THE SHIKSHIYAN SCHOOL
PRE-BOARD EXAMINATION
2019-20
ACCOUNTS
CLASS-XII

TIME: 3 Hours   **MM: 80 MARKS**

GENERAL INSTRUCTIONS:
1. This paper contains two parts A and B.
2. All questions are compulsory.
3. Question 1 to13 and 23 to 29 consists of 1 mark each.
4. Question 14 and 30 consists of 3 marks each.
5. Question 15 to 18 and 31 consists of 4 marks each.
6. Question 19, 20 and 32 consists of 6 marks each.
7. Question 21 and 22 consists of 8 marks each.

Q1. Maximum number of partners in a partnership firm has been explained in…………… (1)

Q2. A sleeping partner is…………… to acts of other partners of the firm. (1)

Q3. A Sleeping partner is one who: (1)

    (a)   Does not provide capital but takes active part in the firm
    (b)   Provides capital but does not take active part in the firm
    (c)   Provides capital, takes active part but does not share profits and losses of the firm
    (d)   Provides capital, share profits and losses of the firm but does not take active part in the firm

Q4. Partners share the profits and losses of the firm in : (1)

(a)   Their capital ratio
(b)   Agreed ratio
(c)   Equal ratio
(d)   Ratio of time devoted

Q5. The balance of partners current accounts are : (1)

    (a)   Debit
    (b)   Credit
    (c)   Can never be debit
    (d)   Either debit or credit

Q6. Ram withdrew ` 10,000 at the end of each month for 6 months. Interest on his drawings `10% p.a will be:
(1)
(a)   `1,750
(b)   `1,250
(c)   `1,500
(d)   None of these

Q7. Goodwill is an intangible asset but not a…………. asset (1)

Q8. If super profit of a firm is `10,000, its value of goodwill will be `…………if rate of return is 8% (1)

Q9. A, B and C are partner in a firm sharing profits in the ratio 3:2:1 . They decided to share profits equally in future. B's sacrifice / gain will be: (1)

(a)   Sacrifice 1/6
(b)   Gain 1/6
(c)   No change
(d)   None of these

Q10. Goodwill of the firm is not valued during ………………. (1)

(a)   Admission of a partner
(b)   Retirement / death of a partner
(c)   Amalgamation of two firms
(d)   Dissolution of partnership firm

Q11. A and B are partners sharing profits in the ratio of 5:4. They admit C for $1/3^{rd}$ share, which he acquires in equal proportion from both. The new profit sharing ratio will be: (1)

(a)   7:6:5
(b)   7:5:6
(c)   5:4:3
(d)   None of these

Q12. X and Y are partners sharing profits in ratio 2:1. Z is admitted as partner for ¼ share. The Sacrificing ratio will be : (1)

(a)   3:2
(b)   1:2
(c)   2:1
(d)   None of these

Q13. A and B are partners sharing profits in the ratio of 2:1. C is admitted for $1/4^{th}$ share which he acquired equally from A and B. If C brings `30,000 as goodwill, it will be credited to old partners as : (1)

(a)   `15,000 each
(b)   `20,000; 10,000
(c)   `10,000;20,000
(d)   None of these

Q14. Bombay Sports Club, disclosed that it received Rs.1,50,000 by way of subscription during
   The year ended 31st March, 2017.
   Additional information:

Subscription outstanding 2015-16(of which Rs.4, 000 received in 2016-2017)   6,000
Advance subscription received 31-3-16   4,500
Advance subscription received 31-3-17   5,100
Subscription outstanding on 31-3-16 for 2016-2017   3,800

Show how the subscription will appear in Income and Expenditure Account and the balance sheet Of 2016-2017?

(3)

Or

Q. What do you mean by Not-for-Profit Organization?

Q15. X, Y and Z were partners in a firm sharing profits and losses in the ratio of 5:3:2. On 31.03.2010, their balance sheet were as follows: (4)

Liabilities	`	Assets	`
Capitals A/cs :		Buildings	50,000
X 75,000		Patents	15,000
Y 62,500		Machinery	75,000
Z 37,500	1,75,000	Stock	37,500
Sundry creditors	42,500	Debtors	20,000
		Cash at bank	20,000
			2,17,500
	2,17,500		

Z died on 31-7-2010. It was agreed that:

(a)   Goodwill be valued at $2\frac{1}{2}$ years purchase of the average profits of the last four years, which were as follows:

Years	Profits (`)
2006-07	32,500
2007-08	30,000
2008-09	40,000
2009-10	37,500

(b)   Machinery be valued at ` 70,000; Patents at ` 20,000 and Building at ` 62,500
(c)   For the purpose of calculating Z's share of profits in the year of his death, the profits in 2010-11 should be taken to have been accrued on the same scale as in 2009-10.
(d)   A sum of ` 17,500 was paid immediately to the executors of Z and the balance was paid in four half-yearly installments together with interest at 12% p.a. starting from 31-1-2011.
Given necessary journal entries to record the above transactions and Z's executors account till the payment of installment due on 31-01-2011.

Q16. Anil, Sunil, and Ravinder entered into partnership on 1st January, 2011 to share profits in the ratio of 2:1:1. It was provided in the deed that Ravinder's share of profit will not be less than `70,000 p.a. The losses for the year ended 31<sup>st</sup>December, 2011 were ` 2, 00,000 before allowing interest ` 9,000 on Anil's loan which is due for

the current year. Prepare Profit and Loss Appropriation A/c for the year ended 31st December, 2011.   (4)

Or

Q. R and S were partners in a firm sharing profit in 3:2 ratio . Their respective fixed capitals were ` 10,00,000 and ` 1,50,000. The partnership deed provided the followings :

(a) Interest on capital @ 10% p.a.

(b) Interest on drawings @ 12% p.a.

  During the year ended 31-3-2017, R's drawings were ` 1,000 per month drawn at the end of every month and S's drawings were ` 2,000 per month drawn at the beginning of every month. After the preparation of final accounts for the year ended 31-3-2017, it was discovered that interest on R's drawings was not taken into consideration.

Calculate interest on R's drawing and give necessary adjustment entry for the same.

Q17. Ganesh Ltd. is registered with an authorized capital of Rs.10,00,00,000 divided into equity shares of Rs.10 each. Subscribed and fully paid up capital of the company was Rs.6,00,00,000. The company decided to issue 1,00,000 equity shares of Rs.10 each and 1,00,000, 9% debentures of Rs.100 each. The debentures were redeemable after five years at par. The issue of shares and debentures was fully subscribed . A shareholder holding 2,000 shares failed to pay the final call of Rs.2 per share.

(a) Show the share capital in the balance sheet of the company as per the provisions of schedule III of the Companies Act, 2013.   (4)

Q18. Hema and Garima were partners in a firm sharing profit in the ratio of 3:2. On March 31, 2015, their Balance sheet was as a follows: (4)

Balance sheet of Hema and Garima
as at March31, 2015

Liabilities	`	Assets	`
Creditors	36,000	Bank	40,000
Garima's Husband's loan	60,000	Debtors	76,000
Hema's Loan	40,000	Stock	2,00,000
Capitals:		Furniture	20,000
Hema 2,00,000		Leasehold premises	1,00,000
Garima 1,00,000	3,00,000		
	4,36,000		4,36,000

On the above date, the firm was dissolved. The various assets were realized and liabilities were settled as under:

(1)   Garima agreed to pay her husband's loan.

