Annual Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 100**

Q.1   Name the Accounting Voucher to be prepared for furniture purchased Rs 5,000 on credit.   1

Q.2   Which value is the most important for an accountant?   1

Q.3   Concept of …………………..requires that the same accounting methods should be used from one accounting period to the next.   1

Q.4   Give the formula to calculate the Annual depreciation as per straight line method ?   1

Q.5   If closing stock is given in Trial Balance, it is shown on the……………side of ………………….   1

Q.6   A starts his business on 1st April 2016 with a capital of Rs 5,00,000, On 31st March 2017 his assets were Rs 6,50,000 and liabilities were Rs 50,000. Find out profit?   1

Q.7   Write any Three difference between Gross Profit and Net Profit ?   3

Q.8   Calculate closing stock and cost of goods sold :
Opening stock 30,000 ; Sales 96,000 ; Carriage inward 6,000; Return inward 6,000; Purchases 60,000; Purchases return 5,400; Gross Profit 40% on Sales.   3

Q.9   Prepare accounting equation from the following: 3
(a) Started business with cash Rs. 2,00,000
(b) Purchase goods for cash 40,000 and on credit 60,000
(c) Sold goods for cash costing 20,000 and credit costing 30,000 both at a profit of 20%

Q.10   The following particulars to the business of Ronit on 31-3-2016 prepare B.R.S.   3
(i)   Cheque issued not presented for payment 1,03,500
(ii) Cheque paid in to bank but not yet collected 20,000
(iii) Interest credited by the bank not entered in the cash book 4000
(iv) Bank charges debited in the pass book but not entered in the cash book 300
(v) Credit balance as shown by the pass book 3,00,000

Q.11   From the following particular calculate amount of subscription to be credited to Income and Expenditure account for the year ended 31-3-2016:-   3
(i)   Subscription in arrears on 31-3-2015 Rs 500
(ii) Subscription received in advance on 31-3-2015for the year ended 31-3-2016 Rs 1100
(iii) Total subscription received during 2015-2016 Rs 35,400 [including Rs 400 for 2014-15; Rs 1200 for 2016-17 and Rs 300 for 2017-18]
(iv) Subscription outstanding for 2015-16 Rs 400.

Q.12   Prepare Two Column Cash Book from the following transaction   3
Jan 1   Cash in Hand 30,000 and Bank Overdraft 10,000
Jan 5   Received cheque from Ram Rs 5,000
Jan 7   Deposited Ram's cheque in to bank
Jan 10 Paid to sohan by cheque 3,000
Jan 20 Withdrew from bank for office use 500 and personal use 200
Jan 25 Received a cheque from Harish 1200
Jan 31 Endorsed Harish's cheque to Girish
Jan 31 Ram's cheuqe dishonoured

Q.13   Define expenditure ? Explain the different types of expenditure ?   4

Q.14   Journalise the following transactions   4
(i) An old machine with the book value of Rs 2,20,000 is exchanged for a new machine of Rs 5,00,000. The old machine is valued at Rs 75,000 for exchange purpose by Machine Tools Ltd,
(ii) A cheque from a customer amounted to Rs 8760 deposited in the bank was returned dishonoured.
(iii) Paid landlord Rs 15,000 for rent. One third of the premises is occupied by the proprietor for his own residence.
(iv) Goods costing Rs 9150 given as charity [sales price 10,000]

Q.15 Rectify the following errors 4
(i) Goods of the value of Rs 1920 returned by Mr. Bheem were entered in the purchase book as Rs 920 and posted there from to his credit as Rs 900
(ii) A dishonoured bill receivable from Amrish for Rs 9000, returned by the Bank with which it was discounted, had been rightly credited to bank account but debited to Bill Receivable account.
(iii) A cheque of Rs 1800 received for loss of stock by fire from Insurance company is omitted to be recorded in the books of accounts.
(iv) Depreciation on machine Rs 2000 is not posted to depreciation account.

Q.16 Prepare correct Trial Balance from the following Trial Balance in which there are certain mistakes:- 4

	Debit	Credit
Cost of goods sold	1,50,000	………
Closing Stock	…………..	40,000
Debtors	…………..	60,000
Creditors	………….	30,000
Fixed Assets	50,000	.. ……..
Opening Stock	60,000	……….
Wages	…………	20,000
Sales	…………..	2,00,000
Capital	90,000	……..
TOTAL →	**3,50,000**	**3,50,000**

Q.17 Compute the amount of sports material consumed during 31st December 2014 to be debited to Income and Expenditure Account from the following information and show in balance sheet. 4

Particular	1-1-2014	31-12-2014
Stock of Sports Material	8,500	9,300
Advance paid to suppliers	15,000	19,500
Due to suppliers	11,500	9,400

Paid purchase for sports material during the year 91,600

Q.18 Ashok has the following balances as on 1st April 2003 6
Machinery Account   2,00,000   Provision for Depreciation   90,000
The company charged depreciation @10% per annum on Straight Line Method. Accounts are closed on 31st March every year. On 1st October 2003 a part of machinery purchased on 1st July 2000 for Rs 40,000 was sold for Rs 18,400 and on the same date a new plant was purchased for Rs 1,00,000. Prepare Machinery Account and Provision for Depreciation A/c for the year ended 31st March 2004.

Q.19 Amit a trader, does not keep proper books of account. However, he furnishes you the following particulars 6

	31.3.2016	31.3.2017
Cash at bank	4,500	3,000
Cash In hand	300	4,000
Stock in Trade	40,000	45,000
Debtors	12,000	20,000
Office Equipments	5,000	5,000
Creditors	30,000	20,000
Furniture	4,000	4,000

During the year Amit introduced Rs 6000 as further capital and withdrew Rs 4,000 as drawings. Write off depreciation on furniture at 10% and office equipments at 5%. Create provision for doubtful debts on debtors @5%. Prepare a statement showing the Profit and Loss made by him for the year ended 31st March 2017.

