred to Realization Account B. not transferred to Realization Account  
C. transferred to the Partners Capital Account D. None of these

- Q12- Revenue from sale of Stock in Trade is shown in the Statement of Profit and Loss A\c  
 A;. Revenue from Operations B. Other Income  
 C. Any of the above D. None of the above
- Q13- What is the ideal Quick Ratio  
 A. 2:1 B. 1:1 C. 1:2 D. 3:2
- Q14- Which ratio measures the relationship between operation cost and sales  
 A. Operating Ratio B. Operating Profit Ratio  
 C. Gross Profit Ratio D. None of these
- Q15- Dividend received by other than financial enterprise is shown in Cash Flow Statement under  
 A. Operation activities B. Investing activities  
 C. Financing activities D. All of these
- Q16- Payment of Income Tax is classified as  
 A. Operation activities B. Investing activities  
 C. Financing activities D. All of these
- Q17- X and Y are partners in a firm with capital of Rs 18,000 and Rs 20,000. Z was admitted for 1/3 share in profits and brings 24,000 as capital. Calculate the amount of goodwill  
 A. 24,000 B. 20,000 C. 15,000 D. 10,000
- Q18- Fluctuating Capital Account is credited with  
 A. Interest on Capital B. Profit of the year  
 C. Remuneration to the partners D. all of these
- Q19- R and S are partners sharing profits in the ratio of 5:3 T joins the firm. R gives 1/4 of his share and S gives, 1/5 of his share to the new partner. Find out new ratio  
 A. 75:48:37 B. 45:32:27  
 C. 13:7:4 D. None
- Q20- 1,000 10% Debentures of 100 each out of 10,000, 10% Debentures are redeemable within the 12 months of the date of Balance sheet. They will be shown in the Current Liabilities as:  
 A. Short term Borrowings B. Other Current Liabilities C. Trade Payables D. Short term Provision
- Q21- How are the following items of subscriptions shown in the Income and Expenditure Account for the year ended 31<sup>st</sup> March 2019
- |  |          |
|--|----------|
| Subscriptions received during the year ended 31 <sup>st</sup> March 2019 | 2,50,000 |
| Subscriptions outstanding on 31 <sup>st</sup> March 2018                 | 20,000   |
| Subscriptions received in Advance on 31 <sup>st</sup> March 2018         | 25,000   |
| Subscriptions received in Advance on 31 <sup>st</sup> March 2019         | 14,000   |
| Subscriptions outstanding on 31 <sup>st</sup> March 2019                 | 30,000   |
| { including 10,000 for the year ended 31 <sup>st</sup> March 2018}       |          |
- OR
- Calculate the amount that will be posted to the Income and Expenditure Account for the year ended 31<sup>st</sup> March 2019
- |   |          |
|---|----------|
| Stock of Stationery on 1 <sup>st</sup> April 2018   | 30,000   |
| Creditors for Stationery on 1 <sup>st</sup> April 2018                                      | 20,000   |
| Advance paid for stationery carried forward from the year ended 31 <sup>st</sup> March 2018 | 2,000    |
| Amount paid for Stationery during the year ended 31 <sup>st</sup> March 2019                | 1,08,000 |
| Stock of Stationery on 31 <sup>st</sup> March 2019  | 5,000    |
| Creditors for stationery on 31 <sup>st</sup> March 2019                                     | 13,000   |
| Advance paid for stationery on 31 <sup>st</sup> March 2019                                  | 3,000    |
- Q22- Z and Y are partners sharing profits in the ratio 2:1. On 31<sup>st</sup> march 2019 their Balance Sheet showed General Reserve of 60,000. It was decided that in future they will share profits and losses in the ratio of 3:2 Pass necessary Journal entry in each of the following alternative cases  
 {1} When General Reserve is not to be shown in the new Balance Sheet  
 {2} When General Reserve is to be shown in the New Balance Sheet

OR

Manish, Vikash and Atul are partners sharing profits and losses in the ratio of 3:2:1. From 1<sup>st</sup> April 2019 they decided to share profits equally. The partnership Deed provides that in the event of any change in profit sharing ratio, goodwill shall be valued at three years purchase of average profits of last five years. The profits and losses of past five year are

Profit – Year ended 31<sup>st</sup> March 2015- 1,00,000; 2016- 1,50,000; 2018- 2,00,000; 2019- 2,00,000

Loss – Year ended 31<sup>st</sup> March 2017- 50,000

Pass the journal entry showing the working .

Q23-. [a] The quick ratio of a company 1.5:1.State with reason which of the following transactions would [1] Increase [2] Decrease or [3] not change the ratio [I] Paid rent 3000 in advance [2] Trade receivables included a debtor Shri Ashok who paid his entire amount due 9700

[b]From the following information compute “Proprietary Ratio”

Long term Borrowings 2,00,000; Long Term Provision 1,00,000; Current Liabilities 50,000; Non Current Liabilities 3,60,000; Current Assets 90,000

OR

On the basis of the following information calculate [1] Gross Profits Ratio [2] Working Capital Turnover Ratio [3] Debt Equity Ratio [4] Quick Ratio

Net Sales 30,00,000 ; Cost of Goods Sold 20,00,000; Current Assets 6,00,000; Current Liabilities 2,00,000; Paid up Share Capital 5,00,000; Debenture 2,50,000; Loan 1,25,000, Inventory 50,000.

Q24- A, B and C were the partners in a firm, sharing profits in the ratio of 4:3:3. The firm was dissolved on 28.2.2005. After transfer of assets and external liabilities to Realisation Account the following transactions took place :

(i) K, a creditor, to whom Rs. 6,000 were due to be paid, accepted office equipment at Rs. 4,000 and the balance was paid to him in cash.

(ii) L, a creditor, to whom Rs. 16,000 were due to be paid, took over machinery at Rs. 20,000. Balance was paid by him in cash.

(iii) An unrecorded liability of the firm Rs. 7,800 was paid by A.

(iv) The loss on dissolution was Rs. 10,000.

Pass necessary journal entries for the above transactions in the book of the firm.

OR

X, Y and Z are partners sharing profits and losses in the ratio of 2 : 2 : 1. They agreed to dissolve the firm on 31st March, 1997.On that date the Balance Sheet of the firm was as follows:

**Balance Sheet**

Liabilities	Rs.	Assets	Rs.
Sundry Creditors	5,000	Plant and Machinery	12,000
General Reserve	10,000	Furniture	8,000
Capital Accounts: Rs.		Investments	10,000
X    20,000		Stock	10,000
Y    10,000		Sundry Debtors	13,000
Z <u>10,000</u>	40,000	<i>Less: P.B.D.</i> <u>1,000</u>	12,000
Current Accounts: Rs.		Cash at Bank	9,000
X    5,000		Current Account:	
Y <u>3,000</u>	<u>8,000</u>	Z	<u>2,000</u>
	63,000		63,000

The assets were realized as under:

Plant and Machinery Rs. 15,000; Furniture Rs. 10,000; Debtors realized in full; Stock Rs.8,000. Investments were taken over by Z at book value. Creditors were paid at a discount of 10%. Realization expenses amounted to Rs.200. There was an unrecorded asset of Rs 1,000 which was taken over by X and Rs.800 and there was an unrecorded liability amounted to Rs.100. Close the books of the firm. Prepare Realization Account.

- Q25- M K Limited is a computer hardware manufacturing company. While preparing its accounting records it takes into consideration the various accounting principles and maintains transparency. At the end of the accounting year, the company follows the 'Companies Act, 2013 and Rules thereunder' for the preparation of its Financial Statements. It also prepares its Income Statement and Balance Sheet as per the format provided in Schedule III to the Act. Its Financial Statements depict its true & fair financial position. For the financial year ending March 31, 2017, the accountant of the company is not certain about the presentation of the following items under relevant Major Heads & Sub Heads, if any, in its Balance Sheet:
- (i) Securities Premium Reserve
  - (ii) Calls in Advance
  - (iii) Stores & Spares
- (a) Advise the accountant of the company under which Major Heads and Sub Heads, if any, he should present the above items in the Balance Sheet of the company,
- (b) List any two values that the company is observing in the maintenance of its accounting records and preparation of its financial statements.

OR

- (a) Under which major headings and sub-heading will the following items be shown in the Balance Sheet of a company as per Schedule III of Companies Act, 2013 ?
- (i) Provision for employee benefits.
  - (ii) Calls in advance.
  - (iii) Stores & Spares
- (b) State any one limitations of 'Analysis of Financial Statements'.

- Q26- Prepare a Comparative Income Statement of Amit Ltd. With the help of the following [4]

Particular	31 <sup>st</sup> March 2016	31 <sup>st</sup> March 2015
Revenue from Operations	4,00,000	2,50,000
Cost of Material Consumed	70% of Revenue from Operation	60% of Revenue from operation
Other Expenses	12,000	10,000
Income Tax	50% of net Profit before Tax	50% of net Profit before Tax

- Q27- Explain [1] Entrance Fees [2] Life Membership Fees [3] Donation [Whit Types]

OR

Explain [1] Subscription [2] Legacy [3] Expenditure [With Types]

- Q28- From the following Receipts and Payments Account and other information of a Club, prepare Income and Expenditure Account for the year ending 31<sup>st</sup> March 2018 and a Balance sheet on that date.

Receipts and Payments Account

Receipts	Amount	Payment	Amount
To Balance b/d	6,380	By Rent	3,360
To Entrance Fees	5,100	By Wages	4,900
To Subscription	32,000	By Lighting	1,440
To Donation	3,300	By Lecture Rees	8,700
To Life Member's Fees	5,000	By Books	4,260
To Interest	280	By 10% Deposit on	
		1 <sup>st</sup> Oct. 2007	25,000
To Profit from Entertainment	840	By Balance c/d	5,240
	<u>52,900</u>		<u>52,900</u>

- 1- At the beginning of the year the Club owned Building Rs 40,000 and Books Rs 10,000
  - 2- Annual Subscription in arrear at the beginning of the year amounted to Rs 700 and in advance Rs 800.
  - 3- At the end of the year Subscription in arrears were Rs 900 and Rent were prepaid to the extent of Rs 480.
  - 4- Depreciation is to be provided on Building and Books 10%.
  - 5- A Provision is to be made for Repairs on Building amounting to Rs 2,000
  - 6- 50% Entrance fees is to be capitalized .
- Prepare the Club Income and Expenditure Account for the year ended 31<sup>st</sup> March 2018.

OR

Following RECEIPTS AND PAYMENTS ACCOUNT for the year ending 31st March, 2006

Receipts	Amount	Payments	Amount
Balance b/d	19,550	Salaries	3,000
Subscriptions :		Newspaper	2,050
2004-05   1200		Electricity Bill	1,000
2005-06  26500		Bill Fixed deposits	20,000
2006-07  500	28,200	(on 1.7.2005 @9%)	
Sale of old newspapers	1,250	Books	10,600
		Rent	10,500
Government Grants	10,000	Furniture	6,800
Sale of old furniture	5,700	Balance c/d	11200
(Book Value Rs.7,000)			
Interest on fixed deposits	450		<u>65150</u>

Additional Information: (i) Subscription outstanding as on 31st March, 2005 were Rs. 2,000 and on 31st March, 2006 Rs. 2,500. (ii) On 31st March, 2006 salary outstanding was Rs. 600 and rent outstanding was Rs.1200 (iii) The club owned furniture Rs.15,000 and books Rs.7,000 on 1st April, 2005. Prepare income and expenditure account of the club for year ending 31st March, 2006.

Q29- Following is the Balance Sheet of Mevanca Limited as at 31st March, 2017 Mevanca Ltd.

Balance Sheet as at 31st March, 2017

I Equity and Liabilities

1. Shareholder's Funds

(a) Share Capital	3,00,000	1,00,000
(b) Reserves and Surplus	25,000	1,20,000
2. Non-Current Liabilities		
Long-term Borrowings	80,000	60,000
3. Current Liabilities		
(a) Trade Payables	6,000	20,000
(b) Short-term Provisions	68,000	70,000
Total :	<u>4,79,000</u>	<u>3,70,000</u>

II. Assets

1. Non-Current Assets

Fixed Assets	3,36,000	1,92,000
2. Current Assets		
(a) Inventories	67,000	60,000
(b) Trade Receivables	51,000	65,000
(c) Cash and Cash Equivalents	25,000	49,000
(d) Other Current Assets	-----	4,000
Total :	<u>4,79,000</u>	<u>3,70,000</u>

Notes to Accounts

(i)	Reserves and Surplus		
	Surplus i.e., Balance in Statement of Profit & Loss	25,000	1,20,000
(ii)	Long-term Borrowings		
	10% Long term Loan	80,000	60,000
(iii)	Short-term Provisions		
	Provision for Tax	68,000	70,000
(iv)	Fixed Assets		
	Machinery	3,84,000	2,15,000 Accumulated
	Depreciation	(48,000) (23,000)	

Additional Information :

- (i) Additional loan was taken on 1st July, 2016.
- (ii) Tax of 53,000 was paid during the year. Prepare Cash Flow Statement.