(2)   Leasehold Premises realized ` 1,50,000 and Debtors ` 2,000 less.

(3)   Half the creditors agreed to accept furniture of the firm in full settlement of their claim and remaining half agreed to accept 5% less.

(4)   50% Stock was taken over by Hema on cash payment of ` 90,000 and remaining stock was sold for ` 94,000.

(5)   Realisation expenses of ` 10,000 were paid by Garima on behalf of firm.
        Pass necessary journal entries for the dissolution of the firm.

Q19. Prepare Income and Expenditure Account and the Balance sheet of Lion's Club, Delhi for the year ended 31st. December, 2016 from the following receipts and Payments Account and additional information:

Receipts and Payments Account

Dr.   For the year ended 31-12-2016   Cr.

Receipts		Amount	Payments	Amount
Cash in Hand b/d		4, 500	Salaries of 11 months	1,100
Subscriptions:			Tournament Expenses	1,600
2015	100		Investment	1,000
2016	2,400		Furniture	400
2017	200	2,700	Stationery	1,200
			Sports Expenses	15, 000
Sale of old furniture(costing			Misc. Expenses	200
Rs.200)		140	Rent paid upto Feb.,	1,400
Tournament Receipts		2,000	2017	440
Sports Fund		10,000	Cash in Hand	
Donation For Sports		3,000		
		22,340		22,340

Club has 300 members, each paying an annual subscription of Rs.10. Rs.70 are still in arrear for Subscription of 2015. In 2015, ten members had paid their subscription for 2016 as well. Stock for stationery in 2015 was Rs.100 and on 2016 was Rs. 140.

On 1-1-2016, club owned land and building valued at Rs.20, 000 and furniture valued at Rs.1,300 Interest accrued on investment @ 6% p.a. for 3 months. (6)

Q20. Cosmo Ltd. has 30,000: 8% debentures of `100 each on March 31, 2015. These are due for redemption in three equal half yearly installments commencing from sept. 30, 2015 . Company redeemed the debentures after compliance of requirement of companies Act,2013. pass journal entries in the books of the company assuming investment was made in schedule bank and was encashed each time for redemption of debentures. (Ignore Interest) (6)

Q21. Anshika Ltd. issued applications for 2,00,000 equity shares of Rs.10 each, at a premium of Rs.4 per share . The amount was payable as follows:

      On application Rs.6(including Rs.2 premium)

      On allotment Rs.7 (including Rs.2 premium)

      Balance on first and final call Applications for 3,00,000 shares were received. Allotment was made to all the applicants on pro- rata basis. Mehak to whom 400 shares were allotted, failed to pay allotment and call money. Khushboo who had applied for 300 shares failed to pay call money. These shares were forfeited   after final call. 400 of the forfeited shares (including all shares of Khushboo) were reissued @ Rs.8 per share as fully paid up. Pass necessary journal entries in the books of Anshika Ltd. for the above transactions by opening calls in arrears and call in advance account wherever necessary. (8)

OR

   Khyati Ltd. issued a prospectus inviting applications for 80,000 equity shares of Rs.10 each payable as follows:

     Rs.2 on application

     Rs.3 on allotment

     Rs.2 on first call

     Rs.3 on final call

   Applications were received for 1,20,000 equity shares. It was decided to adjust the excess amount received on account of over subscription till allotment only.

   Hence allotment was made as under:

(i)   To applicants for 20,000 shares- in full

(ii)   To applicants for 40,000 shares- 10,000 shares

(iii)   To applicants for 60,000 shares- 50,000 shares

Allotment was made and all shareholders except Tammana, who had applied for 2,400 shares out of the group (iii) , could not pay allotment money. Her shares were forfeited immediately, after allotment. Another shareholder Chaya, who was allotted 500 shares out of group (ii) failed to pay first call. 50% of Tamanna's shares were reissued to Satnam as Rs.7 paid up for the payment of Rs.9 per share. Pass necessary journal entries in the books of Khyati Ltd. for the above transactions by opening calls in arrears and call in advance account wherever necessary.

Q22. On 31-3-2010, the Balance sheet of W and R who shared profits in 3:2 ratio was as follows:

(8)

Liabilities	`	Assets	`
Creditors	20,000	Cash	5,000
Profit & Loss A/c	15,000	Sundry Debtors 20,000	
Capital A/cs :		Less: provision 700	19,300
W 40,000		Stock	25,000
R 30,000	70,000	Plant and Machinery	35,000
		Patents	20,700
	1,05,000		1,05,000

On this date, B was admitted as a partner on the following conditions:

(a)   'B' will get 4/15th share of profits.
(b)   'B' had to bring ` 30,000 as his capital to which amount other partners capitals shall have to be adjusted.
(c)   He would pay cash for his share of goodwill which would be based on $2\frac{1}{2}$ years purchase of average profits of past 4 years.
(d)   The assets would be revalued as under :
        Sundry debtors at book value less 5% Provision for bad debts. Stock at ` 20,000 , Plant and Machinery at ` 40,000.
(e)   The profits of the firm for the year 2007, 2008 and 2009 were ` 20,000, ` 14,000 and ` 17,000 respectively.

Prepare Revaluation Account, Partners Capital Account and The Balance sheet of the new firm.

OR

Q. X, Y and Z were a partner in a firm who's Balance Sheet as on 31st March, 2017 was as under:

Liabilities	`	Assets	`
Creditors	18,240	Cash	16,240
General Reserve	7,500	Debtors	22,500
Capitals :		Stock	26,500
X 20,000		Furniture	50,000
Y 14,500			
Z 10,000	44,500		
	70,240		70,240

Y retired on that date. In this connection, it was decided to make the following adjustments:

(a)   To reduce stock and furniture by 5% and 10% respectively.
(b)   To provide for doubtful debts at 5% on debtors.

(c)   A long dispute with the creditors was settled and firm will have to pay ` 9,050. In anticipation ` 6,000 have already been included in sundry creditors for the purpose.
(d)   Goodwill was valued at ` 12,000.
(e)   To share profits and losses in 5:3 ratio.
(f)   Y should be paid off and the entire sum payable to Y shall be brought in by X and Z in such a way that their capitals should be in their new profit sharing ratio.

Prepare Revaluation A/cs, Partners capital A/cs and Balance Sheet after Y's retirement.