Q.20   Rashmi sold goods to Poorva on 1st March 2017 for Rs 68,000 and drew two bills of exchange of the equal amount upon Poorva payable after 3 months. Rashmi immediately discounted the first bill with her bank at 12% p.a. The bill was dishonoured by Poorva and bank paid Rs 55 as noting charges. The second bill was retired on 4th May 2017 under a rebate of 6% p.a. with mutual agreement. Journalise the above in the books of Rashmi and Poorva.   6

Q.21   [A]   Explain the qualitative characteristics of accounting information

        [B]   Explain the value involved in following Accrual concept.   4+2=6

Q.22   Explain the following concepts   6

        1- Business Entity Concept   2- Cost Concept   3- Money Measurement Concept

Q.23   The following balances were extracted form the books of Mr. Pratik as on 31st March 2017

Trial Balance   8

Name of Account	Debit [Rs]	Credit [Rs]
Stock	34,000	
Purchase	3,70,000	
Sales		5,50,000
Selling expenses	35,000	
Capital		2,50,000
Creditors		60,000
Return Inwards	4,000	
Factory Fuel and power	16,000	
Salaries and wages	47,000	
Interest on Bank Loan	2,000	
Commission		3,000
Provision for Doubtful debts		3,000
Bills Payable		12,000
Bank Loan		20,000
Bills Receivable	25,000	
Fire Insurance Premium	2,000	
Return outward		2,000
Debtors	87,000	
Machinery	1,00,000	
Building	1,40,000	
Bad debts	2,000	
Drawing	30,000	
Cash in Hand	6,000	

(i) Stock on 31st March was Rs 49,400

(ii) Credit Purchase of Rs 1000 and credit sales of Rs 3000 were not recorded in books

(iii)Fire insurance premium is prepaid 500 ; outstanding interest on bank loan is 400; and accrued commission is 1000

(iv)Provision for doubtful debts is to be maintained at 5% on debtor

(v) Charge depreciation 5% on Building and 10% on machinery p.a.

(vi)Provide for Manager commission @ 10% on net profit, after charging such commission. Prepare Trading Account, Profit and Loss Account and Balance sheet.

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

The following balances were extracted form thee books of Mr Anil on 31st March

Name of Account	Dr [Rs]	Cr [Rs]
Stock	6,800	
Purchases	74,000	
Sales		1,10,000
Selling expenses	7,000	
Creditor		12,000
Capital		50,000
Carriage Inward	800	
Factory Fuel	3,200	
Bills payable		2,400
Bank loan		4,000
Bills Receivable	5,000	
Fire Insurance Premium	400	
Return outward		400
Debtor	17,400	
Machinery	20,000	
Building	28,000	
Salary and Wages	9,400	
Interest on bank loan	400	
Commission Received		600
Provision for doubtful debts		600
Bad debts	400	
Drawings	6,000	
Cash Balance	1,000	
Accrued Commission	200	

(i) Stock on 31st March 2017 was of Rs 9,880

(ii) No entry has been passed in the books of accounts for credit purchases of furniture Rs 500

(iii)Fire insurance premium of Rs 300 is prepaid and outstanding interest on bank loan is Rs 400

(iv)Provision for doubtful debts is to be maintained at 5% on debtors

(v) Charge depreciation 5% on Building and 10% on Machinery per annum

(vi)Provision for commission to manager 10% on net profit before charging such commission.

Q.24   From the following particulars relating to Holy Hospital prepare Income and Expenditures Account for the year ended on 31st December2017 and balance sheet on that date. Receipts and Payment Account for the year ended on 31st Dec. 2017   8

<div align="center">Receipts and Payment A/c</div>

Receipts	Amount	Payments	Amount
To Balance b/d	4,000	By Salary	20,000
To Subscription	38,500	By Medicines	40,200
To Interest on Investment @8% p.a. for full year	8,000	By Doctor's Honorarium	10,400
To Grant-in-Aid	20,000	By Equipment	20,000
To Donation for Building	30,000	By Printing and Stationery	6,000
		By General Expenses	7,400
To Life Membership fees	6,000	By Insurance Premium	4,000
To Donation	12,000	By Balance c/d	10,500
TOTAL	**1,18,500**		**1,18,500**

Other information	1-1-2017	31-12-2017
Subscription Due	300	500
Advance Subscription received	350	450
Stock of Medicines	9,800	14300
Equipment	15,000	31,400
Building	50,000	47,000

OR

From the following Receipts and Payment Account of Mohan club and from the information supplied, prepare Income and Expenditure Account for the year ended 31st March 2016 and Balance sheet as at that date

Receipts and Payment A/c

Receipts	Rs	Payments	Rs
To Balance b/d	35,000	By Salaries	1,40,000
To Subscription		By General Expenses	30,000
2014-15 25,000		By Electricity Expenses	20,000
2015-16 1,00,000		By Books	50,000
2016-17 20,000	1,45,000	By Newspapers	40,000
To Rent	70,000	By Balance c/d	20,000
To Surplus from Entertainment	40,000		
To Sale of old newspaper	10,000		
	3,00,000		**3,00,000**

(i)   The club has 50 members each paying an annual subscription of Rs 2500. Subscription outstanding on 31st March 2015 were to the extent of Rs 30,000

(ii) On 31st March 2016, Salaries outstanding amounted to Rs 10,000, Salaries paid in 2015-16 included Rs 30,000 for the year 2014-15

(iii) On 1st April 2015 the Club owned Building valued at Rs 10,00,00; furniture worth Rs 1,00,000 and books Rs 1,00,000.

ORAL + PROJECT   →   **10**

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Annual Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 100**

General Instructions:-

SECTION – A   READING   20
SECTION – B   WRITING & GRAMMAR   30
SECTION – C   LITERATURE & LONG READING   30
SECTION – D   LISTENING SKILLS & SPEAKING SKILLS   20

SECTION –A (READING)

Q1. Read the passage given below and answer the following questions: **12 Marks**

1. The discovery that language can be a barrier to communication is quickly made by all who travel, study, govern or sell. Whether the activity is tourism, research, government, policing, business, or data dissemination, the lack of a common language can severely impede progress or can halt it altogether. 'Common language' here usually means a foreign language, but the same point applies in principle to any encounter with unfamiliar dialects or styles within a single language. 'They don't talk the same language' has a major metaphorical meaning alongside its literal one.