OR

From the following Balance Sheet of Ajanta Limited as on March 31, 2017, prepare a Cash Flow Statement:

Particulars	Note Number	31-3-2017 (Rs.)	31-3-2016 (Rs.)
<b>I. Equity and Liabilities</b>			
(1) Shareholders' Funds			
	(a) Equity Share Capital	10,00,000	10,00,000
	(b) Reserves and Surplus	2,40,000	1,20,000
(2) Non- Current Liabilities			
	Long-Term Borrowings- 9 % Debentures	3,20,000	2,40,000
(3) Current Liabilities			
	(a) Trade Payables	1,80,000	2,40,000
	(b) Other Current Liabilities	1,80,000	1,60,000
		<u>19,20,000</u>	<u>17,60,000</u>
<b>II. Assets</b>			
(1) Non-Current Assets			
	(a) Fixed Assets		
	Tangible Assets	13,40,000	12,00,000
	(b) Non-Current Investments	2,40,000	1,60,000
(2) Current Assets			
	(a) Inventories	1,20,000	1,60,000
	(b) Trade Receivables	1,60,000	1,60,000
	(c) Cash and Cash Equivalents	60,000	80,000
		<u>19,20,000</u>	<u>17,60,000</u>

**Notes to Accounts**

1	Reserves and Surplus		
	General Reserve	1,20,000	1,20,000
	Balance in Statement of Profit & Loss	1,20,000	.....
2-	Trade Payables		
	Creditors	1,40,000	1,20,000
	Bills Payable	40,000	1,20,000
3-	Other Current Liabilities		
	Outstanding Rent	1,80,000	1,60,000
4-	Tangible Assets		
	Plant & Machinery	14,90,000	13,00,000
	Accumulated Depreciation	(1,50,000)	(1,00,000)
5-	Non-Current Investments		
	Shares in XYZ Limited	2,40,000	1,60,000

Additional Information:

(a) During the year 2016-17, a machinery costing Rs. 50,000 and accumulated depreciation thereon Rs. 15,000 was sold for Rs. 32,000.

(b) 9 % Debentures Rs. 80,000 were issued on April 1, 2016.

Q30- P and Q are partners in a firm with capital of 3,00,000 and 2,00,000 respectively. P gave a loan of 1,50,000 to the firm. The profit of the firm before allowing interest on loan amounted to 75,000 for the year ending 31<sup>st</sup> March 2017. Prepare P&L Appropriation and Partners Capital A/c

[1] Interest on capital be allowed @5% p.a.

[2] Interest on drawing is charged @6% p.a. Drawings of P and Q during the year were 50,000; and 40,000

[3] P is allowed commission @1% on sales which is 3,00,000

[4] Q is entitled to a commission @5% of Net profit after charging commission of P and his own,

[5] 10% of divisible profit be transferred to Reserve Account

OR

The partners of a firm distributed the profit for the year ended march 31, 2018. 150,000 in the ratio of 2:2:1 without providing for the following adjustment

1- A and B were entitled to a salary of 1500 per quarter

2- C was entitled to a commission of 18,000

3- A and C had guaranteed a minimum profit of 50,000 p.a. to B

4- Profits were to be shared in the ratio 3:3:2.

Pass necessary journal entry.

Q31- The Balance Sheet of X, Y and Z who were sharing profits in the ratio of 5 : 3 : 2 as at March 31, 2007

Liabilities	Amount	Assets	Amount
Creditors	50,000	Cash at Bank	40,000
Employees' Provident Fund	10,000	Sundry Debtors	1,00,000
Profit & Loss A/c	85,000	Stock	80,000
		Fixed Assets	60,000
Capital A/cs :			
X	40,000		
Y	62,000		
Z	33,000		
	<u>1,35,000</u>		
	<u>2,80,000</u>		<u>2,80,000</u>

X retired on March 31, 2007 and Y and Z decided to share profits in future in the ratio of 2:3 respectively.

The other terms on retirement were as follows :

(i) Goodwill of the firm is to be valued at Rs. 80,000.

(ii) Fixed Assets are to be depreciated to Rs. 57,500

(iii) Make a provision for doubtful debts at 5% on debtors

(iv) A liability for claim, included in creditors for Rs. 10,000, is settled at Rs. 8000.

(v) The amount to be paid to X by Y and Z in such a way that their Capitals are proportionate to their profit sharing ratio and leave a balance of Rs. 15,000 in the Bank Account. Prepare Profit and Loss Adjustment Account and Partners' Capital Accounts. (8)

OR

A, B and C were partners in a firm sharing profits equally: Their Balance Sheet on 31.12.2007 stood as:

**BALANCE SHEET AS AT 31.12.07**

Liabilities	Rs.	Assets	Rs.
A	Rs. 30,000	Goodwill	18,000
B	Rs. 30,000	Cash	38,000
C	Rs. 25,000	85,000 Debtors	43,000
Bills payable	20,000	Less: Bad Debt provision	3,000
Creditors		18,000 Bills Receivable	25,000
Workers Compensation Fund		8,000 Land and Building	60,000
Employees provident Fund		60,000 Plant and Machinery	40,000
General Reserve		30,000	
		<u>2,21,000</u>	<u>2,21,000</u>

It was mutually agreed that C will retire from partnership and for this purpose following terms were agreed upon.

- i) Goodwill to be valued on 3 years' purchase of average profit of last 4 years which were 2004 : Rs.50,000 (loss); 2005 : Rs. 21,000; 2006: Rs.52,000; 2007 : Rs.22,000.
- ii) The Provision for Doubtful Debt was raised to Rs. 4,000.
- iii) To appreciate Land by 15%.
- iv) To decrease Plant and Machinery by 10%.
- v) Create provision of Rs;600 on Creditors.
- vi) A sum of Rs.5,000 of Bills Payable was not likely to be claimed.
- vii) The continuing partners decided to show the firm's capital at 1,00,000 which would be in their new profit sharing ratio which is 2:3. Adjustments to be made in cash

Make necessary accounts and prepare the Balance Sheet of the new partners.

Q32- X and Y are partners sharing profit in the ratio 2:1. Their Balance Sheet as at 31<sup>st</sup> March 2016.

Liabilities	Amount	Assets	Amount
Creditors	50,000	Cash and Bank	10,000
P& L	42,000	Debtors	30,000
Capital		Stock	20,000
X	1,50,000	Investments	16,000
Y	1,24,000	Typewriter	10,000
		Building	2,74,000
	3,66,000	Goodwill	6,000

They admit Z into partnership on the same date on the following terms

- 1- Z brings in 80,000 as his capital and he is given 1/4<sup>th</sup> share in profit
- 2- Z brings in 30,000 for goodwill, half of which is withdrawn by old partners.
- 3- Investments are valued 20,000, X takes over Investments at this value.
- 4- Typewriter is to be depreciated by 10% and Building by 10%
- 5- An unrecorded stock of Stationery on 31<sup>st</sup> March 2016 is Rs 2,000
- 6- By bringing in or withdrawing cash, the Capital of X and Y are to be made proportionate to that of Z on their profit sharing basis.

Pass necessary Journal entries , prepare Revaluation Account, Capital Account and Balance sheet.

OR



On 31st March, 1996 the Sheet of M/s P, R and S sharing profit and Losses in the ratio of 6: 5: 3, stood as follows:

Liabilities	Rs.	Assets	Rs.
Sundry Creditors	37,800	Cash	3,660
Bills Payable	12,600	Sundry Debtors	58,920.
General Reserve	21,000	Stock	52,920
Capital Accounts		Furniture	14,700
P	70,800	Land & Building	90,300
R	29,100	Goodwill	10,500
S	59,700		
			<u>2,31,000</u>

They agree to admit Q into partnership giving him 1/8th Share, on 1.4.1996 on the following terms:

- 1- Furniture be depreciated by Rs. 1,840.
- 2- Stock shall be valued 10% less than the balance sheet. Value
- 3- A provision of Rs. 2,640 be made, for outstanding repair bill.
- 4- The value of land and buildings having appreciated be brought up – to Rs. 1,19,700.
- 5- Value of good will be brought up – to Rs. 28,140.
- 6- Q should bring in cash Rs. 29,400 as his capital.

After making the above adjustments the capital accounts of the old partners be adjusted on the basis of proportion of Q's Capital to his share in the business by bringing in or taking out cash.

You are required to prepare Revaluation Account, Capital Accounts of Partners and Balance Sheet as on 1.4.1996 after Q's admission.

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## Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 80

Q.1 Read the following passage carefully:

### THE ART OF LIVING

- a. The art of living is learnt easily by those who are positive, observant and optimistic. From humble and simple people to great leaders in History, Science or Literature, we can learn a lot about the art of living, by having a peep into their lives, autobiographies or biographies. The daily routines of these great men not only reveal their different, may be unique life styles but also help us learn certain habits and practices they followed. Here are some: read, enjoy and follow in their footsteps as it suits you.
- b. A private workplace always helps. Jane Austen asked that certain squeaky hinge should never be oiled so that she always had a warning whenever someone was approaching the room where she wrote. William Faulkner, lacking a lock on his study door, detached the doorknob and brought it into the room with him. Mark Twain's family knew better than to breach his study door-they would blow a horn to draw him out. Graham Green went even further, renting a secret office; only his wife knew the address and the telephone number. After all, every one of us needs a workplace where we can work on our creation uninterruptedly. Equally we need our private space too!
- c. A daily walk has always been a source of inspiration. For many artists, a regular stroll was essentially a creature inspiration. Charles Dickens famously took three hour walks every afternoon, and what he observed on them fed directly into his writing. Tchaikovsky made do with a two-hour jaunt but wouldn't return a moment early; convinced that doing so would make him ill. Ludwig van Beethoven took lengthy strolls after lunch, carrying a pencil and paper with him in case inspiration struck. Nineteenth century composer Erik Satie did the same on his long hikes from Paris to the working – class suburb where he lived, stopping under street lamps to jot down ideas that came on his journey; it's rumoured that when those lamps were turned off during the war years, his music declined too. One of Simone de Beauvoir's close friends put it this way: 'There were no receptions, parties. It was an uncluttered kind of life, a simplicity deliberately constructed so that she could do her work.' To Pablo the idea of Sunday was an 'at home day.'
- d. The routine of these thinkers are difficult. Perhaps it is because they are so unattainable. The very idea that you can organize your time as you like is out of reach for most of us, so I'll close with a toast to all those who worked with difficulties. Like Francine Prose, who began writing when the school bus picked up her children and stopped when it brought them back; or T. S. Eliot, who found it much easier to write once than he had a day job in a bank than he had a starving poet and even F. Scott Fitzgerald, whose early books were written in his strict schedule as a young military officer. Those days were not as interesting as the nights in Paris that came later, but they were much more productive- and no doubt easier on his liver.
- e. Being forced to follow someone else's routine may irritate but it makes it easier to stay on the path. Whenever we break that trail ourselves or take an easy path of least resistance, perhaps what's most important is that we keep walking.

**1.1** On the basis of your reading of the above passage complete the statements given below with the help of the options that follow: 5

1. The passage is about:

- (i) How to practice walking. (ii) walking every day.  
(iii) the life of genius. (iv) What we can learn from the geniuses.

2. The writers in the past:

- (i) followed a perfect daily routine. (ii) enjoyed the daily.  
(iii) can teach us a lot. (iv) wrote a lot in their books.

3. in their daily routine:

- (i) they have a unique style. (ii) they read books and enjoyed them.  
(iii) they did not get privacy. (iv) they did not mind visitors.

4. Some artists resorted to walking as it was:

- (i) an exercise. (ii) a creative inspiration.  
(iii) essential for improving their health. (iv) helpful in interaction with others.

5. Find the meaning of the word 'noisy' from the para 2.

- (i) squeaky (ii) detached  
(iii) doorknob (iv) hinge

**1.2** On the basis of your reading, answer the following questions below. 7

1. What did Jane Austen like?
2. Why do you think Graham Green hired a secret office?
3. What was rumour about Erik Satie's productivity?
4. How did her limited social life affect Simone de Beauvoir?
5. In what way did T. S. Eliot's day job help him to write?
6. What makes it easier for one to stay on the path?
7. What do you think about the art of living?

**Q.2** Read the following passage carefully:

It is surprising that sometimes we don't listen to what people say to us. We hear them but we don't listen to them. I was curious to know how hearing is different from listening. I had thought both were synonyms, but gradually, I realized there is a big difference between the words.

Hearing is a physical phenomenon. Whenever somebody speaks, the sound waves generated reach you, and you definitely hear whatever is said to you. However, even if you hear something, it doesn't always mean that you actually understand whatever is being said. Paying attention to whatever you hear means you are listening. Consciously using your mind to understand whatever is being said is listening.