Part - B

Q23. What will be the effect on current ratio if a Bills payable discharged on maturity?   (1)

Q24. The two basic measures of operational efficiency of a company are: (1)

(a)   Inventory Turnover Ratio and Working Capital Turnover Ratio.
(b)   Liquid Ratio and Operating Ratio
(c)   Liquid Ratio and Operating Ratio
(d)   Gross Profit Margin and Net Profit Margin

Q25. Debt equity ratio of a company is 1:2. Purchase of a Fixed Asset for ` 5,00,000 on long term deferred payment basis will increase, decrease or not change the ratio ?   (1)

Q26. What is meant by 'Cash and Cash Equivalent' ?   (1)
 Q27. Under which type of activity will you classify 'Rent Received' while preparing cash flow   Statement?
                                                                                                                      (1)
Q28. Give two example each of Current assets and Current liabilities.   (1)
Q29. Mention any two analytical tools of financial statement   (1)
Q30. State under which major heading the following items will be presented in the Balance Sheet of a company as per Received schedule III, Part I of the companies Act, 2013 :   (3)

(1)   Trade Marks
(2)   Capital Redemption Reserve
(3)   Income Received in Advance
(4)   Stores and spares
(5)   Office Equipment
(6)   Current Investments

OR

Q. Net profit after interest and tax ` 1,00,000; Current Assets ` 4,00,000 ; Current Liabilities ` 2,00,000; tax rate 20%; Fixed Assets ` 6,00,000; 10% long-term Debt ` 4,00,000. Calculate return on Investment.

Q31. Prepare Comparative Income Statement of Blue Bell Co. ltd. from the information given below:

Particular	31-3-2015 (`)	31-3-2016 (`)
Revenue from operation(% of Material Consumed)	140%	130%
Cost of Material Consumed	8,00,000	10,00,000
Employees Benefits Expenses (% of Revenue from operations)	15%	14%
Other Expenses(% of Material Consumed)		
Other Income(% of Revenue from Operations)	10%	10%

		10%	10%
Tax Rate		35%	35%

OR

Q. From the following balance sheets of Blue Star Ltd., as on 31st March, 2014 and 2015, prepare a Comparative Balance Sheet and comment on comparative position of the company.

Particular	NoteNo.	2014(`)	2015(`)
I.EQUITY AND LIABILITIES			
(1) Shareholders Fund			
(a) Share Capital		8,00,000	10,00,000
(b) Reserves and surplus	1	2,70,000	4,30,000
		10,70,000	14,30,000
(2) Non-current Liabilities			
Long-term Borrowings		5,80,000	7,00,000
(3) Current Liabilities			
Trade payables		2,50,000	2,20,000
Total		19,00,000	23,50,000
II. ASSETS			
(1) Non-current Assets			
Fixed Assets- tangible			
Gross Block		13,00,000	19,00,000
Less: Depreciation		2,00,000	3,00,000
Net Block		11,00,000	16,00,000
Non-Current Investments		4,00,000	3,00,000
(2) Current Assets			
(a) Inventories			
(b) Trade Receivables		2,00,000	2,20,000
(c) Cash and Cash Equivalents		1,60,000	1,70,000
		40,000	60,000
Total		19,00,000	23,50,000

Q32. From the following Balance Sheets of Vishva Ltd. , prepare Cash Flow Statement as per AS-3 (revised) for the year ending 31st March, 2018   (6)

Particulars	Note No.	31.3.2018 (Rs.)	31.3.2017 (Rs.)

			31.3.2018	31.3.2017
1. EQUITY AND LIABILITIES				
(1) Shareholders' Fund				
(a) Share Capital			1,02,000	84,000
(b) Reserve and surplus	1		36,000	22,560
(2) Non- Current Liabilities				
Long- term borrowings	2		60,000	48,000
(3) Current Liabilities				
(a) Short- term Borrowings	3		10,000	5,000
(b) Trade Payable			28,800	36,000
(c) Short term Provisions	4		16,800	18,000
Total				
2. ASSESTS				
(1) Non- Current Assets				
Fixed assets				
(i) Tangible Assets	5		1,18,800	1,32,000
(2) Current Assets				
(a) Inventories			61,800	45,600
(b) Trade Receivables	6		33,600	27,600
(c) Cash and Cash Equivalents			39,400	8,360
Total				

Notes to Accounts:

Note No.	Particulars	31.3.2018 (Rs.)	31.3.2017 (Rs.)

No.	Particulars		
1.	Reserve and Surplus		
	Balance in Statement of Profit and Loss	15,600	5,760
	General Reserve	20,400	16,800
		36,000	22,560
2.	Long Term Borrowings		
	10% Debentures	60,000	48,000
		60,000	48,000
3.	Short- term Borrowings		
	Bank Overdraft	10,000	5,000
		10,000	5,000
4.	Short- term Provisions		
	Provisions for Income Tax	16,800	18,000
		16,800	18,000
5.	Tangible Assets		
	Land and Building	96,000	97,200
	Plant and Machinery	22,800	34,800
		1,18,800	1,32,000
6.	Trade Receivables		
	Debtors	19,200	24,000
	Bill Receivables	14,400	3,600
		33,600	27,600

Additional Information:
  (a) Tax paid during the year 2017-18 Rs.14,400.
  (b) Depreciation on plant charged during the year 2017-18 was Rs.14,400.
  (c) Additional debentures were issued on March 31,2018.

The Shikshiyan School
PRE-BOARD EXAMINATION
2019-2020
BUSINESS STUDIES (SET-A)
CLASS-XII

Time allowed: 3 hours   **Maximum Marks: 80**

General instructions:

1. Marks for questions are indicated against each question

2. Question No.1-20 (Section-A) are objective type questions carries 1 mark each.

3. Question No. 21-25 (Section-B) are short answer questions carries 3 marks each. Answers to them should not normally exceed 60 words each.

4. Question No.26-28 (Section-C) are short answer questions carries 4 marks each. Answers to them should not normally exceed 70 words each.

5. Question No.29-31 (Section-D) are long answer questions carries 5 marks each.

6. Question No.32-34 (Section-E) are long answer questions carries 6 marks each.

7. Answers should be brief and to the point and the above word limit be adhered to as far as possible.

Section-A   (20)

1. Shimona Ltd. is a company dealing in office furniture. The company chose to diversify its operations to improve its growth potential and increase market share. As the project was important, many alternatives were generated for the purpose and were thoroughly discussed amongst the members of the organization. After evaluating the various alternatives, MP Singh, the Managing Director of the company, decided that they should add 'Home Interiors and Furnishings' as a new line of business activity. Name the framework, which the diversified organization should adopt, to enable it to cope with the emerging complexity.

 (a) Functional structure   (b) Formal structure   (c) Divisional structure   (d) None of these

2. Companies like Amazon, Flipkart, Snapdeal etc. sell their products directly to their consumers. Which marketing mix is referred here?

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

3. Which of the functional foreman is responsible for the sequence of processes in production?

(a) Gang Boss   (b) Repair Boss   (c) Route Clerk   (d) Speed Boss

4. Aplan is developed once but is modified from time to time to meet business needsas required.

 (a) Standing   (b) Single use   (c) Both (a) and (b)   (d) Neither (a) nor (b)

5. Labeling facilitates the use of a product. (True/False)

 6. ITC's E-Chaupal initiative is an example of business organization fulfilling its _____

 (a) Organizational objectives   (b) Social objectives   (c) Personal objectives   (d) All of these

7. Which financial decision is concerned with the appropriation of profits?

 8. There has been an increase in the corporate form of business and increasing emphasis on managed business concern. What does it imply about the nature of management?