2. Although communication problems of this kind must happen thousands of times each day, very few become public knowledge. Publicity comes only when a failure to communicate has major consequences, such as strikes, lost orders, legal problems, or fatal accidents – even, at times, war. One reported instance of communication failure took place in 1970, when several Americans ate a species of poisonous mushroom. No remedy was known, and two of the people died within days. A radio report of the case was heard by a chemist who knew of treatment that had been successfully used in 1959 and published in 1963. Why had the American doctors not heard of it seven years later? Presumably because the report of the treatment had been published only in journals written in European languages other than English.

3. Several comparable cases have been reported. But isolated examples do not give an impression of the size of the problem. In the English speaking scientific world, for example, surveys of books and documents consulted in libraries and other information agencies have shown that very little foreign language material is ever consulted. Library requests in the field of science and technology showed that only 13 percent were of foreign language periodicals.

4. The language barrier presents itself in stark form to firms who wish to market their products in other countries. British industry, in particular, has in recent decades often been criticised for its linguistic insularity – for its assumption that foreign buyers will be happy to communicate in English, and that awareness of other languages is not therefore a priority. In the 1960s, over two-thirds of British firms dealing with non-English speaking customers were using English for outgoing correspondence; many had their sales literature only in English; and as many as 40 per cent employed no one able to communicate in the customer's languages.

5. The criticism and publicity given to this problem since the 1960s seems to have greatly improved the situation. Industrial training schemes have promoted an increase in linguistic and cultural awareness. Many firms now have their own translation services; to take just one example in Britain, Rowntree Mackintosh now publish their documents in six languages (English, French, German, Dutch, Italian and Xhosa). Some firms run part-time language courses in the languages of the countries with which they are most involved; some produce their own technical glossaries to ensure consistency when material is being translated. It is now much more readily appreciated that marketing efforts can be delayed, damaged, or disrupted by a failure to take account of the linguistic needs of the customer.

6. The changes in awareness have been most marked in English speaking countries, where the realisation has gradually dawned that by no means everyone in the world knows English well enough to negotiate in it.

A 1.1 **On the basis of your reading of the passage, answer the following questions by choosing the best of the given choices.** **6**

(a) What are the major effects of the language barrier on the progress of a nation?
    (i) It can slow down or stop progress.   (ii) It can affect tourism.
    (iii) It can affect the foreign exchange situation. (iv) It can affect health services.

(b) When is communication failure publicised?
    (i) when the country's revenues fall   (ii) when a war breaks out
    (iii) when major consequences occur   (iv) all the above

(c) What did library requests in the field of science show?
    (i) Many people consulted foreign language material .
    (ii) 13 per cent requests were for foreign language periodicals related to science and technology.
    (iii) Very less people consulted periodicals in English.
    (iv) A large number of journals are written in European languages.

(d) Which of these has not improved the problematic situation of language barrier?
    (i) Industrial training scheme
    (ii) Firms having their own translation services
    (iii) Production of technical glossaries
    (iv) Neglecting the individual linguistic needs

(e) Find the word from the passage that is an exact antonym of the word 'native' (para 2).
    (i) common   (ii) foreign   (iii) translated   (iv) customer's

(f) Find the word from the passage that is exact synonym of the word 'secluded' (para 3).
    (i) combined   (ii) united   (iii) specific   (iv) isolated

A 1.2 **Answer these questions briefly.** **6**

(a) What is the meaning of 'Linguistic insularity'?
(b) What evidence has been collected from the surveys of libraries in the English-speaking scientific world?
(c) How have British companies tried to solve the problem of the language barrier since the 1960s?
(d) How are some companies trying to satisfy the linguistic needs of customers? Mention any two steps taken.
(e) Find the word in the passage which means the same as 'hinder' (para 1).
(f) Which word in para 4 is opposite to 'praised'?

Q.2 **Read the passage given below and answer the following questions:** **8 Marks**

1. During the early years of the Second World War, the British in India found it practical to start small units to service damaged war equipment and make small components which would have been difficult to import. This Technical Unit of the Army became the nucleus for the present large Production Department of Defence and the Defence Research and Development Organisation (DRDO). In recent years, DRDO has become the focal point of our programme of defence production.

2. The wars with China and Pakistan gave a great impetus to self-reliance and a series of defence laboratories were created to manufacture as many weapons as possible. It is difficult to believe that from these small beginnings, the DRDO now produces highly advanced armour plates and electronic gadgets for our latest tanks, and is in the forefront in the production of small arms, explosives for army, navy and air force. The most significant of these developments is the manufacture of the *Prithvi* and *Agni* missiles. *Prithvi* has a range of 300-500 km, and *Agni,* of 2500-2800 km.

3. Mnay individuals have contributed to important programmes that have become the backbone of our pure and applied sciences. The Indian Institute of Science in Bangalore was founded by the visionary Jamshedji Tata as early as 1909. Surprisingly, its original focus was in the applied fields of chemistry and electrical engineering. The inclusion of the pure sciences came in at the time of Prof. Raman. It is now a centre for both aspects of knowledge, and has made important contributions in the advanced fields of molecular biology, solid-state physics and structural chemistry.

4. Meteorology and seismology are old fields of research in India, dating back to the late 18th century. During the last 50 years, the spread of meteorological information has opened up new possibilities, which have a bearing on the impact of science of direct benefit to the people. The space programme has made meteorological operations more dependable, but it is not yet possible to predict the path of cyclones with quantitative precision. But with the help of cloud studies through satellites and keeping the coastal people promptly informed, many lives have been saved. It is with all these technologies that it has been possible to set up a meteorological station at Antarctica.

5. Perhaps, the greatest contribution of science to the country is the modernisation of agriculture. It is surprising that a country, whose methods of agriculture were no different to what they were a thousand years ago, and where famines had become a way of life, should absorb modern biochemical technology in a matter of years and also become self-sufficient in food. The modern farmer now talks of new seeds, mutants and agrochemicals with a familiarity which is difficult to believe.

   These changes are due not only to farmers but also to agro-scientists and visionaries (like C. Subramaniam) who made it their life work to demonstrate the new possibilities to a community that had been neglected for centuries. The availability of new mutants through radiation done at the Bhabha Atomic Research Centre is beginning to transform certain types of crops like groundnuts, and radiation uses have become money-spinners to farmers.