Diving deeper, I found that listening is not only hearing with attention, but is much more than that. Listening is hearing with full attention, and applying our mind. Most of the time we listen to someone, but our minds are full of needless chatter and there doesn't seem to be enough space to accommodate what is being spoken.

We come with a lot of prejudices and preconceived notions about the speaker or the subject on which he is talking. We pretend to listen to the speaker, but deep inside, we sit in judgement and are dying to pronounce right or wrong, true or false, yes or no. sometimes, we even come prepared with a negative mindset of proving the speaker wrong. Even if the speaker says nothing harmful, we are ready to pounce on him with own version of things.

What we should ideally do is listen first with full awareness. Once we have done that, we can decide whether we want to make judgment or not. Once we do that, communication will be perfect and our interpersonal relationship will become so much better. Listening well doesn't

mean one has to say the right moment. In fact, sometimes if words are left unspoken, there is a feeling of tension and negativity. Therefore, it is better to speak out your mind, but do so with awareness after listening to the speaker with full concentration.

Let's look at this in another way. When you really listen, you imbibe not only what is not spoken as well. Most of the time we don't really listen even to people who really matter to us. That's how misunderstandings grow among families, husbands and wives, brothers and sisters.

- (a) On the basis of reading of the above passage make notes on it, using headings and sub-headings. Use recognizable abbreviations (wherever necessary- minimum five). Also supply an appropriate title to it. 4
- (b) Write a summary of the passage in about 80 words. 4

WRITING (SEC B)

- Q.3** You are Principal of National Public School, Jaipur. You require a TGT (Maths) for your school. Draft a **suitable advertisement** in not more than 50 words for the 'Situations Vacant' column of 'The National Times' stating essential and desirable qualifications, experience etc of the candidates. 4

OR

Arts Club of your school is going to organize a drawing and painting competition. Write a **notice** in not more than 50 words, to be displayed on the school notice board, inviting students to participate in it. Give all the necessary details. You are Rishabh/Ridhima, Secretary, Arts Club, Sunrise Public School, Gurugram, and Haryana.

- Q.4** You have realized the necessity of education and financial independence of women for their family, society and in turn for the nation. Write a **letter to the Editor**, National Times' highlighting your ideas on the importance of education of women leading to a better status for them. You are Tarun/Taruna, B-7/9, and Mall Road, Delhi. (100 - 125 words) 6

OR

You are the In-charge of Medical Section of Gyanodaya Public School, Nehru Vihar, and Alwar. Your stock of medicines is about to finish. Write a **letter to the Director** of Jambo Medicare, Delhi, ordering medical items like glucose, crocin, bandages, tincture, pain healers, ointments, etc. ask for the discount on bulk order. Invent other necessary details.

- Q.5** Over the past few years there has been a constant rise in coaching institutes and private tuition centers all over India. Write an **Article** in about 150-200 words highlighting the exploitation of young minds that seek sincere counseling and proper direction. You are Gurmeet, a student of class XII of Indira Public School, Jameshedpur 10

OR

Regular practice of yoga is useful in maintaining good health. It is also important for good concentration and peace of mind. You are Shivam/Shabnam. Write a **speech** in 150 - 200 words to be delivered in the morning assembly of your school, highlighting the impact of yoga in our life.

- Q.6** People like to travel to their places of work in their own cars. It is comfortable and they also reach their destinations more or less in time. However, use of private vehicles leads to pollution and traffic jams and it is expensive also. Air-conditioned public buses, which are smaller in size, seating 15 - 20 people and tickets, reasonably priced can be a boon for the people. Write an **article** in 150 - 200 words on the topic. 'Need of better Public Transport'. You are Resham/Rehana. 10

OR

Your school held a two-day Diwali Mela in the school grounds. Various food stalls were put up by the students. On the second day, there was a song and dance programme. Prizes were awarded to the participants. However, there were no fireworks. You are Amit/Amrita. Write a **report** on the event in 150 - 200 words for your school magazine.

LITERATURE (SEC C)

**Q.7 Read the lines given below and answer the questions that follow: 1×8=8**

I Unless, governor, inspector, visitor,  
This map becomes their window and these windows  
That shut upon their lives like catacombs  
Break o break open till break the town

- (a) What is meant by “this map”?
- (b) What are ‘these windows’ which the poet talks of?
- (c) What has been referred to as ‘catacombs’?
- (d) Why there is a mention of three categories of people here?

II ‘All’ we have to fear is fear itself.’

- (a) When did the writer learn this lesson?
- (b) What did the writer wanted to prove?
- (c) Name the lesson and the writer from which the lines been taken?
- (d) Prove that ‘Fear is mankind’s greatest handicap’.

**Q.8 Answer any five of the following questions in 30-40 words: 2×5=10**

- (a) How does illiteracy and ignorance play a cruel game in the lives of people?
- (b) According to Pablo Neruda, how would keeping quiet be an exotic moment?
- (c) What considerations influenced the Tiger King to get married?
- (d) Why did Jo disapprove of Jack’s ending of the story of Roger skunk?
- (e) What does Charley compare Grand Central Station to? Why?
- (f) In your opinion, what could be the reason for the disintegration of Gondwana?
- (g) Explain: ‘wan, pale as a late winter’s moon.’

**Q.9 Answer any one of the following questions in 120-150 words: 6**

- 1. What did Gandhi do with regard to the cultural and social backwardness in the Champaran villages?
- 2. The story ‘The Rattrap’ focuses on human loneliness and the need to bond with others. Comment.

**Q.10 Answer any one of the following questions in 120-150 words. 6**

- 1. How did Dr. Sadao help the American prisoner to escape? What precaution did he want the man to take?
- 2. What are the moral issues that the story ‘Should wizard ....’ raises?

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# Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 80

Question No. 1 to 20 carry 1 Mark each.

- Q. 1 Which aspect of management binds all the function of management?  
(a) Efficiency (b) Top level (c) Supervisor (d) Coordination
- Q. 2 Name the function of management which injects life in the organisation?  
(a) Directing (b) Controlling (c) Staffing (d) Planning
- Q. 3 Which principle of fayol can't be applied when organisation is following technique of functional foremanship?  
(a) Unity of Direction (b) Unity of command (c) Order (d) Equity
- Q. 4 When a manager grant one month medical leave to a supervisor with pay and only one week medical leave to accountant, Which principle is voileted here?  
(a) Order (b) Equity (c) Discipline (d) Division of work
- Q. 5 Which of the following does not characterise the business environment??  
(a) Uncertain (b) Employees (c) Relativity (d) Complexity
- Q. 6 Just after the Declaration loksabha Election in 2014, the share market rose by 1400 points? Identify the dimensions of business environment?  
(a) Political (b) Legal (c) Economical (d) Social
- Q. 7 Government of India is seriously thinking to allow oil marketing public sector, understanding to fix their own price for petrol and diesel.? Classify the economic reform as?  
(a) Globalisation (b) Privatisation (c) Liberalisation (d) None of the above
- Q. 8 Gaide to think, is the type of plan?  
(a) Process (b) Method (c) Program (d) Policy
- Q. 9 Type of plan which work as control device from which deviation are taken care of?  
(a) Objective (b) Policy (c) Budget (d) Method
- Q. 10. Organising process does not involves?  
(a) Identification and division of work (b) Departmentalisation  
(c) Specialisation (d) Reporting relationship
- Q. 11. Elements of delegation does not involves?  
(a) Centralisation (b) Responsibility (c) Authority (d) Accountability
- Q. 12. Name the tranning method for a newly appointed employee is acquainted with the organisation?  
(a) Vestibule (b) Apprenticeship (c) Induction (d) Internship
- Q. 13. A formal induction programme must provide following information to the employees?  
A. Brief history of company (b) Suggestions schemes  
(c) Disciplinary procedures (d) Earning more
- Q. 14. Training suitable for iron workers?  
(a) Internship (b) Apprenticeship (c) Vestibule (d) Lecture
- Q. 15. Which of the following is not a importanc of organising?  
(a) Specialisation (b) Role clarity (c) Expansion and growth (d) Scope
- Q. 16. Decision regarding physical distribution does not Involves?  
(a) Order processing (b) Transportation (c) Personal selling (d) Inventory
- Q. 17. Which of the following is not a merit of Sales promotion ?  
(a) Attention value (b) Useful to launch a new product  
(c) Aid to other promotional tools (d) Advertising
- Q. 18. Within what period can the complaint be file in consumer court?  
(a) Within 3 month (b) Six Months (c) One month (d) 15day's
- Q.19. Who can file a complaint?  
(a) Any consumer (b) State government (c) Central government (d) All above
- Q.20. Qualification of state consumer court's president is?  
(a) Advocate (b) Judge of district court (c) Judge of high court D. Judge of supreme court

- Q. 21. "An organisation is a collection of diverse individuals with different needs. " Which characteristics of management are highlighted in this statement? 3
- Q. 22. In one of the principle of scientific management, Taylor emphasis that there should be equal division of work and responsibility between worker's and management and management should work almost side by side with workers helping them. Identify the principle.? And explain? 3
- Q. 23. "Swachha Bharat abhiyaan " Started by government of India is an example of which type of plan? Explain it? 3
- Q. 24. What is meant by span of management? 3

OR

- Out of formal and informal organisation, which is dependent upon which ? 3
- Q. 25. Which act has replaced MRTTP act? Explain it. 3
- Q. 26. Hema is one of the most successful manager of a company, "kaya 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 Hema in a skill full 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 update.
- A. An aspect of the Nature Of management Is being highlighted in the above case, identify the aspects? 1+3=4
- B. Explain any three features of the Aspect identify in part A. 1+3=4
- Q. 27. "It may be difficult to know the extent of the relative impact of the social economic, political, technological or legal factor on change in demand of a product in the market," which features of business environment is highlighted by this point? 4

OR

- Two big banner movies were scheduled to be released on the same date. On the last moment release of one of the movies had to be postponed due to opposition of a group of people due to some unethical contents related to their religion was shown in the that movie. The other movie released on time and made huge profit as there was no competition and movie which was postponed suffered loss.
- A. Which features of business environment is highlighted here? 1+3=4
- Identify the dimensions of business environment, which delayed the release movie.?
- Q. 28 Mr x is the hr manager of Jayhind hospital he Has Apoint nurses for the hospital .since patient in the hospital Are of different types ,he want to find out the candidates maturity and emotions in dealing with patient. he also wants to know About the candidates ability to make decisions .explain Two type of tasts that Mr X can use to meet his requirement.? 4

OR

- Nishant the director of Garments company ,is planning to manufacturer bags for the Utilisation of West material from one of his Garments unit. he has decided that this manufacturer unit will be set up in a rural area of odisha where people have very few jobs opportunities and labor is available every low rate. he has also Thought of giving equal opportunity to man and woman. for this he wants four different heads for sales, accounts, purchase and production .he gives an Advertisement and short list the ten candidates per post after conducting different selection taste. identify and states the next three steps for choosing the best candidate Out of the candidates out of the shortlisted.? 1+3=4
- Q. 29 Karan open a retail Mart In local market .as he knows it will be impossible for Him to handle all work alone,he Apoints Joher to perform Tasks on his behalf there by Reducing the workload. this decision Provided Karan with more time to concentrate on important matters .besides he recruited Eight other person's As supports Staff. over the year his business Earned good name for itself. so he opens another Outlet in the city. considering Johar competence, he gives independent charge Of running the new outlet to him, there by EmpoWering him autonomy in functioning of the outlet.
- A. identify the Two concept which reflects the role of johar in above case.
- B. Give four points of differences between both the concept . 1+4=5

OR

Sita and Gita are twin sisters. After completing course in journalism both of them join in Leading Newspaper company as subeditors. Over the years, due to their hard work they are promoted to the post of chief editor in different divisions. However, the way of their functioning is totally different. Sita believes in capabilities of her subordinates. Therefore, follow policy of selective dispersal of authority in all levels of other division.

On the other hand, Gita prefers to function through strict control and retains all the decisions making authority with herself.

A. In the above context, state the concept used by Sita and Gita.

B. State any three differences between both the concepts? 2+3=5

Q. 30 Ms. Jayshree recently completed her Postgraduate diploma in HRM. A few months from now a large steel manufacturing company appointed her as its HR manager. As of now company employ 800 persons also and has expansion plan in hand which may require another 200 persons, for various types of additional requirement. Ms. Jayshree has been given a complete charge of the company's HR Department.