(a) Management is a profession.   (b) Management is a science.   (c) Both (a) and (b)   (d) Neither (a) nor (b)

9. BPL Ltd. entered into the market with coloured televisions and has now introduced products like audio systems, air-conditioners, washing machines, etc. The company is not only offering the products, but also handling complaints and offering after-sales services. Identify the element of marketing mix discussed here.

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

10. Complete_____ imply concentration of all decision-making functions at the apex of the management hierarchy.

(a) Decentralisation   (b) Centralisation   (c) Training   (d) Development

11. Beta Ltd. manufactures files and folders from old clothes to discourage the use of plastic files and folders. For this, they employ people from nearby villages where very less job opportunities are available. An employee, Satish, designed a plan for cost reduction but it was not welcomed by the production manager. Another employee gave some suggestions for improvements in design, but it also was not appreciated by the production manager.

State the principle of management that is violated in the above paragraph.

(a) Initiative   (b) Discipline   (c) Order   (d) Equity

12. State the role of 'gang boss' in functional foremanship.

13. Darshit is a very intelligent planner. He knows the market pretty well. For last 10 years he has been leading several successful projects for his company. Company gives him responsibility to start a new project in Russia. With his experience he makes assumptions about all the possible future scenarios. Identify the step of planning process in the given paragraph related to.

(a) Setting objectives   (b) Developing premises   (d) Follow up action   (c) Implementing the plan

14. Cost of debt" is lower than the cost of "Equity share capital". Give reason why even then a company cannot work only with the debt.

15. A_____is a statement of expected results expressed in numerical terms.

(a) Policy   (b) Rule   (c) Budget   (d) Method

16. Why is management called an intangible force?

17. Crackers Ltd., a fire-cracker manufacturing company launched some new products on eve of Diwali which attracted many buyers. To meet the increased demand, the company employed children from nearby villages. Although the product was in great demand, appropriate safety warning for use were not mentioned on the packets that led to many accidents.

Identify the important product-related decision that was not taken into consideration by the company.

(a) Branding   (b) Packaging   (C) Labeling   (d) None of these

18. Which of the following is a flexible structure?

(a) Functional structure   (b) Formal organization   (c) Divisional structure   (d) Informal organization

19. The label of a health drink did not disclose the presence of Soya content towards which many people are allergic. Which consumer right is being violated?

(a) Right to safety   (b) Right to seek redressal   (c) Right to choose   (d) Right to information

20. Profits can be maximized by attracting and persuading the customers to buy the product. Which concept of marketing management is being referred to?

Section-B   (5X3=15)

21. A company, in need of funds, is planning to issue equity shares. The directors of the company are suggesting different methods for the new issue of these shares. Identify the methods of floatation suggested by them.

(a) Sell the entire isue to Life Insurance Corporation

(b) Issue the shares to public through intermediaries like issuing house

(c) Offer the new issue to the existing shareholders

22. Differentiate between on the job training and off the job training?

Or

What do you mean by performance appraisal?

23. Passion Cosmetic entered the market with a complete range of Lipsticks. It established its Production unit in Panipat and the Head Office in Noida. After making its presence felt in the market and capturing a good market share, it decided to launch a range of nail points and eyeliners. It also purchased some new hi-tech machines for the production of its entire range of products.

(a) What type of organisation structure would you suggest for Passion Cosmetics and why?

(b) State any two limitations of this structure.

24. Controlling is both backward and forward looking function. Do you agree? Give reason.

25. What is meant by 'marketing concept?

Section-C   (3X4=12)

26. A company which had been in the business of manufacturing decorative lamps. Suddenly, it started facing the problem of high employee turnover. Mr. Tejas , the Human Resource manager identified that employees were not getting sufficient time to interact with each other and there were too many restrictions on them. Also, he found that the employees felt that their work is not given due recognition due to which they do not feel like working there. To retain the efficient employees and to keep them on high spirit, Mr.Tejas, the Human Resource Manager formed a Waatsapp group including all the employees. Every month Mr. Tejas would post the name of The Employee of the Month' in the group and everybody posted their comments in praise of that employee. They were also free to discuss their other issues in the group that created a climate where they developed faith and respect for each other.

(a) As per the Maslow's Need Hierarchy Theory which needs of employees were not satisfied in the organization? State by quoting the relevant lines.
(b) Which incentives were used by Mr. Tejas to motivate the employees? Also state its type.
27. Discuss any four functions of Financial Markets.
Or
What is meant by Long-term Investment Decision? State any three factors which affect the long term investment decisions.
28. Life' a brand of clothing catering to the upper middle class consumer decided to enter the segment of Premium clothing. For this, it studied the demand pattern, the taste and preferences of the prospective consumers through a series of surveys conducted by its expert team. It also decided to have an app named, Your Look', to provide customized services to this group of consumers.

(a) State by quoting the line, the dimension of business environment studied by Life.

(b) Discuss any three points highlighting the importance of Environment Scanning to the firm.

Section- D   **(3X5=15)**

29. The monthly production target of a company for the year 2019 was 5,000 units. The Production Manager had two supervisors under him. He gave them the task of maintaining the daily production statements so that they can easily identify whether the work is going in the right direction or not. The Production Manager had weekly meetings with the Supervisors to know about the deviations, if any and to decide the future course of action. Since, the supervisors had one to one interaction with the workers daily, so the production manager always took into consideration the suggestions given by the Supervisors. Identify and explain the leadership style displayed by the production manager in the above case. Also explain the other two leadership styles.

30. Explain the important activities performed by human resource management.

Or

There are barriers concerned with the state of mind of both the sender and the receiver. Identify the barrier and state any four such types of barriers.

31. The Indian Pharmaceutical industry has realised that the different types of bacteria have become resistant to the existing antibiotics. To ensure that this may not lead to major medical issues in future, they have started working on this issue. If things go as anticipated, then a new antibiotic for such bacteria, based upon the Made-In-India compound would hit the market by 2025.

(a) Which function of Management is being performed in the given situation?
(b) Discuss its importance.

Or

Samir Gupta started a telecommunication company, 'Donira Ltd.' to manufacture economical mobile phones for the Indian rural market with 15 employees. The company did very well in its initial years. As the product was good and marketed well, the demand of its products went up. To increase production the company decided to recruit additional employees. Samir Gupta, who was earlier taking all decisions for the company had to selectively disperse the authority. He believed that subordinates are competent, capable and resourceful and can assume responsibility for effective implementation of their decisions. This paid off and the company was not only able to increase its production but also expanded its product range.
(a) Identify the concept used by Samir Gupta through which he was able to steer his company tegreater heights.
(b) Also explain any four points of importance of this concept.

Section- E   **(3x6=18)**

32. Explain the following techniques given by EW. Taylor:

(a) Differential Piece Wage System
(b) Standardization and Simplification

Or

Explain the following principles of management given by Fayol:
(a) Espirit De Corps
(b) Initiative

33. `It refers to the use of communication with the twin objective of informing the potential customers about the product and persuading them to buy the product.'

(a) Which element of Marketing Mix is being referred to? Explain it.
(b) Discuss its different tools.

34. The directors of a company decided to issue debentures worth Rs. 70, 00,000 in order to finance their expansion plans. This would lead to increase in the debt equity ratio from 2:1 to 3:1 but at the same time would increase the earning per share.