6. Medical practice has reached very high levels in India and has kept pace with developments abroad, especially in bigger cities. Heart and brain operations and transplants have become common place and the instrumentation made indigenously for medical practice is constantly improving. However, in the rural sector, much remains to be done.

A 2.1 Make notes on the passage in a suitable format using recognisable abbreviations wherever necessary. Give a suitable title to the passage. **5**

A 2.2 Write a summary of the passage based on your reading. **3**

SECTION -B (WRITING & GRAMMER)

Q. 3 You are Manan / Mani, secretary of the History Club of K.V. Sr. Sec. School, Badodhra. Draft a **notice** in not more than 50 words informing the students of class XI and XII about a proposed tour to Rajasthan during the coming summer vacations. **4**

OR

You are Suyashi / Utkarsh, living at M-48, Wajirpur, Delhi. You want to sell off your HTC mobile phone. Draft an **advertisement** for the classified columns of a national daily giving its details and the price expected.

Q. 4 You are Riyazzuddin / Riya, the Secretary of your school sports club. On behalf of the school Principal, write a **letter to the Sales Manager** of Delhi Sports Store, Murad Nagar, placing an order for sports equipment – cricket bats, balls, volley balls, rackets, etc. **6**

OR

You are Supreet / Supreeti, living at 426, Ambedkar Nagar, Jaipur. You are deeply concerned at the misuse and poor maintenance of the public parks in your city. Write a **letter to the editor** of the Hindustan Times, expressing your concern and suggesting some measures to improve the condition of the parks.

Q.5 Tourism is the fastest growing industry all across the world. A developing country like India, can benefit a lot from it. Besides the facilities, the attitude of the people, especially the hoteliers, guides, drivers, etc. Plays an important role in promoting tourism. Write an **article** giving yours views with suggestions. **10**

OR

The craze for junk food is at a rise among the children. You are worried about its impact on health. You decide to deliver a **speech** in the morning assembly of your school on the topic 'Say No to Junk Food.' You are Rachit / Rachita of class XI B.

Q.6 The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction in your answer sheet. Remember to underline the word that you have supplied: **6× ½ = 3**

	Incorrect	Correct
Dr Carver was an American Negro slave,		
who by the dint of his ability becomes a (a)	....	....
scientist or educator of worldwide fame. (b)	....	....
A national monument had now been erected (c)	....	....
to honour him. This monument has been build (d)	....	....
at his birthplace in the United States of America.		
Carvers life and achievements support the American (e)	....	....
saying, "You couldn't keep a great man down." (f)	....	....

Q.7 Complete the given paragraph with the most appropriate word. **6×½=3**
Martin Cooper (a) .... Motorola researcher and executive (b) …………........ an inventor of (c) .... first mobile phone in 1973. There are (d) .... categories of mobile phones ranging from basic phones and feature phones (e) .... as music phones, camera phones to smart phones which (f) .... be recharged.

Q.8 Rearrange the words or phrases given below to make meaningful sentences. **1 x4 = 4**
(a) began to / the station / cards / the train / when / play / whistled off / we / from
(b) of smoke / outside / a wing / there / curling / the kitchen / out of / was / the chimney
(c) they / in the hall / for / two hours / watching / had been / television
(d) blessings / you / all / on / may / showered /be

SECTION -C (LITERATURE & LONG READING)

Q.9 Read the lines given below and answer the questions: **3**

And make pure and beautify it;
(For song, issuing from its birth-place, after fulfilment, wandering
Reck'd or unreck'd, duly with love returns.)

(a) Name the poem and the poet.
(b) What is being talked about in these lines?
(c) 'recked' or 'unreck'd' means ....

Q.10 Answer the following questions briefly. **(Any 3)** **3 x 3 =9**
(a) Why does the father say he does not understand his son?
(b) what were the findings of the CT scan of Tut's mummy?
(c) Why did the narrator of the story want to forget the address?
(d) What answer did the rain give to the poet about its origin?
(e) How did Albert leave his school where he had spent five years?

Q.11 "What causes endless anguish is the fact that laws are never respected nor enforced in India", says Nani Palkhivala, the author of 'The Ailing Planet : The Green Movements Role'.
What is your opinionon this issue? How has their attitude towards law affected the lives of Indians? Write an article of about 120-150 words expressing your views. **6**

OR

What do you think makes "The tale of Melon City" interesting and edifying?

Q.12 The antics of the Ghost are amusing as well as pathetic. Do you agree? Give reasons for your answer. Answer in about 120-150 words. **6**

OR

Why did Mrs. Otis offer doctor Dobell's tincture to the ghost? How did the ghost respond to her?

Q. 13 Describe the appearance of the Canterville ghost as the Headless Earl. **6**

OR

Why did Virginia show pity on the Canterville ghost, when she saw him in the Tapestry Chamber?

SECTION – D (LISTENING SKILLS & SPEAKING SKILLS) **20**
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Annual Examination 2017 – 18

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

Q.1   Why do Nand and Nor Gates called Universal gates. Explain also draw circuit diagram for the following using NAND and Nor gates.

   (i)   A′BC+A′B′C′ +AB′C′   (ii)   (A+B+C′).(A′+B+C).(A′+B′+C′)   2+1½+1½=5

Q.2   State and verify De Morgan's law using algebraic method.   4

Q.3   What do you mean by Principle of Duality?   2

Q.4   Minimize following Boolean expression using K-Map.

   (i)   F(A,B,C,D)= π (0,1,2,3,7,8,9,14,15)   (ii)   F(A,B,C,D)= Σ(1,2,3,4,7,8,9,11,13,14,15) also draw circuit diagram for the simplified equation.   2+2+1+1=6

Q.5   Define →   (i)   Cardinality   (ii) Inline function   (iii) Default argument function
                     (iv)   Cartesian product operation   (v) Tuple   1+2+2+2+1=8

Q.6   (i)   Write sql queries for the following using Tables: 4
      (a)   To display FIRST NAME, LAST NAME of teachers teaching computer.
      (b)   To count number of PG T's.
      (c)   To display FirstName, Total salary of all PGT's where Total salary is salary+Bonus.
      (d)   To display sum of salary of all TGT's.