A. Point out, what function does she supposed to perform?

B. What problem do you foresee in her job?

C. What steps is she going to take to perform all her job efficiently?

D. How significant is her role in the organisation? 1+1+1+2=5

Q. 31 "blindly following the goal of customer satisfaction has led too many social and environmental ills". Do you agree? What should be done? Explain? 5

OR

"Bending the customer according to the product and developing the product according to the customer needs" are the two important concepts of marketing management. Identify the concept and differentiate between the two. 1+4

Q. 32 Radha found a worm crawling out of newly open Tetra pack of juice manufacturer by a reputed company, Z Limited. She went back to the shopkeeper from whom the pack was purchased who directed her to call up the customer care center. When all her efforts failed, she went to a customer activists group to seek help. The group decided to help Radha and take measures to impose restrictions on the sale of the firm's products of the particular batch and urge customer to refrain from buying the product of the company. Z Limited lost its image in the market. The CEO gives responsibility of bringing back the lost image of the company to a manager.

A. Identify the concept of marketing management which helped the manager getting the firm out of the about crisis?

B. Also explain the role of above identify concept by stating any five points?

OR

Ram, Shayam, Joti, Shrya, Iqbal are friends. They are operating different businesses. Each one has his/her own concept regarding operating their business. Ram believes producing products at large scale. Thereby decreasing the average cost of the product and selling it at reasonable price. Shayam focuses on providing best quality product because he believes that a customer always wishes to buy a good quality product. The price of product is secondary, Joti is of the belief that most important aspects of business is sales and so he undertakes aggressive selling and promotional efforts. Iqbal believes that his firm can achieve its goal only by identifying the need of the customer and satisfying them better than competitors. Shrya on the other hand feels that her firm has a responsibility towards the society as well. So she provides customer service satisfaction along with using techniques which are environmental friendly. 2½ + 2½ = 5

A. What are the marketing concepts followed by each of them?

B. Ram's concept is successful for him because he is into manufacturing and selling iodised salt under the "Brand Healthy salt", this product has a ready market in vast consumer base, also the product are standardised so he can focus on production at a large to cut down the cost per unit. Write any business which can be successfully run by the others using their concept?



Q. 33 After completing studies in product designing ,Sarita wishes to start own business to design Product to cater to the mobility and communication requirement of persons with special needs .she told her friend that she wanted to focus on Supply hi quality Products at affordable Prices. The unique selling Proposition of the Products would be Sensitivity to The challenges and Need of the differently Abled people. she wants to employ Only differently able person in her Factory and sells offices across the country .this decision of Sarita provide the base for interpreting her strategy. this also defiance the broad parameters within which the company May recruit the Persons. Sarita has also to decide about The exact Manner and the Chronological order of how the election of the differently applications will be done .in the Above lines ,Sarita is discussing about one of the function of management. this function Has several types .Identify and explain the types Sarita Is discussing in the above lines. 3+3=6

OR

Rajeev, the owner of pathways Construction decided to start a campaign to create Awareness among people for developing clean surrounding in the area. he formed a team of the 10 members to list the different ways for cleaning the surrounding .one suggested to take the help of local resident, Another suggested that they may involve school going Children in their venture . one more suggestions was to take the Help of unemployed youth. an evaluation of different ways It was decided to take the help of local Residents. to achieve the desirable Goal various activities were identify like.-

A.purchase of necessary items like Dustbins, garbage bags, Brooms etc.

B. Collection of garbage.

Disposal of garbage, etc.

after identification all different activities the work was allotted to Different members.

1. identify the concept of management involved in the above situation and Quote the lines which Help in their identification.

2. also identify the values which the company wants to communicate to the Society.? 3+3=6

Q. 34. Explain the differences between Taylor and fayols principles.? 6

OR

Explain the relevance of Taylor and fayols principles.? 6

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**Half Yearly Examination 2019 – 2020****Time: 3:00 Hrs.****M. M. 70****General Instructions :**

- All questions are compulsory.
- There are 37 questions in all.
- Section – A Question 1 to 20 multiple choice type each contain one marks only, Section – B Question 21 to 27 contain 2 marks only, Section – C Question 28 to 34 contain 3 marks only and Section – D Question 35 to 37 contain 5 marks only.
- There is no overall choice. However an internal choice has been provided in three questions of two marks, three questions of three marks and all three questions of five marks weightage. You have to attempt only one of the choices in such questions.

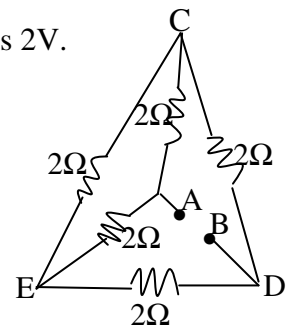
**SECTION – A**

- Q.1 Two charges of equal magnitude and at a distance  $r$  exert a force  $F$  on each other. If the charges are halved and distance between them is double, then the new force acting on each charge is –  
(a)  $F/8$  (b)  $F/4$  (c)  $4F$  (d)  $F/16$
- Q.2 A conducting sphere of radius  $R$  is given a charge  $Q$ . The electric potential and Electric field at the centre of sphere respectively are –  
(a)  $\frac{KQ}{R}$  and  $\frac{KQ}{R^2}$  (b)  $\frac{KQ}{R}$  and Zero (c) Both Zero (d) Zero and  $\frac{KQ}{R^2}$
- Q.3 A 25W – 220V bulb and a 100W – 220V bulb are joined in series and connected to the mains. Which bulb will glow brighter –  
(a) 25W (b) 100W  
(c) Both will glow with same brightness (d) First 25W then 100W
- Q.4 A wire of resistance 12 ohm per meter is bent to form a complete circle of radius 10 cm. The resistance between its two diametrically opposite points A and B as –  
(a) 3 ohm (b)  $6\pi$  ohm (c) 6 ohm (d)  $0.6\pi$  ohm
- Q.5 For the magnetic field to be maximum due to a small element of current carrying conductor at a point, the angle between the element and the line joining the element to the given point must be –  
(a)  $0^\circ$  (b)  $90^\circ$  (c)  $45^\circ$  (d)  $180^\circ$
- Q.6 A magnetic needle is kept in a non-uniform magnetic field. It experiences -  
(a) a Torque but not a Force (b) neither a force nor a torque  
(c) a force and a torque (d) a force but not a torque
- Q.7 A magnetic flux linked with the coil varies with time  $\Phi = 3t^2 + 4t + 9$ . The magnitude of induce emf at  $t = 2$  Sec is -  
(a) 9V (b) 16V (c) -16V (d) 4V
- Q.8 The unit of  $\frac{L}{R}$  ( $L$  = inductance and  $R$  = resistance) is -  
(a) Sec. (b)  $\text{Sec}^{-1}$  (c) Volt (d) Ampere
- Q.9 A source emits sound of frequency 600Hz inside water. The frequency heard in air (velocity of sound in water = 1500 m/s, velocity of sound in air =  $3 \times 10^8$  m/s) will be  
(a) 300Hz (b) 120Hz (c) 600Hz (d) 6000Hz
- Q.10 In Young's Double Slit Experiment, the separation between the slits is halved and distance between the slits and screen is double. The fringe width is -  
(a) Unchanged (b) Halved (c) Doubled (d) Quadrupled
- Q.11 who discover the charge on an electron for the first time -  
(a) Millikan (b) Thomson (c) Kelvin (d) Coulomb

- Q.12 Photoelectric effect can be explained by –  
 (a) Corpuscular theory of light (b) Wave nature of light  
 (c) Bohr's theory (d) Plank quantum theory of light
- Q.13 Two waves are said to be coherent, if they have -  
 (a) Same phase and different amplitude (b) Different frequency, phase and amplitude  
 (c) Same frequency but amplitude (d) Same frequency, phase and amplitude
- Q.14 An inductor may store energy in –  
 (a) its electric field (b) its coils  
 (c) its magnetic field (d) Both in electric and magnetic fields
- Q.15 The universal property among all substance is -  
 (a) Diamagnetism (b) Para magnetism (c) Ferromagnetism (d) Non – magnetism
- Q.16 If number of turns, area and current through a coil are given by  $n$ ,  $A$  and  $I$  respectively, then its magnetic moment is given by -  
 (a)  $nIA$  (b)  $n^2IA$  (c)  $nIA^2$  (d)  $nI/\sqrt{A}$
- Q.17 The conducting wire is marked with three colour strips red, red and orange. The value of its resistance is -  
 (a) 22 ohm (b) 2200 ohm (c) 22000 ohm (d) 220 ohm
- Q.18 If percentage change in current through a resistor is 1% then the change in power through it would be -  
 (a) 1% (b) 2% (c) 1.7% (d) 0.5%
- Q.19 an electric charge  $q$  is placed at one of the corner of a cube of side  $a$ . the electric flux on one of its face will be -  
 (a)  $q/a\epsilon_0$  (b)  $q/6\epsilon_0$  (c)  $q/8\epsilon_0$  (d)  $q/24\epsilon_0$
- Q.20 The work done in carrying a charge  $Q$  once round a circle of radius  $r$  with charge  $q$  at the centre of circle is –  
 (a)  $\frac{kQ}{r}$  (b)  $\frac{kQq}{r}$  (c) Zero (d)  $\frac{Qq}{2r}$

### SECTION – B

- Q.21 Draw 3 equipotential surfaces corresponding to a field that uniformly increases in magnitude but remains constant along  $z$  - direction. How are these surfaces different from that of a constant electric field along  $z$  - direction?
- Q.22 Each of the resistance in the network shown in fig. is 2 Ohm and applied potential is 2V. Calculate equivalent resistance and current?



- Q.23 The storage battery of a car has an emf of 12V. If the internal resistance of the battery is 0.4 ohm, what is the maximum current that can be drawn from the battery?

OR

Six lead – acid type of secondary cells each of emf 2V and internal resistance 0.015 ohm are joined in series to provide a supply to a resistance of 8.5ohm. what are the current drawn from the supply and its terminal voltage?

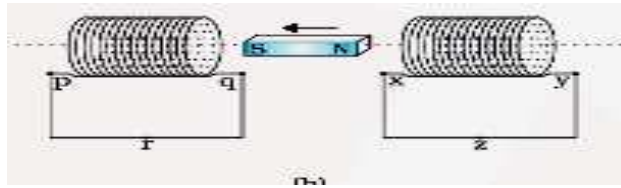
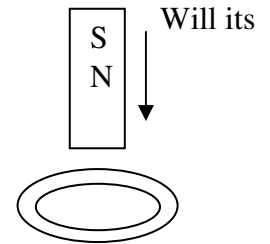
- Q.24 A long wire is bent into a circular coil one turn and then into a circular coil of smaller radius having  $n$  turns. If the same current is passes in both the cases, find the ratio of the magnetic fields produce at the centre in the two cases?

- Q.25 A bar magnet falls from height  $h$  through a metal ring as shown in figure. acceleration be equal to  $g$ . Give reason for your answer?

OR

predict the direction of induce current in resistance  $R$  in figure.

Give reason for your answer?



- Q.26 Derive the laws of reflection of light on the basis of Huygen's wave theory of light?

OR

Draw a labeled ray diagram of an astronomical telescope. An astronomical telescope uses two lenses of power 10 diopter, 1 diopter. Which lens is preferred as objective and eye piece?

- Q.27 A proton and an alpha particle are accelerated through the same potential. Which one of the two has greater value of de –Broglie wave length associated with it?

### SECTION – C

- Q.28 Derive an expression for the electric potential at any generated point at distance  $r$  from the centre of a dipole?

OR

A slab of material of dielectric constant  $K$  has the same area as the plates of a parallel plate capacitor but has a thickness  $\frac{3d}{4}$ , where  $d$  is the separation of the plates. How is the capacitance changed when the slab is inserted between the plates?

- Q.29 The resistance of the platinum wire of a platinum resistance thermometer at the ice point is 5 ohm and at steam point is 5.39 ohm. When the thermometer is inserted in hot bath, the resistance of the platinum wire is 5.975 ohm. Calculate the temperature of the bath?

- Q.30 Apply Biot – Savart law to find the magnetic field due to a circular current carrying loop at a point on the axis of the loop.

OR

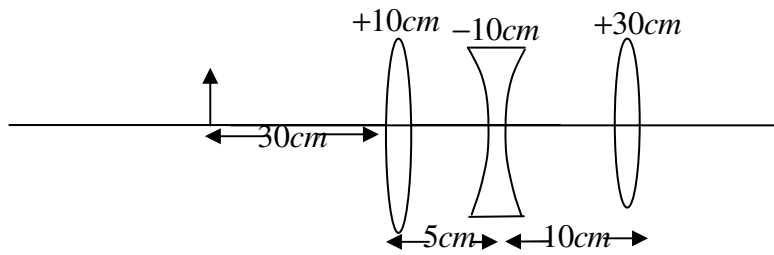
What is cyclotron? Write principle, construction and working of a cyclotron?

- Q.31 Explain the phenomenon of hysteresis in magnetic material with suitable  $B - H$  curve?