(a) Which financial decision is being taken by the directors? Explain it.
(b) Which concept of financial management is referred to?
(c) Discuss four factors that they need to consider before taking decision.

Or

`Stock exchange not only contributes to the economic growth, but performs many other functions.' Explain any four such functions.

PRE-BOARD EXAMINATION
2019-20
ECONOMICS
CLASS-XII

TIME: 3 Hours   **MM: 80 MARKS**

General Instructions:

i.   Marks for questions are indicated against each question
ii.   Question No.**1-10** and **18-27** are very objective type questions carrying **1** mark each.
iii.   Question No.**11-12** and **28-29** are short answer questions carrying **3** marks each. Answers to them should not normally exceed **60** words each.
iv.   Question No.**13-15** and **30-32** are also short answer questions carrying **4** marks each. Answers to them should not normally exceed **70** words each.
v.   Question No.**16-17** and **33-34** are long answer questions carrying **6** marks each. Answers to them should not normally exceed **100** words each.
vi.   Answers should be brief and to the point and the above word limit be adhered to as far as possible.

SECTION-A: INTRODUCTORY MACRO-ECONOMICS

1. Fill in the blank :

    Deposits which are payable by the banks on the demand by the customer at any time are known

    as _____.(Time deposits/Demand deposits)

2. Fiscal deficit –Interest payment =_____

    a)Revenue deficit   b)Primary deficit

    c)Both a and b   d)Neither a and b.

3.   State ,with reason, whether the given statement is true or false:

    Autonomous transactions are also known as "Below the line items".

4.   Define involuntary unemployment.

5.   Aggregate demand can be increased by _____.

    a)Increasing bank rate   b)Increasing CRR

    c)Increasing consumption   d)None of the above .

6. In an economy ,investment increased from 1000 to 2000 cr but the income increases by 5000 cr .What is the value of investment multiplier?

a)2   b)3

c)4   d)5

7. Change in government spending is a part of :

a)Monetary policy   b)Fiscal policy

c)Either a and b   d)Neither a and b

8. Foreign exchange transaction which are independent of other transaction in the BOP are called ___.

a)Accommodating transaction   b)Autonomous transaction

c)Current transaction   d)Capital transaction

9. As a result of Double counting ,national income is _____estimated.(over /under)

10. _____ is a compulsory payment by the people to the government without expectation of any direct return or benefit to the payer.(Fine/Tax)

11. "GDP does not give us a clear indication of economic welfare of a country ".Defend or Refute the given statement with valid reason.

OR

What are non-monetary exchanges ?Discuss with suitable examples.

12. "Devaluation and depreciation of currency are one of the same thing ".Do you agree? How do they effect the export of a country?

If in an economy :

Change in initial Investment – 500 cr

MPS =0.2

Find the values of the following :

a)Investment multiplier

b) Change in final income

13. Distinguish between revenue receipts and capital receipts in a government budget. Give examples.

14. Elaborate any two instruments credit control as exercised by the Reserve Bank of India .

OR

What role does credit multiplier play in determining the credit creation power of the banking system ?Use a numerical illustration to explain.

15. If in an economy :

Change in initial Investment – 500 cr

MPS =0.2

Find the values of the following :

a)Investment multiplier

b) Change in final income

16. From the following data given below estimate a)NDP at FC   b)NNP at FC

Items	(Rupees in cr)
Gross domestic capital formation	250
Net exports	-50
Private final consumption expenditure	900
Value of output of	
a)Primary product	900
b)Secondary product	800
c)Tertiary product	400
Value of intermediate consumption by	
a)Primary product	400
b)Secondary product	300
c)Tertiary product	100
Depreciation	80
IT	100
Government final consumption expenditure	100
Subsidies	10
NFIA	-20

17. Outline the steps required to taken in deriving the consumption curve from the given Saving curve .Use diagram.

OR

Explain the meaning and impact of Deficient Demand .Explain two measures by which full employment equilibrium can be reached.

SECTION-B: INDIAN ECONOMIC DEVELOPMENT

18. One child policy was introduced in _____.

a)Britain   b)China   c)USA   d)Japan

19. _____ is a system in which a central planning authority seeks to utilize country's resources for developmental activities.(Capitalism, Economic planning)

20. Which of the following is an example of economic infrastructure?

a)Housing   b)Communication

c)Education   d)Health

21. Which sector is the largest consumer of commercial energy?

a)Agricultural sector   b)Industrial sector

c)Transport sector   d)Household sector

22. Which of the following is not a feature of globalization?

a)Disinvestment   b)Liberalization

c)Rationalization of tariff   d)Reforms in foreign exchange management

23. In terms of the sectoral contribution to GDP, economies of India and Pakistan depends heavily on_____.

a)Primary sector   b)Secondary sector

c)Tertiary sector   d)Both primary and secondary sector

24. Fill in the blank:

_____ refers to the reduction in the amount of ozone in the atmosphere.(Global warming, Ozone deletion)

25. Fill in the blank:

Plant and animals are examples of _____ components of environment.(Biotic/abiotic)

26. Define outsourcing.

27. The great leap Forward campaign in china focused on :

a)Widespread industrialization   b)New agricultural strategy

c)Privatization   d) Economic reforms

28. The sole purpose of the British rule in India was to reduce the country to be feeder economy for the protection and promotion of its interest. However ,British policies had a positive impact on Indian economy .Discuss any 3 positive contributions made by British in India .

29. What are the three major causes of poverty in India ?

OR

Differentiate between Relative poverty and absolute poverty.

30 Explain the role of non-farm employment in promoting rural diversification?

31.	What are the common successes shared by India and Pakistan?

32.	What problem are being faced by the power sector in India?

<div align="center">OR</div>

Discuss the main drawbacks of our healthcare system.

33.	State the reforms included in the policy of liberalization under economic reforms.

34.	How do the following factors contribute to the environmental crisis in India ?

a)Global warming

b)Urbanization

c)Increase in population .

<div align="center">OR</div>

What is sustainable development ? What are the principal strategy to attain sustainable development

MM: 80   **Time 3 hrs.**

The Question paper is divided into three sections:

Section A: **Reading**   **20 Marks**
Section B: **Writing**   **30 Marks**
Section C: **Literature**   **30 Marks**

<u>**General Instructions**</u>

1. **All questions are compulsory.**
2. **You may attempt any section at a time.**
3. **All questions of that particular section must be attempted in the correct order.**

SECTION- A (READING :20 MARKS)

Q1. Read the following passage and answer the following questions (12 M)
Techs of Technology

1. Haptics is the process of simulating the sense of touch using computer and force-feed back hardware. Out research in sympathetic haptic is a method of transmitting the sense of touch to another person. In the 'master-slave' form of haptic, a user controls the motion and sense the touch of another person. In the collaborative technique, two users interact with each other to carry out a task concurrently, such as holding a box together or inserting a pin in a ring. Sympathetic differs from both of these techniques in that the goal is to capture the sensation of one user an repeat it in such a fashion the second user re-lives it in exactly the same way as the original user intended it to be.