Table Teacher

T_ Id	First Name	Last Name	Address	Subject
005	Rahul	Agarwal	111, Nehru Nagar	Computer
101	Meena	Gupta	Ashok Nagar	Economics
106	Pankaj	Sharma	Lohia Nagar	Physics
109	Radha	Sharma	New Street	Hindi
135	Rachit	Puri	Rohini	Chemistry
140	Anita	Singh	South Ext.	Chemistry
205	Sunil	Pal	Lok Vihar	Maths

Table Salary

T_Id	Designation	Salary	Bonus
005	PGT	10500	2000
101	PGT	9500	1800
106	PGT	9000	1500
109	TGT	8000	1200
135	PGT	8500	1800
140	PGT	8250	1400
205	TGT	7000	1200

   (ii)   Give Output for the following Queries :
   (a) SELECT DISTINCT DESIG FROM SALARY;
   (b) Select DESIG, Max (Salary) From Salary Group by DESIG;
   (c) Select T.FIRSTNAME, S.Salary From Teacher T, Salary S where S. DESIG= "TGT" and
       T.T_Id= S.T_Id;   2

Q.7   Explain type conversion with example.   1½+1½=3

Q.8   Give differences between call by value and call by reference.   4

Q.9   Rewrite the following programs after removing the syntactical errors (if any) underline each correction :   2

   (i)   # include[eostream.h]
                Structure Swimmingclub
         {   int memnumber;
                char memname (20);
                char memtype="LIG";
         };
                void main ( )

```
{        Swimmingclub P1,P2;
         cin>>memnumber.P1;
         cont<<"membername";
         cin>>Pl.membername;
         Pl.memtype= "HIG"; P2=P1;
         cin<< "membernumber" <<P2member;
         cin<< "membername" <<P2memname;
         cin<< "member type" <<P2memtype;
}                                                          2
```

(ii)
```
# incluce (eostream_h)
?Including (conio_h)
void Main ( )
{        int a,b,name 1;
         cin>>a<<b<<name1;
         gets (name1);
         for (i=0;i<=10;i++)
         cont <<name1 (i);
}
```

(iii)
```
For (i=0;J=;Jk=0;k<5;k++,i++;j++)                          2
         cont<<k+ i×j;
         k=k – 5;
         cont <<Ajmer is good ciry;
getch ( )
}
```

(iv)
```
int sum (int a, int b)                                     2
{        return (a+b);
         a=a+5;
         b=b–5;          }
void main ( )
}        a=5;
         b–7
         sum ( a,b);
         cont <<a+b
{
```

Q.10 (i) switch (n)   2½
```
{                case 1 :
                 cont<< "one";
                 case 2 :
                 cont<< "Two";
                 case 3 :
                 cont<< "three";
                 break;
                 case 4 :
                 cont<< "Four";
                 default :
                 cont "wrong choice";
}
         Find output is the value of n is
         (a)1, (b) 2, (c) 3, (d) 4, (e) 5
```

(ii)
```
              void main ( )                                    3
      {       int a [ ]  = { 1,2,3,4,5,6,7} i, j;
                   a [ 0 ] =3;
              for ( i=0; i<3; i ++)
              a [i]-a[i] +2;
              a[3] = a[3]+10;
              j:10;
              for (i=0;i<=5; i+=2)
              cont <<a[i];
      }
```
(iii)
```
              void abc (int a, int b)                          3
      {       a=a+5;
              b=b+3;
              cout<<a<<b<< endl;
      }
              void main ( )
      {       int a,b,c;
              a=5;
              b=4;
              cout<<a<<b;
              abc (a,b);
              cout <<a<<b;
      }
```

Q.11   Differences :   1+2+2=5
   (i)   Impact printer v/s Non impact Printers
   (ii)   Array   v/s structure
   (iii)   Const function v/s const variable

Q.12   Write programs for the following :   3
   (i)   WAP to take two strings from the user. Calculate the length of both strings copy the longer in
           another string and display that.
           eg.   (a)   ="Harshit",
                  (b)   "Jain" then a will be copied to C and C will be "Harshit" and
                         C string will be displayed on screen.
   (ii)   WAF to take a structure variable as an argument (student data) display the record by increasing the
           marks by 10.   3
           Like →   Name
                       Class
                       Add.
                       Marks
   (iii)   WAP to add two arrays and display the sum after storing in third array.   2
   (iv)   Write a program to print sum of a digit.   2½

****

Q.25 Describe the chemiosmotic production of ATP?

OR

Draw a well labeled diagrammatic representation of TCA cycle.

Q.26 (i) Study the given structure carefully and label the parts given as A, B, C, D & E.

(ii) Give one major function of each of these.
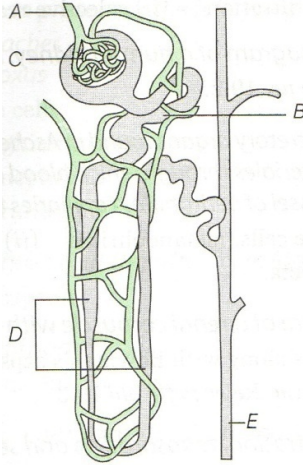
OR

Give a brief account of the counter - current mechanism?

*****

Annual Examination 2017 – 18

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

Section – A   **1×5=5**

Q.1 Provide appropriate technical term :
(i) Free floating form of cnidaria
(ii) stinging organ of Jelly fishes

Q.2 In Alstonia the phyllotaxy is called whorled. Why?

Q.3 Why is cellulose considered as a homopolymer?

Q.4 Meiosis is essential in sexually reproducing organisms. How?

Q.5 Beetroot is often known as long day plant. Explain why?

Section – B   **2×5=10**

Q.6 Draw a well labeled diagram of Bacteriophage?

Q.7 Vascular tissues are not present in bryophytes. Then how the conduction of water & food takes place?

Q.8 While estimating the age of tree, what will you observe on the transverse section of its trunk?

Q.9 (i) Which cell organelles are referred to as sucidial bags?
(ii) Why are they given this name?