- Q.32 A metallic rod of length  $l$  is rotated at an angular speed  $\omega$  normal to a uniform magnetic field  $B$ . Derive expression for the

- (i) emf induced in rod
- (ii) Current induced
- (iii) Power required to rotate the rod?

Q.33 Find the position of the image formed by the lens combination given in figure.



Q.34 Explain the effect of (i) Intensity of light on photoelectric current (ii) potential on photoelectric current?

OR

Explain why photoelectric effect can't be explain on the basis of wave nature of light?

#### SECTION – D

Q.35 Obtain the formula for the electric field due to a long thin wire of uniform linear charge density  $\lambda$  without using gauss law?

OR

State gauss law in electrostatics? Use this law to show that electric flux does not depend on size and shape of the body?

Q.36 An alternating emf is applied to a series combination of a resistor, a capacitor and a inductor, use phasor diagram to derive an expression for Impedance and find angle between emf and current?

OR

What do you meant by mutual induction? Derive an expression for mutual inductance of two long coaxial solenoid?

Q.37 Derive the Lens Maker's relation for a Double Convex Lens?

OR

Derive an expression for the intensity at any point on the observation screen in Young's double slit experiment. Hence write the conditions for constructive and destructive interference?

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Roll. No.

Code No. 12/Biology/NLCS/15

## Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 70

### Section – A

SECTION – A [ 20 Questions each One Mark. ]

- Q.1 What causes speciation according to Hugo de Vries?
- Q.2 Why hn RNA is required to undergo splicing?
- Q.3 Name the world most problematic weed what is the nature of the water bodies in which weeds grow?
- Q.4 What is the major difference you observe in the offsprings produced by asexual reproduction and in the progeny produced by sexual reproduction?
- Q.5 Name the technique used for separating DNA fragments in the lab.
- Q.6 Write the name of four external Genitalia (volla) of female.
- Q.7 The flower of brinjal is chasmogamous while bean is cleistogamous. How are they different from each other?
- Q.8 A woman with blood group O married a man with AB group. Show the possible blood groups of the progeny.
- Q.9 Mention the function of promoter gene in transcription.
- Q.10 What is difference between male heterogamety and female heterogamety?
- Q.11 Explain the two ways by which seeds develop without Fertilization.
- Q.12 State the chromosomal defect in individual with turner's syndrome.
- Q.13 How does degradation of ozone effect human health?
- Q.14 Banana fruit is said to Parthenocarpic whereas turkey is said to be parthenogenesis why?
- Q.15 What is ESP and write its main function?
- Q.16 Mention how do bears escape from stressful time in winter.
- Q.17 Which one out of Rho factor and sigma factor act as initiation factor during transcription in a prokaryote?
- Q.18 Write the function and type of RNA.
- Q.19 Name the first human like hominid? What was its brain capacity.
- Q.20 State the causes of Eutrophication.

### Section – B

SECTION – B [ 7 Questions each Two Marks. ]

- Q.21 A mother of one year old daughter wanted to space her second child. Her doctor suggested Cu-T. Explain its contraception actions.

Q.22 Name the interaction in each of the following :

- (i) Cuckoo lays her eggs in the crow's nest
- (ii) Orchid grow on a mango tree
- (iii) Ticks live on the skin of dogs
- (iv) Sea anemone is often found on the shell of hermit crab.

**OR**

Explain accelerated Eutrophication Mention any two consequences of this phenomenon.

Q.23 Is sweet potato analogous or homologous to potato? Give reasons to support your answer.

Q.24 What are the main steps of decomposition write their name and describe it in short?

Q.25 Why is charging of RNA necessary for translation?

**OR**

Write about the ancestry and Evolution of bat, horse and human on the basis of a comparative study of their forelimbs. What are these for limbs categorized as?

Q.26 A childless couple has agreed for a test tube baby programme. List only the basis steps the procedure would involve to conceive the baby.

Q.27 Why is haemophilia not seen commonly in human females? Mention a clinical symptoms for the disease.

**OR**

What is linkage and recombination?

### **Section – C**

SECTION – C [ 7 Questions each Three Marks. ]

Q.28 Mention the target cells of Luteinising hormone in human males and females. Explain the effect and the changes which the hormone induces in each case.

Q.29 During his studies on genes in *Drosophila* that were sex linked. T.H. Morgan found  $F_2$  population phenotypic ratios deviated from expected 9 : 3 : 3 :1. Explain the conclusion he arrived at.

Q.30 Draw a labelled diagram of sectional view of a human ovary showing various stages of follicles growing in it.

**OR**

How are assisted reproductive technologies helpful to humans? How are ZIFT and GIFT different from intra uterine transfers? Explain.

Q.31 (i) Differentiate between template strand and coding strand of DNA.

(ii) Name the source of energy for the replication of DNA.

Q.32 Explain brood parasitism with the help of an example.

Q.33 Explain and draw diagram of Lac operon.

**OR**

Recently a baby girl suffer from haemophilia. How is it possible. Explain with the help of a cross.

Q.34 How do Darwin's finches illustrate adaptive radiation?

**OR**

In maternity clinic they are not able to handover two new borns to real parents. Name and describe the technique that you suggest to sort out the matter.

**Section – D**

SECTION – D [ 3 Questions each Five Marks. ]

Q.35 Explain transcription process of Eukaryotes.

**OR**

Explain DNA finger print.

Q.36 A tall pea plant with yellow seeds (heterozygous for both the traits) is crossed with a dwarf pea plant with green seeds. Using a punnett square workout the cross to show the phenotypes and the genotypes of F<sub>2</sub> generation.

**OR**

(i) Why is DNA molecule a more stable genetic material than RNA? Explain.

(ii) "Unambiguous", "degenerate" and "universal" are some of the salient features of genetic code. Explain.

Q.37 Define biomagnifications. How does the biomagnifications of DDT affect the population of fish eating birds.

**OR**

How is detritus decomposed step by step by different agents and made available as nutrients to the plants? Explain.

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Roll. No.

Code No. 12/Chemistry/NLCS/30

## Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 70

### General Instructions :

- (i) Question No. 1 to 20 carry One Mark each.
- (ii) Question No. 21 to 27 carry Two Marks each.
- (iii) Question No. 28 to 34 carry Three Marks each.
- (iv) Question No. 35 to 37 carry Five Marks each.

### Section – A

- Q.1 Identify the solute & solvent in Sodium amalgam.
- Q.2 People taking lot of salt is suffering from ----- .
- Q.3 Cu in nitric acid is oxidised by ----- .
- Q.4 The concentration of a solution at infinite dilution is known as ----- .
- Q.5 The order of all radioactive reaction is ----- .
- Q.6 The ----- order reaction in which the half life is independent of initial concentration.
- Q.7 ----- is the example of gem-dihalide.
- Q.8 Group possess two nucleophilic centres like cyanide ore called ----- .
- Q.9 For a chemical reaction with rise in temperature by  $10^\circ$ , the rate constant is ----- .
- Q.10 The rate of the reaction is controlled by ----- step called rate determining step.
- Q.11 The formation of micelles takes place only above a particular concentration called ----- .
- Q.12 The electrolyte used for converting precipitate two colloidal solution ----- .
- Q.13 ----- are used to separate two sulphide ore.
- Q.14 Copper matte contains ----- & ----- .
- Q.15  $\text{PH}_3$  has lower boiling point than  $\text{NH}_3$  because of ----- .
- Q.16 ----- is used in Holme's signals.
- Q.17 The oxidation number of Cobalt in  $\text{K}[\text{CO}(\text{NH}_3)_4]$  is ----- .
- Q.18  $\text{K}_3[\text{Fe}(\text{CN})_6]$  IUPAC name is –
- (i) Tripotassium hexacyanoferrate (III)
  - (ii) Potassium Hexacyanoferrate (III)
- Q.19 Which has highest Magnetic moment –
- (i)  $\text{Cr}(\text{H}_2\text{O})_6^{3+}$
  - (ii)  $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$
  - (iii)  $[\text{Zn}(\text{H}_2\text{O})_6]^{2+}$
- Q.20 Write formula of Potassium tetracyanonickelate (II) –
- (i)  $\text{K}[\text{Ni}(\text{CN})_4]$
  - (ii)  $\text{K}_2[\text{Ni}(\text{CN})_4]$
  - (iii)  $\text{K}_3[\text{Ni}(\text{CN})_4]$
- Q.21 Boiling point of water at 750 mm Hg is  $99.63^\circ\text{C}$ . How much sucrose is to be added to 500g of water such that it boils at  $100^\circ\text{C}$ .
- Q.22  $\Delta^\circ$  for NaCl, HCl & NaAc are 126.4, 425.9 &  $91.0\text{cm}^2\text{mol}^{-1}$  respectively. Calculate  $\Delta^\circ$  for HAC.
- Q.23 Show that in a first order reaction, time required for completion of 99.9% is 10 times of half life of the reaction.
- Q.24 Define activity & selectivity of catalyst.
- OR
- Explain the mechanism of adsorption.
- Q.25 Explain 'Mond process' & 'Van Arkel method'.
- OR
- Explain 'leaching of alumina from Bauxite'.
- Q.26 Complete the reactions : (i)  $\text{I}^- + \text{MnO}_4^- + \text{H}^+ \rightarrow$  (ii)  $\text{XeF}_4 + \text{H}_2\text{O} \rightarrow$  (iii)  $\text{MnO}_4^- + \text{S}_2\text{O}_3^{2-} + \text{H}_2\text{O} \rightarrow$
- OR
- Draw the structure of – (i) Chromate ion (ii) Permanganate ion
- Q.27 Write Sandmeyer's reaction Finkelstein.
- Q.28 For a reaction the energy of activation is zero. What is the value of rate constant at 300K. If  $K=1.6 \times 10^6\text{S}^{-1}$  at 280K ?

Q.29 Convert – (i) Toluene to benzyl alcohol (ii) Propene to propyne

OR

- Give reason : (i) Benzyl Chloride is lightly reactive towards SN1 reaction.  
(ii) 2 – bromobutane is optically active but 1- bromobutane is optically inactive  
(iii) Electrophilic reaction in haloarenes occur slowly

Q.30 Define : (i) Brownian movement (ii) Peptization (iii) Multimolecular colloids

- Q.31 (i) Write the principle of method used for the refining of germanium.  
(ii) Out of Pbs & PbCO<sub>3</sub>, which one is concentrated by froth flotation process.  
(iii) Describe the role of NaCN in the extraction of gold from gold ore.

- Q.32 Give reason : (i) SCl<sub>6</sub> is not known but SF<sub>6</sub> is known.  
(ii) ClF<sub>3</sub> exists but FCl<sub>3</sub> does not. Explain.  
(iii) Ozone is thermodynamically unstable.

OR

- (i) H<sub>2</sub>S is acidic than H<sub>2</sub>Te.  
(ii) Fluorine is stronger oxidizing agent than Cl.  
(iii) Noble gases are least reactive element

Q.33 Give reason :

- (i) The Mn<sup>+2</sup> compounds are more stable than Fe<sup>2+</sup> towards oxidation to their +3 state  
(ii) SC<sup>+3</sup> is colourless in aqueous solution whereas Ti<sup>+3</sup> is coloured.  
(iii) The highest oxidation state is exhibited in oxo-anions of a metal.

Q.34 Write name, structure & magnetic behaviour of each :

- (i) [Pt(Mn<sub>3</sub>)<sub>2</sub>Cl(NO<sub>2</sub>)] (ii) [Ni(CO)<sub>4</sub>]

OR

Explain with examples : (i) Coordination entity (ii) Ligand (iii) Coordination No.

- Q.35 (i) Define : (a) Molarity (b) Molal elevation constant  
(ii) A solution containing 15g. urea per litre of solution in later has the same osmotic pressure on a solution of glucose in water. Calculate the mass of glucose present in 1 litre of its solution.

OR

Non-Ideal solution exhibit either positive or negative deviation from Raoult law. What are these deviation & how are they caused?

What mass of NaCl must be dissolved in 65g of water to lower the freezing point by 7.5°C? The freezing point depression constant for water is 1.86K kg mol<sup>-1</sup>. Assume Van't Hoff factor for NaCl is 1.87.

- Q.36 (i) Write the name of the cell which is generally used in hearing aids. Write the reaction at anode & cathode.  
(ii) Conductivity of 0.00241M acetic acid is 7.896×10<sup>-5</sup> cm<sup>-1</sup>. Calculate its molar conductivity in this solution. If  $\wedge^{\circ} m$  for CH<sub>3</sub>COOH is 390.5 scm<sup>2</sup> mol<sup>-1</sup>, what would be its dissociation constant?

OR

(i) Calculate  $\epsilon^{\circ}$  cell for the following at 298K 2Al(s)+3Cu<sup>2+</sup> (0.01M)→2Al<sup>+3</sup>(0.01M)+3Cu(s). Given E cell=1.98V.