2. This concept promises to improve training, collaboration and communication in such varied fields as medicine, engineering and art. We could use this technique to capture motions of a skilled artist for example, and allow a trainee to experience the motion and the pressure applied by the master, and follow the latter in the virtual reality interfere. This would be a tremendous improvement over such forms of teaching and communication as the video and audio technologies being used today.

3. The process of capturing and re-living can be performed over the internet and hence can be used in many novel applications such as distance learning and telemedicine. Since the sense of touch is so personal to most of us, it will improve the cognitive process of learning.

Another benefit of the technology is its ability to capture for future replay and continual instruction the sensation of an activity after it's been transmitted. Touch is the 'missing link' in today's multimedia tools. Just as video and audio made internet a more exciting place, haptic will make it an even more realistic medium for exchanging information.

4. This technology can be used in a number of healthcare – related professions, such as in training surgeon to apply precise levels of skill while making an incision. This can also be used to carry out an examination over the internet in a telemedicine setting, since procedures such as palpation of the abdomen cannot be performed today. While in principle these applications may be very attractive, the current state of technology may pose hurdles in its safe implementation. But just as in any new technology, once some of the current kinks are overcome, this technology may become as common as a stethoscope or instruments used to measure blood pressure.

5. The lack of internet bandwidth means that more research needs to be done before the vision can become reality. The present levels of available internet bandwidth, even with high-speed networks, are a problem, since the sense of touch requires high data transmission to simulate haptic sensation over the network. We've develop methods by sing software techniques to smoothen out the gaps caused by the lost data. These works in limited bandwidth applications that we've developed so far. The future generation of internet promises to facilitate applications with larger band-width requirements.

6. Temperature transmission is perhaps possible with today's technology, but I don't think emotion can ever be transmitted accurately over the Net. As human beings, I hope we don't give everything away to the machines.

7. As with any new technology, it is hard to predict how this will evolve over the year. I'm not sure were the abuse may come from. But as some observers and experts pointed out to me recently, we would need to keep adult and objectionable sites from laying their hands on this technology.

8. There is nothing to stop this technology from making inroads into India. Given today's technology – savvy society, I think it will also receive widespread acceptance. As you say, the main hurdle at this stage could be the price of the haptic and the force – capturing devices being used. The lack of widespread availability of cable and DSL type networks may also prove to be a hurdle in the immediate future. But I'm confident that these problems will cause to be major issues over the next few years.

A. Answer the following questions briefly:

   a) How does 'Haptic' differ from, sympathetic haptic? [2]

   b) How is the concept of 'Haptic' useful? [2]

   c) Which sites should be kept from laying their hands on this technology? [1]

   d) Give two uses to Haptic in health care. [2]

   e) Is the infrastructure demands? [2]

B. Find the word from the passage which means same as (1X3=3)
   a) Transfer (Para 1)

   b) Cut (Para 4)

   c) Partnership (Para 2)

Q2. Read the following passage and answer the following question that follows: (8 M)
1. "There is no need to define morality, let man be simply compassionate.' This sentence expresses the basic essence of morality, the extent to which it relies on compassion for its definition. For when we think about it, is not that truly human feeling of compassion the basis of all morality?

2. Morality rests for its very meaning on the concepts of 'good' and 'bad' where 'good' refers to all thoughts and deeds that do not aim at or accomplish any harm or injury or do not involve an attempt to inflict suffering on others. Thus morality is based on man's ability to understand, being able to sympathies, feel kindness and sorrow for and identify himself with the sufferings of his fellow men. So, only compassion can give rise to oral thoughts and feelings.

3. Depriving a person of what is his or what must belong to him – what is called stealing – for selfish ends, taunting or insulting others through words or actions for the purpose of self – gratification, violence – expressed verbally or as acts of torture,. Killing etc. – for the sake of

violence contradict morality as well as an inner feeling of kindness and compassion.

4. When we talk about social morality of any kind, what comes into play is our ability to feel for the well-being of our society. A certain moral code of conduct is ultimately necessary to ensure that the society does no fall prey to degeneration of values, which would lead to rampant suffering and ultimately chaos. It is a concern to help the society by safeguarding it form unwanted ills and malaises and ensuring its well – being. Society's concerns are our concerns; anything capable of causing a detrimental impact on it in the short term or in course of time is ultimately bound to affect us and our children.

5. There is the need to realize that man must continue to feel compassion for the sake of himself as well as the society. But like any other human trait, compassion ought of be continually exercised if it is to remain a dormant force. Unfortunately, in modern society what we witness is complete lack of kindness and sympathy between fellow beings. One can only shake one's head and say that just like other cherished values even compassion is getting eroded in the hustle and bustle of the mechanical existence of these times. What remains is material values that look only towards immediate personal gains and in the process rid man of whatever 'humanness' is left in him.

A. On the basis of your reading of the above passage, make notes on it using recognizable abbreviations wherever necessary (minimum four). Supply a suitable title. [4]

B. Write a summary of the above passage in about 80 words. [4]

SECTION-B (WRITING : 30 MARKS)

3. Your school is organizing a summer camp for training students in Cricket and Volleyball. Write a notice for the Scholl notice board of Summer field School, Chandigarh. You are Shamit, Sports Secretary of the Scholl. (50 words) [5]

OR

You are Aaksh/Varsha. You have been invited to attend the wedding of your friend's sister during summer vacation. Respond to the invitation, regretting our inability to attend it (Formal reply) 50 Words

4. In our society we do not give to our women the respect and status that they deserve. Women are stared at, stalked and even molested. We need to change the male's mindset about women. Write a letter in 120-150 words to the editor of a national newspaper giving your views on the problem. You are Omar/Amna, A114, Mall Road, Delhi. (6 Marks)

OR

Write a letter in 120-150 words to the Controller to Examinations, CBSE, New Delhi, suggesting some concrete step to check the use of unfair means during examinations. Sign yourself as Franz Khan, a class XII student of V.B. P school Lucknow.

5. Information technology has brought about a global revolution in all fields; computer-aided education is fast learning the order of day. The market is also flooded with educational CDs and on-line learning. Write an article in 150-200 words expressing your views about AI-aided learning. Can it replace teachers? You are Seema/Samir of K.V., Srinagar.

OR

Your school has been actively promoting anti- bullying campaign among its students. Write a speech in 150-200 words to be delivered in the morning assembly to motivate students to be a part of this campaign, outlining the code of conduct that the student need to observe. You are Shikha/Shikhar of DPS, Noida.

6. The Economics forum of your school is organizing a debate on the motion "The money that is spent on pace programme should instead be used in eliminating poverty from the country." Draft a debate in 150-200 words for or against the motion. Give suitable arguments for your stand.

OR

Write a report in 150-200 words for your school magazine describing the prize distribution ceremony held to honour the academic achievers of class XII of the previous year.

SECTION-C (LITERATURE : 30 MARKS)

Q7. Read the extracts given below.

Reading the bulletin, called after me, "Don't go so fast, bub; you will get to your school in plenty of time!" I thought he was making fun of me and reached little garden all out of breath**.**

Answer the following question:
1. Bub here refers to, ……………. Who was going to school.
2. The speaker was nervous as he did not learn his lessons and was …………….
3. M. Hamel was Bub's teacher who taught him ………………
4. Find an expression from the extract which means 'mocking'.