Q.10 Differentiate between the apoplast and symplast pathways of movement of water in plants? (Any Two)

Section – C   **3×12=36**

Q.11 Describe transpiration pull model of water transport in plants. What are the factors influencing transpiration? How is it useful to plants?

Q.12 Describe two important functions of each of the element P, Fe & Zn in green plants. Mention deficiency symptoms of any two of these elements.

Q.13 In what kind of plants do you come across kranz anatomy. To which conditions are those plants better adapted? How are plants better adapted than the plants, which lack this anatomy?

OR

The diagram given below show stages in the light independent reactions of photosynthesis. Answer the following :
(i) At which stage NADPH is oxidized?
(ii) What are A, B and C?
(iii) At what stages ATP is converted into ADP?
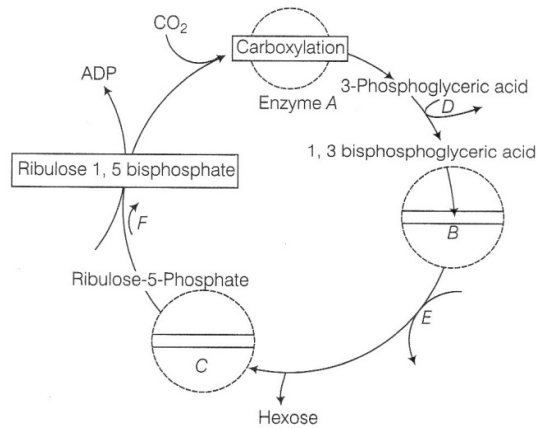
Q.14 Discuss the respiratory pathway is an "Amphibolic pathway".

Q.15 Fill in the blanks A to F in the different columns of the table given below :

	Enzyme	Site of Action	Substrate	Product of Action
1.	Salivary amylase	Mouth & stomach	**A**	Maltose
2.	**B**	Stomach	Proteins	Proteases & Peptones
3.	Trypsin	**C**	Proteins, Peptones & Proteoses	Dipeptides
4.	Lipase	Small Intestine	Fats	**D**
5.	**E**	Small Intestine	Nucleic acid	Nucleotides & Nucleosides
6.	Lactose	Small Intestine	**F**	Glucose & Galactose

Q.16 Write the role of diaphragm & intercostals muscles in the inspiratory process?

Q.17 (i) Write a short note on ECG?

(ii) Define a cardiac cycle & cardiac output?

Q.18 (i) Draw a simple diagram of a human kidney. Label any six parts.

(ii) Where do ultrafiltration, reabsorption & secretion occur in a nephron?

Q.19 What are the different types of movements exhibited by the cells of human body?

Q.20 Explain the transmission of nerve impulse along a nerve fibre?

Q.21 How does progester one function in a human female?

Q.22 (i) Name the stages and type of cell division represented in A & B respectively?
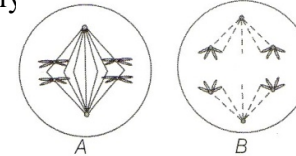
(ii) Also explain any one of them.

Section – D   1×4=4

Q.23 Vikas student of class XI had interested in physical exercises and he also used to participate in body building competitions. One day, he visited a gym where the gym trainer suggested him to consume muscle building pills available in the market and also gave him a sample of such pills. Vikas showed that sample to his Biology teacher, who after exam found it to be rich in proteins and said him that he should not take them at this age and should consult a doctor before taking anything.

(i) What are the building blocks of proteins?

(ii) What is the importance of amino acids in an organism?

(iii) What is your opinion about muscle building pills available in the market?

(iv) What values are shown from teacher's character?

Section – E

Q.24 (i) Define a taxon.

(ii) What is meant by taxonomic hierarchy?

(iii) Give a flow diagram from the lowest to highest category for a plant and an animal.

(iv) What happen to the number of individuals as we go up the taxonomic hierarchy?

(v) What happen to the number of shared characters as we go up the taxonomic hierarchy?

OR

List out the important characteristics of bacteria with diagram.

Q.24 (i)   Draw the structure :   1

(a)   3,4,4,5 – Tetramethylheptane

(b)   5 – Ethyl – 3 – Methylheptanal

(ii)   Which is having more boiling point and why? Butane or
       2 – Methylpropane.   1

(iii) Write the following reactions :   3
       (a) Ozonolysis   (b) Friedel Kraft acylation reaction
       (c) Wurtz reaction

OR

(i)   Explain Geometrical Isomerism and its type with
       example.   2

(ii)   How can we prepare alkene from Lindlar's catalyst.   1

(iii) Define Huckel Rule.   1

(iv)   Write reactions :
       (a) Friedel Craft alkylation (b) Sulphonation

Q.25 (i)   Draw the structure of C_2H_2, SF_6, NH_3.   3

(ii)   Explain Fajan rule.   2

OR

Explain Hybridisation and its various types.   1+4=5

Q.26 (i)   Explain the various quantum numbers.   3

(ii)   Define spectrum and explain its types.   2

OR

(i)   Explain the various rules following during filling of
       electrons in orbitals.   3

(ii)   Explain Dual behavior of matter and Heisenberg
       Uncertainty principle.   2

*****

Annual Examination 2017 – 18

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

General Instructions:-
Q. No. 1 to 5 (1 Mark each),   Q. No. 6 to 10 (2 Marks each),
Q. No. 11 to 22 (3 Marks each), Q. No. 23 Value Based (4 Marks)
Q. No. 24 to 26 (5 Marks each)
Attempt all questions

Q.1   Why Rutherford has taken gold foil for his experiment?

Q.2   Define Lattice enthalpy.

Q.3   Define Ionization Enthalpy.

Q.4   Define (n+ℓ) rule.

Q.5   Define Anti Markovnikov rule.

Q.6   Compare the alkali metals and Alkaline earth metals with
       respect to (i) ionization enthalpy   (ii) basicity of oxides.

Q.7   Write short note on orthoboric acid.

Q.8   What is the difference between Molarity and Molality?

Q.9   Write the assumption which do not hold good in kinetic
       Molecular theory?

Q.10   Calculate the number of KJ of heat necessary to raise the
       temperature of 60 g of aluminium from 35°C to 55°C. Molar
       heat capacity of Al is 24J mol^{-1} K^{-1} .