(ii) Using  $\epsilon^{\circ}$  values of A & B, predict which is better for coating the surface of iron [ $\epsilon^{\circ}$  Fe<sup>2+</sup>/Fe= - 0.44V ] to prevent corrosion & why? Give  $\epsilon^{\circ}$  A<sup>2+</sup>/A= -2.37V,  $\epsilon^{\circ}$  B<sup>2+</sup>/B= -0.14V.

- Q.37 Give reason : (i) Cl<sub>2</sub> act as a bleaching agent  
(ii) Noble gases have very low boiling point  
(iii) What happens when fluorine react with water  
(iv) Draw the structure of – (a) H<sub>4</sub>P<sub>2</sub>O<sub>7</sub> (ii) XeOF<sub>4</sub>

OR

- Explain : (i) Oxygen is a gas but sulphur a solid. (ii) Halogens are coloured.  
(iii) Despite having greater polarity, HF boils at a lower temperature than water.  
(iv) Complete reaction : (a) XeF<sub>4</sub>+SbF<sub>5</sub> → (b) Cl<sub>2</sub> + F<sub>2</sub> (excess) →

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Roll. No.

Code No. 12/Physical Ed./NLCS/65

## Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 70

Very short Answer Questions carry 1 Mark (20 to 30 words).

- Q.1 What are the consolation Tournaments?  
Q.2 What do you mean by seeding?  
Q.3 Explain the procedure for giving 'bye'.

**OR**

What are specific Sports Programmes?

- Q.4 Define Balanced Diet.  
Q.5 What do you mean by healthy weight?  
Q.6 What do you mean by food myths?

**OR**

What do you mean Food supplements?

- Q.7 What do you mean by Hypertension.  
Q.8 What do you mean by Asana?  
Q.9 What do you mean by Diabetes?  
Q.10 What is intellectual disability?  
Q.11 What do you mean by O.C.D.?  
Q.12 What do you mean by disability etiquettes?

**OR**

Define Disorder.

- Q.13 What do you mean by gross motor development?  
Q.14 What do you mean by weight training?  
Q.15 What do you mean by correct posture?  
Q.16 What is osteoporosis?  
Q.17 What is menstrual dysfunction?  
Q.18 What do you mean by Female Athlete Triads?  
Q.19 What do you mean by muscular strength?  
Q.20 Which test would you suggest for your grandmother to test lower body flexibility?

**OR**

What test would you suggest to measure upper body strength for Aged population?

**Short Answer Questions carrying 3 Marks (80 to 90 words).**

- Q.21 What is the importance of Tournament? Discuss any three points.
- Q.22 Explain any three objectives of Intramurals.
- Q.23 What do you mean by Nutritive and Non Nutritive components of Diet?
- Q.24 Discuss any three pitfalls of Dieting.
- Q.25 What is obesity? How can we come to know that we are obese?

**OR**

Explain about 'Asthma'.

- Q.26 Explain any three causes of disability.
- Q.27 Discuss about A.D.H.D.
- Q.28 Discuss about Advantages and Disadvantages of weight training.

**OR**

Explain any three factors affecting motor development.

- Q.29 Discuss any three psychological traits of Women Athlete.
- Q.30 Explain the Kraus Weber tests.

**OR**

What do you mean by 'AAHPER' Fitness test. Explain Administration of any three items of this test.

**Long Answer Questions carrying 5 Marks (150 to 200 words).**

- Q.31 What do you mean by knock-out tournament? Draw the fixture of 21 teams on knock-out.
- Q.32 What do you mean by 'Macro and Micro' nutrients. Explain about it.

**OR**

Discuss Asanas as preventive measures in details.

- Q.33 What do you mean by disability? Discuss the types of disability.
- Q.34 Explain any five common postural deformities.

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Roll. No.

Code No. 12/Economics/NLCS/68

## Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 80

General Instruction

- 1-All question in both sections are compulsory
- 2-Marks for questions are indicated against each marks
- 3-Answers should be brief and to the point .

### SECTION A-MACRO ECONOMICS

- Q.1 Credit creation by commercial banks is determined by- 1  
(a) CRR (b) SLR (c) Initial deposit (d) All the above
- Q.2 Which of the following affects N.I ? 1  
(a) GST (b) Corporation tax (c) Subsidies (d) None of the above
- Q.3 The central banks can increase availability of credit by 1  
(a) Raising repo rate (b) Raising reserve repo rate (c) Buying government securities  
(d) Selling government securities
- Q.4 ..... is the main source of money supply in an economy 1  
(a) Central bank (b) Commercial banks (c) Both (a) and (b) (d) Government
- Q.5 Primary deficit is borrowing requirements of the government for making ..... 1  
(a) Interest payment (b) Other than interest payment (c) All types of payments  
(d) Some specific payment
- Q.6 Disinvestment by government means 1  
(a) Selling of its building (b) Sale of its fixed capital assets  
(c) Sale of shares of public enterprises held by (d) None of above
- Q.7 Subsidy by the government is included in 1  
(a) Revenue expenditure (b) Capital expenditure (c) Revenue receipts (d) Capital receipts
- Q.8 Example of non-debt capital receipts is 1  
(a) Borrowings (b) Extension of borrowings (c) Recovery of loan (d) All of them
- Q.9 Currency is also known as 1  
(a) Fiat money (b) Paper money (c) Bank money (d) Fiduciary money
- Q.10 Money supply is ..... concept 1  
(a) Stock (b) Flow

OR

Central bank influence the economic stability of country through its credit control tools

- (a) true (b) false

- Q11 Which of the following are final goods and which are intermediate goods? give reasons 3  
(a) Milk purchased by tea stall (b) Bus purchased by a school  
(c) Juice purchased by a student from school canteen

OR

Given nominal income how can we find real income? Explain (take imaginary data)

- Q.12 Explain the role of margin requirements in dealing with the problem of excess money supply. 3
- Q.13 Explain the basis of classifying govt receipts into revenue receipts and capital receipts. Which type of these receipts are borrowing by govt and why ? 4
- Q.14 Giving reason, Explain how should the following be treated in estimation of National income 4  
(a) Interest paid by banks on deposits by individual  
(b) National debt interest

OR

How will you treat the following while calculating domestic product of India? Give reason for your answer

- (a) Profits earned by a foreign company in India  
 (b) Salary of India residents working in Russian embassy in India

Q.15 Explain any two tools of credit control used by Central Bank.

4

Q.16 Calculate – GDP at MP and Factor income from abroad

ITEMS	RS (in Crores)
(i)Profit	500
(ii)Export	40
(iii)Compensation of Employees	1500
(iv)GNP at FC	2800
(v)Net Current transfer from rest of world	90
(vi)Rent	300
(vii)Interest	400
(viii)Net domestic capital formation	650
(ix)Net indirect taxes	250
(x)Gross Fixed Capital Formation	700
(xi)Change in stock	50
(xii)Factor Income to abroad	120

Q. 17 (a) Define Real Gross Domestic Product

2

(b)Calculate GNP at MP by (i) Expenditure method and (ii) income method

4

Items	RS in crores
(i)compensation of employee	100
(ii)Private final consumption expenditure	200
(iii)Rent	20
(iv)Govt. final consumption expenditure	50
(v)Profit	10
(vi)Interest	10
(vii)Gross domestic capital formation	60
(viii)Net import	10
(ix)Consumption of fixed capital	20
(x)Net indirect taxes	30
(xi)Net Factor income From Abroad	(-)20
(xii)Change in stocks	10
(xiii)Mixed income	110

OR

What is meant by Double Counting? How this problem can be avoided?

6

### SECTION B –INDIAN ECONOMIC DEVELOPMENT

Q.18 Poverty has many face and looked through various social Indicator .consider the following statement in this regard.

1

- (1) Social exclusion describes the greater probability of being more adversely affected than other people.  
 (2) Vulnerability is a process through which individual or groups are not able to access facility, benefits and opportunity that enjoy.

Which of the statement given above is/are correct?

- (a) only 1                      (b)only 2                      (c)both 1 and 2                      (d)None of these

- Q.19 India is a planned sociality society with a strong public sector but also with private property and democracy. What were the goals of five year plans in the year after India's Independence? 1  
 (a) Growth (b) Modernisation (c) Equity (d) Self-Reliance (e) All of them
- Q.20 Which sector of the Indian economy contributes maximum to the G.D.P? 1  
 (a) Primary (b) Manufacturing (c) Secondary (d) Teritiary sector
- Q.21 Who is the chairman of planning commission? 1  
 (a) Prime minister (b) Finance minister (c) Minister of planning (d) Secretary of planning
- Q. 22 Mahalanobis model was started in which plan? 1  
 (a) First plan (b) Third plan (c) Second plan (d) Tenth plan
- Q.23 ..... Is the apex bank for agriculture credit in India , 1  
 (a) RBI (b) SIDBI (c) NABARD (d) ICICI
- Q.24 Capital goods industries means 1  
 (a) Machinery , machine tools etc. (b) Iron & steel , cement etc.  
 (c) Chemical , rubber, plastic etc. (d) Watches, perfumes etc.
- Q.25 After independence in order to stop exploitation of actual tillers of the land reforms was introduced for which ..... measure were undertaken? 1  
 (a) Abolition of intermediaries (b) Tenancy reforms  
 (c) Reorganisation of agriculture (d) All of them
- Q.26 Which of the following is an educational organisation. 1  
 (a) NCERT (b) AICTE (c) UGE (d) All of the above
- Q.27 The NSSO stands for 1  
 (a) National small scale office. (b) National sample survey organisation.  
 (c) National security survey office. (d) National saving scales office.
- Q.28 What was the two fold motive behind the British in pre independent India? 3
- Q.29 Discuss the position impact of policies formulated for industrial development ? 3

OR

Brief explain the trade policy adopted by govt. after independence.

Q.30 Explain the role of non -farm employment in promoting rural diversification. 4

Q.31 What is organic farming? and how does it promote sustainable development? 4

OR

Identify the benefit and limitation of organic farming

Q.32 Explain how in education stimulates economic growth. 4

Q.33 Explain the three dimensions govt. approach to poverty reduction in detail. 6

Q.34 Why India opt for new economic policy. Explain the stabilisation and the structural measures. 6

OR

Explain L.P.G in detail

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# Half Yearly Examination 2019 – 2020

**Time: 3:00 Hrs.****M. M. 70**

- Q.1 (a) Differentiate between Syntax error and run-time error. Also, write a suitable example in python to illustrate both. 2
- (b) Name the python Library module which need to be imported to invoke following functions: 1
- (i) log() (ii) geturl()
- (c) Observe the following python code and rewrite it after removing all syntactical errors with each line correction underlined. 2
- (i) 

```
Num=int(rawinput("number:"))
Sum=0
for i in range(10,Num,3)
    Sum+=i
    if i%2=0:
        print(i*2)
    Else:
        print(i*3 print sum)
```
- (ii) 

```
DEF execmain():
    x=input("enter a number:")
    if(abs(x)=x):
        print"you entered a positive number"
    else:
        x=-1
        print"number made positive:"x
execmain()
```
- (d) Find the output of following python code: 3
- (i) 

```
L=["x", 20, "y", 10, "z", 30]
CNT = 0
ST = ""
INC = 0
for C in range(1,6,2):
    CNT = CNT+C
    ST = ST+ L[C-1]+"@"
    INC = INC + L[C]
    print( CNT, INC, ST)
```
- (ii) 

```
Msg1="WeLcOME"
Msg2="GUeSTs"
Msg3=""
for l in range (0,len(Msg2)+1):
    if Msg1[l]>="A" and Msg1[l]<="M":
        Msg3=Msg3+Msg1[l]
    elif Msg1[l]>="N" and Msg1[l]<="Z":
        Msg3=Msg3+Msg2[l]
    else:
        Msg3=Msg3+"*"
print(Msg3)
```
- 3



(iii) def changer(p, q=10):

```
    p= p/q
    q=p%q
    print(p,"#",q)
    return p
a=200
b=20
a=changer(a,b)
print(a,"$",b)
b=changer(b)
print(a,"$",b)
a=changer(a)
print(a,"$",b)
```

3

(e) What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the minimum values that can be assigned to each of the variables begin and last, and write maximum and minimum values for variable y.