<div align="center">

OR

</div>

<div align="center">

"Here far from the city we make our roadside stand
And ask for some city money to feel in hand
To try if it will not make our being expand
And give us the life of the moving-pictures' promises.
That the party in power is said to be keeping from us."

</div>

Answer the following questions:
1. The shed is built far from the city (True/ False)
2. They ask for some of the city's taxes to feel it in their hands. (True/False0
3. The kind of life promised to the poor shed owners is one seen in ………
4. By feeling the money in hand, the poor want to know if that would make their progress.

Q8. Answer any five of the following questions in 30-40 words each.
1. Where did Gandhi stay in Muzzafarpur? How does he comment about it?
2. Do you think Sophie had actually met Danny Casey? Why/ Why not.
3. Why are the young trees described as "sprinting" in "My Mother ar sixty six"?
4. What has man single-mindedly focused on and with what purpose?
5. What kind of life did the Crown Prince enjoy till he reached the age of twenty?
6. What precautions were taken for the smooth conduct of Evan's O-Level examination?

Q9. Answer the following question inn 120-150 words.
What made the peddler finally change his ways?
<div align="center">**OR**</div>
Bring out the commonality of theme between thw two accounts that you read in the lesson "Memories of Childhood".

Q10. Answer the following question inn 120-150 words.

"I started writing novels by accident. I had nothing to do one day and so I started." Comment on Umberto Eco's view about the genesis of writing his novels with reference to The Name of the Rose.
<div align="center">**OR**</div>
"To visit Antarctica now is to be a part of the history; to get a grasp of where we have come from and where we could possibly be heading." Comment on this statement.

TIME: 3Hour   **M. M. 80**

General Instructions:

- ➢ All questions are compulsory.
- ➢ The question paper consist of 37 questions divided into four sections A, B, C & D.
- ➢ All questions in section A contain MCQ, VSA type and assertion reason type question carries 1 mark.
- ➢ All questions of section B are short questions, each question carries 2 marks.
- ➢ All questions of section C are short answer type question, each question carries 4 marks.
- ➢ Section D are long questions, each question carries 4 marks.

Choose and write the correct option in the following question:

Q1. If A is a square matrix of order 3 such that $|A|=2$, then the value of $|adj\ (adjA)|$ is
   a. -16   b. 16   c. 0   d. 2

Q2. The value of k using determinant in a ΔABD where A(1,3),B(0,0) and D(k,0) are given and ar (ΔABD)=3sq units is
   a. 2   b. ±2   c. -2   d. 4

Q3. If $x^2+2xy+=42$ then $\frac{dy}{dx}$ is

   a. $\frac{2(x+y)}{x+y2}$ b. $\frac{-2(x+y)}{2x-3y2}$ c. $\frac{-2(x+y)}{2x+3y2}$ d. none of these

Q4. If the curve $ay+x^2=7$ and $x^3=y$, cut orthogonally at(1,1),then the value of a is

   a. 1   b. 0   c. -6   d.6

Q5. The value of integral $\int \frac{dx}{(x+1)\sqrt{2x-3}}$ dx is

   a. $\frac{12}{\sqrt{5}}\tan^{-1}\sqrt{\frac{2x-3}{5}}$ +c   b. $\frac{2}{\sqrt{5}}\tan^{-1}\sqrt{\frac{2x+3}{5}}$ +c   c. $\frac{2}{\sqrt{5}}\tan^{-1}\sqrt{\frac{2x-3}{5}}$ +c   d. $\frac{5}{2}\tan^{-1}\sqrt{\frac{2x-3}{5}}$ +c

Q6. Area of the region bounded by the curve y=sinx between the ordinates x=0,x=π/2 and x-axis is
   a. 2 sq units   b. 4 sq units   c. 3 sq units   d. 1sq units

Q7. The solution of the differential equation $2x\frac{dy}{dx}-y=3$ represents a family of
   a. straight line   b. circles   c. parabolas   d. ellipses

Q8. The family $y=Ax+A^3$ curves is represented by differential equation of degree
   a. 1   b. 2   c. 3   d. 4

Q9. The two vectors $\hat{j}+\hat{k}$ and $3\hat{i}-\hat{j}+4\hat{k}$ represents the two sides AB and AC, respectively of Δ ABC. The length of the median through A is
   a. $\frac{\sqrt{34}}{2}$ b. $\frac{\sqrt{48}}{2}$ c. $\sqrt{18}$ d. none of these

Q10. If a line makes angles π/2, 3 π/4 and π/4 with x,y,z axes, respectively then the direction cosines are
   a. ± (1,1,1)   b. ±(0,$-\frac{1}{\sqrt{2}},\frac{1}{\sqrt{2}}$)   c. ±($\frac{1}{3},\frac{1}{3},-\frac{1}{3}$)   d. ±($\frac{1}{\sqrt{3}},\frac{1}{\sqrt{3}},-\frac{1}{\sqrt{3}}$)

Q11. The maximum value of $Z=4x+3y$ subjected to the constraints 3x+2y≥160, x+2y≥80, 5x+2y≥200 x,y≥0 is
   a. 320   b. 300   c. 230   d. none of these

The following questions consist of two statements Assertion (A) and Reason(R).Answer these questions selecting the appropriate option given below:

a. Both A and R are true and R is the correct explanation for A.
B. Both A and R are true and R is not the correct explanation for A.
c. a is true but R is false.
d. A is false but R is true.

Q12. Assertion (A): if f(x)=

$$\begin{cases} x+1 & \text{if } x \le 1 \\ 3-9x^2 & \text{if } x>1 \end{cases}$$ is continues at x=1 then a=1

Reason: for a continuous function f(x) at x=0 $llim_{x \to a} f(x) = \lim_{x \to a} f(x) = f(a)$

Q13. Assertion (A): The equation of tangent to the curve x=cost, y=sin t at t=π/4 is x+y-√2 =0

Reason(R): Slope of the line parallel to y-axis is not defined.

Solve the following questions:

Q14. Consider the set A= {1, 2, 3 } write the smallest equivalence relation R on A

Q15. Find the principal value of $\sin^{-1} \sin(\frac{2\pi}{3})$

Q16. Differentiate w.r.t x:8^x

Q17. Write the slope of the normal to the curve y=2x²+3sinx at x=0

Q18. Evaluate $\int \frac{x}{1+x^2} dx$.

Q19. Write the integrating factor of the linear differential equation $\frac{dx}{dy}$ +tanyx=sec²y

Q20.Compute P(A/B) if P(B)=0.5 and P(A∩B)=0.32

Section B (carry 2 marks each)

Q21. If f(x)=

$$\begin{cases} ax+1 & \text{if } x \ge 1 \\ X+2 & \text{if } x<1 \end{cases}$$ is continues then find the value of a.

Or

Is the function defined by f(x)=x²-sinx+5 continues at x=π

Q22. Find the points on the curve y=x³ at which the slope of the tangent is equal to the y coordinate of the point.

Q23. Show that the solution of differential equation xdy-ydx=0 represents a straight line passing through origin.
Or

Find the general solution of $\frac{dy}{dx} + \frac{\sqrt{1-y2}}{1-x2} = 0$

Q24.Find the vectors of magnitude 10√3 units that are perpendicular to the plane of vector
    î +2 ĵ +k̂ and - î +3 ĵ +4k̂ ?