Q.11   Balance the redox reaction :

(i) $MnO4_4^- + SO_2 \rightarrow Mn^{2+} + HSO_4^-$ (acidic medium)

(ii) $MnO_4^- + I^- \rightarrow MnO_2 + I_2$ (basic medium)

Q.12 (i) Write two similarities of hydrogen with alkali metals and Halogens.

(ii) Write chemical reaction to show amphoteric nature of water.

Q.13 Explain the following why :

(i) BeO is almost insoluble but $BeSO_4$ is soluble in water.

(ii) BaO is soluble but $BaSO_4$ is insoluble in water.
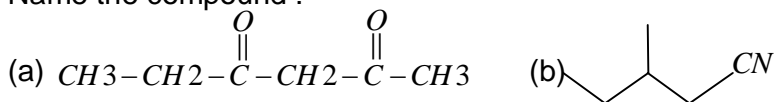
(iii) LiI is more soluble than KI in ethanol.

Q.14 Explain why :

(i) Hydrated alumina is treated with aqueous NaOH solution.

(ii) Aluminium utensils should not be kept in water overnight.

(iii) A solution of Na_2Co_3 is alkaline.

Q.15 (i) Explain :

(a) Inductive effect   (b) Resonance effect

(ii) Name the compound :

(a) $CH3-CH2-\overset{O}{\overset{||}{C}}-CH2-\overset{O}{\overset{||}{C}}-CH3$ (b) $\diagup\diagdown\diagup\diagdown$ CN

Q.16 Write short note on :
(i) SMOG   (ii) Green Chemistry   (iii) Acid Rain

Q.17 A compound contain 24.00% Carbon, 70.00% Chlorine and 6% Hydrogen. Calculate its empirical formula.
                        OR

An organic substance containg Corbon, Hydrogen and Oxygen gave the % composition as C=40.687%, H=5.085%. Calculate the empirical formula.

Q.18 (i) Would you expect 2nd Ionisation enthalpy of Sodium higher than Magnesium? If yes Why?

(ii) Oxygen or Fluorine which is having more negative electron gain enthalpy.

Q.19 Explain the various types of attractive intermolecular forces.

Q.20 (i) Explain Intensive and extensive property with example.   2

(ii) Define Hess law.   1

Q.21 Explain Le Chatelier's principle. Also explain the factors affecting it.

Q.22 The value of K_c= 4.24 at 800k for the reaction.
$CO(g)+H_2O(g)\rightleftharpoons CO_2(g)+H_2(g)$ Calculate equilibrium concentrations of CO_2 , H_2, CO and H_2O at 800K, if only CO and H_2O are present initially at concentration of 0.10M each.

Q.23 Sohan was very upset from last few days when he came to know that his father is alcoholic. He know about the side effects of the alcohol so want to keep away his father from it. He decided to talk about this with his father when he asked from his father about it, he told him, that he is not alcoholic, only sometimes he took it but of Sohan does not want, he never touch it.

(i) What is the main constituent of alcoholic beverages?

(ii) Write IUPAC name and hybridization of the main constituent.

(iii) What are the side effects of alcoholic beverages?

(iv) What values are possessed by Sohan and his father?

Q.24 Find centre of mass of a cone of height h.

OR

Find moment of Inertia of uniform sphere about axis of rotation and also find radius of gyration.

Q.25 What is Doppler effect? Drive expressions for apparent frequency when –

(i) Source is moving towards stationary listener.

(ii) Listener is moving towards stationary source and

(iii) Both source and listener are moving towards each other.

OR

What are beats? Discuss analytically the formation of beats. Prove that the number of beats produce per second is equal to a difference between the frequencies of two super imposing waves?

Q.26 State three basic assumptions of the kinetic theory of gases. Derive an expression for the pressure exerted by a gas on the basis of this theory. What is kinetic interpretation of temperature?

OR

Define Carnot cycle with suitable PV diagram. Find net work done in cyclic process. Also find efficacy of heat engine.

1+1+2+1

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Annual Examination 2017 – 18

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

General Instructions:-
Q. No. 1 to 5 (1 Mark each),   Q. No. 6 to 10 (2 Marks each),
Q. No. 11 to 22 (3 Marks each), Q. No. 23 Value Based (4 Marks)
Q. No. 24 to 26 (5 Marks each)
Attempt all questions

Q.1 When will the motion of simple pendulum be simple harmonic?

Q.2 Write three physical quantity which have dimensions but no units.

Q.3 When will a real gas behave as ideal gas?

Q.4 Is the radius of gyration of a body a constant quantity? Explain.

Q.5 What is the physical significance of zero time, positive time and negative time?

Q.6 Water rises in a capillary tube, whereas mercury falls in a capillary tube. Explain.

Q.7 Write the limitations of 1st law of thermodynamics.

Q.8 Define escape velocity and find its expression?

Q.9 The slope of an adiabatic curve on PV-diagram is r times the slope of isothermal curve. Explain.

Q.10 A 50 kg. girl wearing high heel shoes balances on a single heel. The heel is circular with a diameter 2.0 cm. What is the pressure exerted by the heel on the horizontal floor.

Q.11 Ten one rupees coins are put on top of each other on a table. Each coin has a mass m kg. Give the magnitude and direction of.
   (i)   The force on the 7th coin [counted from the bottom] due to all the coin on its top.
   (ii)   the force on the 7th coin by the 8th coin.
   (i)   The reaction of the 6th coin on the 7th coin?

Q.12 State and prove work-energy theorem for variable force.
                              OR
   Define elastic potential energy and final its expression for a springs attached to mass. M and move on horizontal smooth surface?

Q.13 Three identical spheres, each of radius R and placed as touching each other on a horizontal table. Where is the centre of mass of the system located?

Q.14 (i)   Find the variation of g due to rotation of earth or latitude?
   (ii)   How the rotation affect the value of g on pole and equator.

Q.15 State and prove Bermoull's theorem for ideal flow of liquid?

Q.16 State law of equipartition of energy? Find specific heat capacity of solids?