(i) import random

```
values=[10,20,30,40,50,60,70,80]
begin=random.randint(1,3)
last=random.randint(begin,4)
for l in range(begin,last+1):
    print(values[l],"-")
```

(i) 30-40-50-

(ii) 10-20-30-40-

(iii) 30-40-50-60-

(iv) 30-40-50-60-70-

3

(ii) import random

```
x=random.random()
y=random.randint(0,4)
print(int(x),":",y+int(x))
```

(i) 0:0

(ii) 1:6

(iii) 2:4

(iv) 0:3

3

- Q.2. (a) How many values may a function return in python? Illustrate the same with an example in python. 2  
(b) Write a program in python to print Fibonacci series till n terms, where n is entered by user. 2  
(c) Write a program in python to input a list of numbers from the user and display only those numbers which are divisible by 3 but not 5. 2  
(d) Explain operator overloading with the help of an example. 2  
(e) Write a program that inputs two lists 'FirstName' and 'LastName' and returns answer in list 'name' with 'FirstName' and 'LastName' concatenated. 3

OR

Write the definition of a method COUNTDOWN(places) to find and display those place names, in which there are more than 7 characters. {places is a list containing names of cities}

- Q.3 (a) Write the definition of function reverse(x) to display the elements in reverse order such that each displayed element is twice of the original element of the list X in the following manner:

X=[4,8,7,5,6,2,10]

After execution: X=[20,4,1,10,14,16,8]

2

(b) Write a user-defined function to generate odd numbers between a and b (including b). a and b are received as an argument by the function. 2

OR

Write a user defined function to generate prime Numbers till n , where n is given by user.

(c) Consider the following unsorted list : 95,79,19,43,5,3. write the passes of bubble sort along with the python code for sorting the list in ascending order till 4th iteration . 2

- Q.4 (a) Observe the following code and answer the following questions:
- ```
file=open("mydata","a")
_____#BLANK1
file.close()
```
- (i) What type (text/binary) of file is mydata? 1
- (ii) Fill in blank1 with a statement to write "ABC" in the file mydata.
- (b) (i) Write a statement in python to open a file STORY.TXT so that new contents can be added at the end of it. 1
- (ii) Neena intends to position the file pointer at the beginning of a text file. write python statement for the same assuming F as file object. 1
- (c) Write a user-defined function in python that displays the number of lines starting with 'H' in the file Para.txt. 2
- (d) Explain all the file modes in Data File Handling. 2
- (e) Consider a binary file Employee.dat containing details such as empno:ename:salary(separator ':') Write a program to display details of those employees who are earning between 20,000 and 40,000 (both inclusive) 3
- Q.5 (a) What do you understand by big-O notation? What is its significance? 2
- (b) Calculate the runtime efficiency of following program segment: 2
- ```
i=1
while i<=n:
    j=1
    while j <= n:
        k = 1
        while k <= n:
            print(i,j,k)
            k = k+1
        j= j+1
    i=i+1
```
- (c) Write a recursive function to implement binary search algorithm for descending ordered list of numbers. 3
- OR
- Explain different types of Formal arguments/parameters with example.
- Q.6 (a) Give full form of following: 1
- (i) IMAP (ii) RFID (iii) NFC (iv) CSMA/CA
- (b) What do you understand by parity checking? Explain in detail. 2
- (c) Differentiate between Client- Server and P2P computer networks. 2
- (e) Discuss how IPv4 is different from IPv6. 2
- (d) Differentiate between hub, switch and router. 3
- (f) Explain working of CSMA/CA and its two implementation. 4
- OR
- Discuss following network tools :
- (i) ping (ii) IPCONFIG (iii) WHOIS (iv) NSLOOKUP
- \*\*\*\*\*

**Half Yearly Examination 2019 – 2020****Time: 3:00 Hrs.****M. M. 80****Section – A**

Section - A Each Questions carry One Mark.

- Q.1 The principle value of  $\cos^{-1}\left(\frac{1}{2}\right) - 2\sin^{-1}\left(-\frac{1}{2}\right)$  is –  
 (a)  $\frac{\pi}{3}$  (b)  $\pi$  (c)  $\frac{\pi}{2}$  (d) None of these
- Q.2 If  $\tan^{-1}\left(\frac{1-x}{1+x}\right) = \frac{1}{2}\tan^{-1}x$ ,  $x > 0$  then  $x$  equals to –  
 (a)  $\sqrt{3}$  (b)  $\frac{1}{\sqrt{2}}$  (c)  $\sqrt{2}$  (d) None of these
- Q.3 If  $4\cos^{-1}x + \sin^{-1}x = \pi$  then the value of  $x$  is :  
 (a)  $\frac{3}{2}$  (b)  $\frac{1}{\sqrt{2}}$  (c)  $\frac{2}{\sqrt{3}}$  (d) None of these
- Q.4 If  $\tan^{-1}\left[\frac{\sqrt{1+x^2} - \sqrt{1-x^2}}{\sqrt{1+x^2} + \sqrt{1-x^2}}\right] = \theta$  then  $x^2$  equals to :  
 (a)  $\cos 2\theta$  (b)  $\sin \theta$  (c)  $\cos \theta$  (d) None of these
- Q.5 A is  $3 \times 4$  matrix and B is a matrix such that  $A'B$  and  $BA'$  both are defined. Then B is of order.  
 (a)  $4 \times 4$  (b)  $3 \times 3$  (c)  $3 \times 4$  (d)  $4 \times 3$
- Q.6 If  $A = \begin{bmatrix} 0 & -4 & 1 \\ 2 & \lambda & -3 \\ 1 & 2 & -1 \end{bmatrix}$  then  $A^{-1}$  exist if :  
 (a)  $\lambda \neq 4$  (b)  $\lambda = 8$  (c)  $\lambda \neq 8$  (d)  $\lambda = 4$
- Q.7 The area of the triangle with vertices  $(5,0)$ ,  $(-3,0)$ ,  $\left(\frac{3}{2}, 0\right)$  is :  
 (a) 1 (b) 2 (c) 0 (d) None of these
- Q.8 Let P and Q be two matrices of order  $2 \times n$  and  $2 \times p$  respectively. If  $n = p$  then order of matrix  $4P - 3Q$  is :  
 (a)  $p \times 2$  (b)  $n \times 3$  (c)  $2 \times n$  (d) None of these
- Q.9 A root of equation :  $\begin{vmatrix} 0 & x-a & x-b \\ x+a & 0 & x-c \\ x+b & x+c & 0 \end{vmatrix} = 0$  is :  
 (a) a (b) b (c) 1 (d) None of these
- Q.10 If  $a, b, c$  are in A.P. then the value of determinant  $\begin{vmatrix} x+2 & x+3 & x+2a \\ x+3 & x+4 & x+2b \\ x+4 & x+5 & x+2c \end{vmatrix}$  is :  
 (a) 1 (b) -1 (c) 2 (d) None of these
- Q.11 If  $y = t + \sin t$  and  $x = t \cos t$   $\frac{d^2y}{dx^2}$  at  $t = \frac{\pi}{2}$  is :  
 (a)  $\frac{\pi+4}{2}$  (b)  $-\left(\frac{\pi+4}{2}\right)$  (c)  $\frac{\pi-4}{2}$  (d) None of these

- Q.12 If  $x^y \cdot y^x = 16$  then  $\frac{dy}{dx}$  at  $(2, 2)$  is :  
 (a) 1 (b) -1 (c) 0 (d) None of these
- Q.13 The derivative of  $\tan^{-1} \frac{2x}{1-x^2}$  w.r.t.  $\sin^{-1} \frac{2x}{1+x^2}$  is :  
 (a)  $\frac{1}{1+x^2}$  (b) 1 (c) 0 (d) None of these
- Q.14 If  $x\sqrt{1+y} + y\sqrt{1+x} - 1 < x < 1$  then  $\frac{dy}{dx}$  equals to :  
 (a)  $\frac{1}{(1+x)^2}$  (b)  $-\frac{1}{(1+x)^2}$  (c)  $\frac{1}{x^2}$  (d) None of these
- Q.15 If  $y = 3\cos(\log x) + 4\sin(\log x)$  then :  
 (a)  $\frac{d^2y}{dx^2} - x\frac{dy}{dx} + y = 0$  (b)  $\frac{d^2y}{dx^2} + x\frac{dy}{dx} + y = 0$   
 (c)  $\frac{d^2y}{dx^2} - x\frac{dy}{dx} - y = 0$  (d)  $\frac{d^2y}{dx^2} + x\frac{dy}{dx} - y = 0$
- Q.16 The value of  $\int_0^1 \tan^{-1}\left(\frac{2x}{1+x-x^2}\right) dx$  is :  
 (a) 1 (b) 0 (c) -1 (d) None of these
- Q.17 The value of  $\int_0^{\pi/2} \log\left(\frac{4+3\sin x}{4+3\cos x}\right) dx$  is :  
 (a) 0 (b) 2 (c)  $\frac{3}{4}$  (d) None of these
- Q.18 The value of  $\int_0^{\pi/2} \frac{dx}{1+\tan^3 x}$  is :  
 (a)  $\frac{\pi}{4}$  (b)  $\frac{\pi}{2}$  (c) 0 (d) None of these
- Q.19 If  $f(x) = \int_0^x t \sin t dt$  then  $f'(x)$  is :  
 (a)  $x \sin x$  (b)  $x \cos x$  (c)  $\cos x + x \sin x$  (d) None of these
- Q.20  $\int e^x [f(x) + f'(x)] dx$  equals to :  
 (a)  $e^x f(x)$  (b)  $e^x f'(x) + c$  (c)  $e^x$  (d) None of these

### Section – B

Section – B Each Questions carry Two Marks.

- Q.21 Evaluate :  $\int \frac{x^2+4}{x+3} dx$ .
- Q.22 Form the differential equation of the family of circles with centre at origin.
- Q.23 If  $\sin y = x \sin(a+y)$  then find  $\frac{dy}{dx}$ .
- Q.24 if  $x = \sqrt{a^{\sin^{-1}t}}$  and  $y = \sqrt{a^{\cos^{-1}t}}$  then show that  $\frac{xd^2y}{dx^2} + \frac{2dy}{dx} = 0$ .
- Q.25 If  $A = \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix}$  Prove that  $A^3 - 4A^2 + A = 0$ .
- Q.26 Write  $A^{-1}$  for  $A = \begin{bmatrix} 2 & 5 \\ 1 & 3 \end{bmatrix}$ .

### Section – C

Section – C Each Questions carry Four Marks.

Q.27 Use the Property of determinant prove that :

$$\begin{vmatrix} 1+a^2-b^2 & 2ab & -2b \\ 2ab & 1-a^2+b^2 & 2a \\ 2b & -2a & 1-a^2-b^2 \end{vmatrix} = (1+a^2+b^2)^3. \quad \text{OR} \quad \begin{vmatrix} a^2 & bc & ac+c^2 \\ a^2+ab & b^2 & ac \\ ab & b^2+bc & c^2 \end{vmatrix} = 4a^2b^2c^2.$$

Q.28 Solve the following DE :  $\frac{dy}{dx} + y \sec x = \tan x$  OR  $\frac{dy}{dx} + y = \cos x - \sin x$ .

Q.29 Evaluate :  $\int \left[ \frac{1}{\log x} - \frac{1}{(\log x)^2} \right] dx$ . OR Evaluate :  $\int \frac{dx}{\sin x + \sec x}$ .

Q.30 Find the area enclosed between the curves  $y = x$  and  $y^2 = 16x$ .

OR

Find the area of region :  $\{(x, y) : x^2 \leq y \leq |x|\}$ .

Q.31 Differentiate  $x^{\cos x} + (\cos x)^x$  w.r.t.  $x$ . OR  $x \sin^x + (\cos x)^{\sin x}$ .

Q.32 Find the area enclosed between the parabola  $y^2 = 4ax$  and line  $y = mx$ .

OR

Find the area of the smaller part of circle  $x^2 + y^2 = a^2$  cut off by the line  $x = \frac{a}{\sqrt{2}}$ .

### Section - D

Section – D Each Questions carry Six Marks.

Q.33 Using elementary transformation find the inverse of matrix :  $\begin{bmatrix} 2 & -1 & 3 \\ -5 & 3 & 1 \\ -3 & 2 & 3 \end{bmatrix}$ .

OR

If  $A = \begin{bmatrix} 3 & 1 & 2 \\ 3 & 2 & -3 \\ 2 & 0 & -1 \end{bmatrix}$  find  $A^{-1}$  hence solve the system of equation  $\begin{cases} 3x + 3y + 2z = 1 \\ x + 2y = 4 \\ 2x - 3y - z = 5 \end{cases}$ .

Q.34 Solve the following L.P.P. graphically maximize  $z = 3x + 5y$   
such that  $x + 3y \geq 3$   
 $x + y \geq 2$   $x, y \geq 0$

Q.35 Evaluate :  $\int_0^{\frac{3}{2}} |x \sin \pi x| dx$  OR Evaluate :  $\int_1^3 (3x^2 + 2x + 1)$  as the limit of sum.

Q.36 Using integration find the area of triangle whose vertices are  $(-1, 2)$   $(1, 5)$  and  $(3, 4)$ .

OR

Using the method of integration find the area of the region bounded by lines.

$2x + y = 4$ ;  $3x - 2y = 6$  and  $x - 3y + 5 = 0$ .

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Roll. No.