Q25. A dice is tossed thrice. Find the probability of getting an odd number at least once.

Q26. Express $\sin^{-1} \frac{sinx+cosx}{\sqrt{2}}$, where −π/4<x<π/4 in the simplest form.

Section c(carry 4 marks each)

Q27. Let f:A→B be a function as f(x)=$\frac{2x+3}{x-3}$,where A=R-{3} and B=R-{2} .Is the function f one-one and on to ? Is f invertible? If yes then find its inverse?

Q28. Evaluate $\int e^x(\frac{2+sin2x}{1+cos2x})$ dx

Or

Evaluate $\int_1^3 |x^2\text{-}2x|$ of x

Q29. Two numbers are selected at random (without replacement) from first 7 natural numbers. If x denotes the smaller of the two numbers obtained. Find the probability distribution of x. Also mean of the distribution?

Or

There are three coins, one is a two headed coin (having head on both the faces, another is biased coin that comes up 75%of the time and the third is an unbiased coin. One of the three coin is chosen at random and tossed. If it shows head what is the probability that it was two headed coin?

Q30. Maximise Ƶ = 3x+2y

Subject to the constraints are x+2y≤10
$$3x+y≤15$$
$$x,y≥0$$

Q31.If $\sqrt{1+x^2}$ +$\sqrt{1-y^2}$ =a(x-a) then prove that $\frac{dy}{dx}$ =$\frac{\sqrt{1-y^2}}{\sqrt{1-x^2}}$.

Or

Differentiate with respect to x: $\sin^{-1}(\frac{2^{x+1}3^x}{1+(36)^x})$

Q32. If a=î+ĵ+ k̂ and b=ĵ- k̂, then find a vector c such that a×c=b and a.c=3

Section D

Q33. If A= $\begin{vmatrix} 2 & 3 & 4 \\ 1 & -1 & 0 \\ 0 & 1 & 2 \end{vmatrix}$ Find A^{-1} hence solve the system of equations

$$x - y = 3$$
$$2x+3y+4z=17$$
$$Y+2z=7$$

Q34. Using integration, find the area of the region.
{(x, y): x²+y²≤1, x+y≥1, x≥0, y≥0}

Or

Using integration, find the area bounded by the curves$y = \sqrt{4-x^2}$,$x^2 + y^2 - 4x = 0$ $and\ the\ x-axis$.

Or

Q35. Show that the rectangle of maximum area that can be inscribed in a given circle is a square.

Or

Show that the height of the cylinder of maximum volume that can inscribed in a cone of height h is $\frac{1}{3}$h.

Q36.Find the vector and Cartesian equations of the plane passing through the intersection of the planes $\vec{r}.(2i + 6j) + 12 = 0\ and\ \vec{r}.(3i - j + 4k) = 0$ which are at a unit distance from the origin.

Pre-Board Examination
2019-2020
XII
Physical Education

Time-3hrs   **MM- 70**

General instructions:

- This question paper contains three sections A, B and C. All sections are compulsory.
- In section A, there are 20 multiple choice questions. Each question carries 1 mark.
- In section B, there are 10 short answer type questions. Each question carries 3 marks.
- In section C, there are 4 long answer type questions. Each question carries 5 marks.

Section A

Q1. Which of the following is not a type of dynamic strength?

A. Maximum Strength   B. Static Strength   C. Explosive Strength   D. Strength Endurance

Q2. Through which method endurance can be developed?

A. Isotonic Exercise   B. Isometric Exercise   C. Interval Exercise   D. Pace Runs

Q3. Which is not an aspect of Big Five Personality Theory?

A. Openness   B. Hostile   C. Extroversion   D. Agreeableness

Q4. Which is not the Jung's classification of personality?

A. Introverts   B. Extroverts   C. Mesomorph   D. Ambiverts

Q5. _____ Muscle is not involved in running.

A. Glutes   B. Trapezius   C. Calves   D. Quads

Q6. In which type of fracture a bone is broken and damages the internal organs?

A. Simple fracture   B. Compound fracture   C. Complicated fracture   D. Greenstick fracture

Q7. What happens when a ligament over stretched?

A. Sprain   B. Strain   C. Contusion   D. Bruises

Q8. Which one of the following is not a gender difference in male and female based on anatomical parameters?

A. Centre of Gravity   B. Pelvic Region   C. Adiposity   D. Muscle Strength

Q9. _____ is not a long term effect of exercise on cardio-vascular system.

A. Increase in cardiac output   B. Increase in blood volume   C. Increase in blood pressure
D. Quicker recovery rate

Q10. Which test measures minimum muscular strength of a person?

A. Barrow's three item test   B. Kraus-Weber test   C. AAHPER test
D. Physical Best test

Q11. Which test is not a part of Rikli and Jones senior citizen fitness test?

A. Chair Stand Test   B. Arm Curl Test   C. Back Scratch Test   D. Harvard Step Test

Q12. Which is not a reason for less participation of women in sports?
A. Lack of Time   B. Lack of Self Confidence   C. Eating   D. Lack of Fitness Movements

Q13. In which type of deformity knees touches each other?
A. Bowlegs   B. Flat foot   C. Knock Knees   D. Scoliosis

Q14. _____ occurs when our spine bends laterally?
A. Scoliosis   B. Kyposis   C. Lordosis   D. Bow legs

Q15. What is the right age of middle childhood?
A. 11 to 12 years   B. 3 to 10 years   C. 3 to 6 years   D. 7 to 10 years

Q16. Which of the following factors does not affect motor development?
A. Biological factors   B. Nutrition   C. Opportunities   D. Weight training

Q17. _____ is related to our sensory processing.
A. ADHD   B. ASD   C. SPD   D. ODD

Q18. In which disorder an individual gets caught in a cycle of obsessions?
A. ODD   B. ADHD   C. OCD   D. SPD

Q19. What is the main function of Protein?
A. Energy source   B. Improves eyes vision   C. Body building   D. Improve bone density

Q20. There are _____ types of tournaments.
A. Six types   B. Two types   C. Eight types   D. Four types

Section B

Q21. Briefly explain any three objectives of extramural.
Q22. Discuss any three pitfalls of dieting.
Q23. Discuss the benefits and procedure of pawanmuktasan.
Q24. Briefly explain about sensory processing disorder SPD.
Q25. Mention the corrective measure related to knock knee and bow legs.
Q26. What do you mean by female athletic triad? Discuss its symptoms.
Q27. Explain three test of Kraus-Weber test.
Q28. Elaborate any three physiological factors determining flexibility.
Q29. What do you mean by laceration? How can you manage laceration?
Q30. Explain any three techniques of extrinsic motivation.

Section C

Q31. What do you mean by speed? Elucidate the methods of improving speed.
Q32. What are the various types of friction? How is friction advantageous or disadvantageous in the field of games and sports?
Q33. Explain oxygen – intake and oxygen uptake. Explain the effects of exercise on the respiratory system.
Q34. Elucidate the reasons of low participation of women in sports and games.