Code No. 12/Political Science/NLCS/10

## Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 100

### General Instructions :

- (i) *All questions are compulsory.*
- (ii) *Question No. 1 to 20 are of One Mark each.*
- (iii) *Question No. 21 to 23 are of Two Marks each.*
- (iv) *Question No. 24 to 27 are of Four Marks each.*
- (v) *Question No. 28 is passage based carry Five Marks.*
- (vi) *Question No. 29 to 30 are picture based Questions. These Questions are Five Marks each.*
- (vii) *Question No. 31 is map based carry Five Marks.*
- (viii) *Question No. 32 to 34 are of Six Marks each and have internal choice.*

Q.1 Define cold war.

Q.2 Which party led the Soviet Revolution?

Q.3 Name one militant organization.

Q.4 What is SEZ?

Q.5 Name the type of Government in India.

Q.6 What is Veto power?

Q.7 Why do we need international organization?

Q.8 What is the warsaw pact?

Q.9 What is Shock Therapy?

Q.10 When did first Gulf War start?

Q.11 Name the currency of Europ.

Q.12 How many members are there in UNGA?

Q.13 Mention the three challenges India faced on the eve of Independence.

Q.14 Who was Potti Sriramulu?

Q.15 What was the White Revolution?

Q.16 Why did land reforms fail in India?

Q.17 Which foreign policy did India adopt after Independence?

Q.18 Name the two groups formed after the split in the congress.

Q.19 What was 'Garibi hatao'?

Q.20 On what ground was emergency implemented in India?

Q.21 Mention any two factors leading to the disintegration of Soviet Union.

Q.22 Mention any two consequences of Shock Therapy.

Q.23 Why is the phase 1947-67 called congress system?

Q.24 What was the effect of Cold War era on newly independent states?

Q.25 What is the full form of W.T.O.? When was it set up? How does it function?

Q.26 Highlight any four consequences of the partition of India in 1947.

Q.27 Explain the function of the Congress Party as an ideological and social coalition.

Q.28 Read the passage given below carefully and Answer the following Questions :

*The new economic policies helped his economy to break from stagnation. Privatisation of agriculture led to a remarkable rise in agricultural production and rural incomes. High personal savings in the rural economy lead to an exponential growth rural industry. His economy, including both industry and agriculture, grew at a faster rate. The new trading laws and the creation of Special Economic Zones lead to a phenomenal rise in foreign trade. He has become the most important destination for foreign direct investment (FDI) anywhere in the world. It has large foreign exchange reserves that now allow it to make big investment in other countries.*

- (i) Talking in this passage is for which country and why?
- (ii) Does the creation of Special Economic Zones lead to rise in Foreign Trade?
- (iii) 'The new economic policies helped the economy of country to break from stagnation.' Explain.

Q.29 Study the cartoon and Answer the Questions that follow :

- (i) Which elections are referred to here?
- (ii) Who are the people in the group? What did they expect?
- (iii) Name the popular leader why did the popular leader emerge strong?



Q.30 Read the following Cartoon and Answer the following Questions :

- (i) Which country is represented as thumb?
- (ii) What does this cartoon say about the nature of hegemony?
- (iii) Mention any one operation undertaken by this country.



Q.31 In the given political outline map of India, five places are marked as (A), (B), (C) (D) and (E). With the help of information given below, identify them.

- (i) States prosperous by Green Revolution.
- (ii) Cooperative Milk Production Movement Amul situated in this state.
- (iii) State related to Bhakda-Nangal Dam.

Q.32 Write an essay on Indo-Pakistan relation.

OR

Examine the ethnic conflict and democratic stability in Sri Lanka.

Q.33 Why did Nehru regard conduct of foreign relations as an essential indicator of Independence, state any two reasons with examples to support your reading.

OR

How does political leadership of a nation affect its foreign policy? Explain this with the help of examples from India's foreign policy.

Q.34 What reasons did the Government give for declaring a National Emergency in 1975?

OR

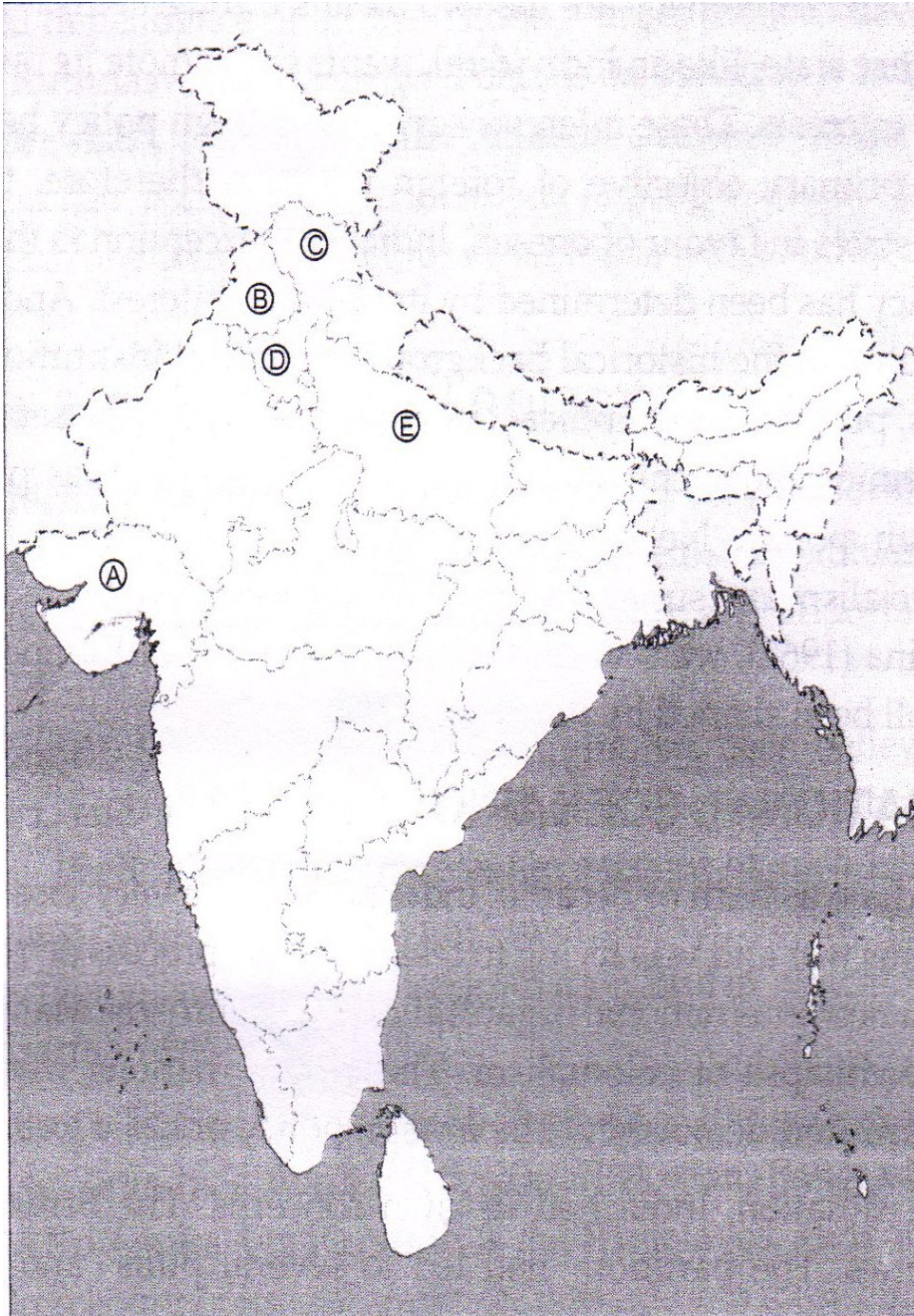
What were the reasons which led to the mid-term elections in 1980?

\*\*\*\*\*



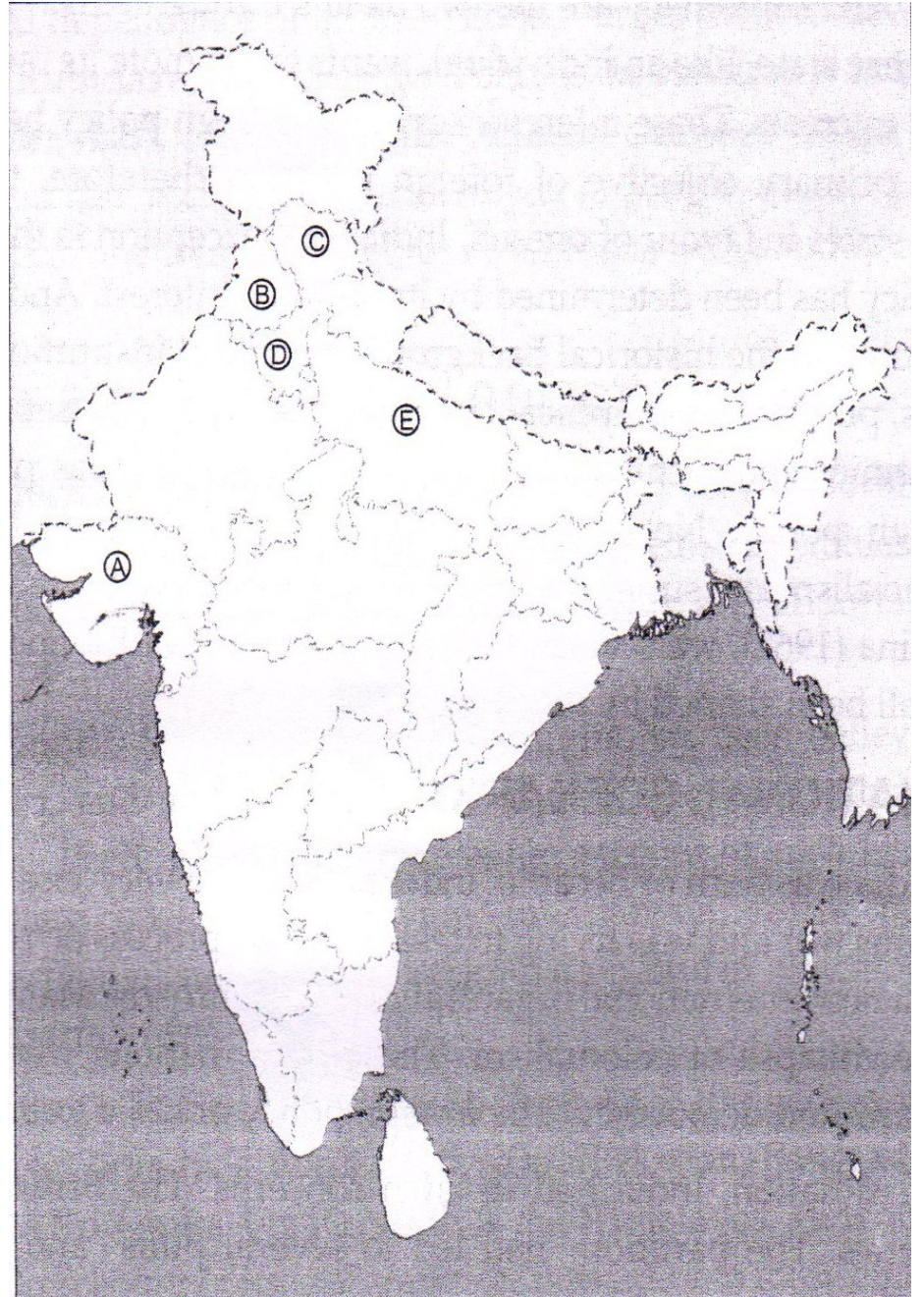
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Q.31



Roll No. \_\_\_\_\_ Class \_\_\_\_\_ Section \_\_\_\_\_

Q.31





Roll. No.  Code No. 12/Painting (Fine Arts)/NLCS/10

## Half Yearly Examination 2019 – 2020

Time: 1:00 Hrs.

M. M. 30

Note:- Each Question Carry 5 Marks.

- Q.1 What do you know about Indian Miniature Painting?  
Q.2 Mention any five features of Rajasthani school of Miniature Painting.

**OR**

Write an essay on Nihalchand and his painting which is included in your course of study.

- Q.3 Write short note On – “Krishna with Gopies”.  
Q.4 Write short note on the subject matter of “Kabir and Raidas” a famous painting during the time of Shahjahan.

**OR**

Write short note on any of the following painting :

- (i) Babur crossing the river sone.  
(ii) Jahangir holding the picture of Madonna.  
(iii) Falcon on the bird rest.  
(iv) Marriage procession of Dara Shikoh.  
Q.5 Write an essay on the origin and development of the Deccan school of Miniature Painting.  
Q.6 Write an essay on the Evolution of the Indian National Flag with study of the form and colour scheme.

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Roll. No. Code No. 12/Painting (Fine Arts)/NLCS/10

## Half Yearly Examination 2019 – 2020

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M. M. 30

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