Q.17 A steam engine delivers 5.4×10^8 J of work per minute and services 3.6×10^9 J of work per minute from its boiler. What is the efficiency of the engine? How much heat in wasted per minute?

Q.18 Define stationary or standing wave in stretch string and find the number of modes of vibration in stretch string.

Q.19 A police van moving on a highway with a speed of 30 km/h fires a bullet at a thief's car speeding away in the same direction with a speed on 192 km/h. If the muzzle speed of the bullet is 150 m/s, with what speed does the bullet hit the thief's car?

Q.20 (i)   Both liquids and gases are fluids, then why concept of surface tension is applicable to liquid only?
   (ii)   Why liquid drop always acquire spherical shape?

Q.21 To find tension T_2 between masses m_2 and m_3 as shown in figure.
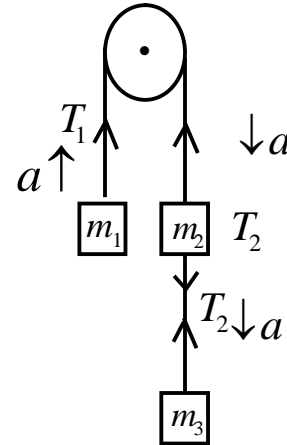
Q.22 Prove that the rate of change of angular momentum is equal to for que acting on body?

Q.23 A military team was   doing training for march past. On their way, they came across a bridge. The commander of the team stooped the soldiers from marching on to bridge and advised them to walk leisurely.
   (i)   Comment upon the values of the commander.
   (ii)   Name the phenomenon due to which the commander stop the soldiers from marching on to a bridge.
   (iii) Explain the phenomenon.

Annual Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 100**

General Instruction :-

The Question paper is divided into 4 Section A,B,C and D.

Section – A Question No. 1 to 4 carry **One Mark** each.

Section – B Question No. 5 to 12 carry **Two Marks** each.

Section – C Question No. 13 to 23 carry **Four Marks** each.

Section – D Question No. 24 to 29 carry **Six** Marks each.

Section – A

Q.1   If $A = \{1,2,3,4,5\}$ and $B = \{2,4,6,8\}$, find $A - B$.

Q.2   Find the value of k for which $\dfrac{-2}{7}, k, \dfrac{-7}{2}$ are in G.P.

Q.3   Write the contra positive of the statement. "If a number is divisible by 9, then it is divisible by 3".

Q.4   If $\dfrac{2}{11}$ is the probability of an event, what is the probability of the event 'not A'.

Section – B

Q.5   If $f(x) = x^2$ and $g(x) = 2x + 1$ are two real functions find $(f + g)x$.

Q.6   If $A \times B = \{(p,q),(p,r),(m,r)\}$, find A and B.

Q.7   Convert $40° \ 20'$ into radian measure.

Q.8   What is the value of $\sin \dfrac{31\pi}{3}$?

Q.9   Find the multiplicative inverse of $2 - 3i$.

Q.10   If $\dfrac{1}{8!} + \dfrac{1}{9!} = \dfrac{x}{10!}$, find x.

Q.11   Find $\displaystyle \lim_{x \to 0} \dfrac{\sin ax}{bx}$.

Q.12   What is the eccentricity of hyperbola whose vertices and foci are $(\pm 2, 0)$ and $(\pm 3, 0)$ respectively?

Section – C

Q.13 Prove that $\tan 3x \tan 2x \tan x = \tan 3x - \tan 2x - \tan x$.

Q.14 If $(x+iy)^3 = u + iv,$ then show that $\dfrac{u}{x} + \dfrac{v}{y} = 4(x^2 - y^2)$.

Q.15 Find $r,$ if $5^4P_r = 6^5P_{r-1}$.

Q.16 Find the middle term of $\left(3 - \dfrac{x^3}{6}\right)^7$.

Q.17 Find the equation of a s set of points P such that $PA^2 + PB^2 = 2K^2$, where A and B are the points (3,4,5) and ($-1,3,-7$), respectively.

Q.18 If p is the length of perpendicular from the origin to the line whose intercepts on the axes are a and b, then show that
$$\frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2}.$$

OR

If p and q are the lengths of perpendicular from the origin to the lines $x\cos\theta - y\sin\theta = k\cos 2\theta$ and $x\sec\theta + y\csc\theta = k$, respectively, prove that $p^2 + 4q^2 = k^2$.

Q.19 Sum of the first p, q and r terms of an A.P. are a, b and c respectively. Prove that : $\dfrac{a}{p}(q-r) + \dfrac{b}{q}(r-p) + \dfrac{c}{r}(p-q) = 0$.

OR

The sum of two numbers is 6 times their G.M. (geometric mean), show that numbers are in the ratio $(3 + 2\sqrt{2}):(3 - 2\sqrt{2})$.

Q.20 Evaluate : $\displaystyle\lim_{x \to 0} \dfrac{\cos 2x - 1}{\cos x - 1}$.

OR

Evaluate : $\displaystyle\lim_{x \to 0}\left(\dfrac{\tan 2x - \sin 2x}{x^3}\right)$.

Q.21 Find the mean deviation about the mean for the following data :
6, 7, 10, 12, 13, 4, 8, 12.

Q.22 A letter is chosen at random from the word. 'ASSASSINATION'. Find the probability that letter is – (i) a vowel (ii) a consonant.

Q.23 Find the derivative of $\tan x$ with respect to x from first principle.

Section – D

Q.24 By using principle of mathematical induction. Prove that n(n+1)(n+2)is divisible by 6 for all $n \in N$?

OR

$$1^3 + 2^3 + 3^3 + - - - - - - - + n^3 = \left\{\frac{n(n+1)}{2}\right\}^2.$$

Q.25 Find the coordinates of foci, the vertices, the lengths of major and minor axes, latus rectum and the eccentricity of the ellipse $9x^2 + 4y^2 = 36$.

Q.26 Prove that : $4\sin A \sin(60 - A)\sin(60 + A = \sin 3A)$ .Hence deduce that $\sin 20°\sin 40°\sin 60°\sin 80° = \dfrac{3}{10}$.

Q.27 Calculate mean, variance and standard deviation for the following distribution :

Classes	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	7	12	15	8	3	2

Q.28 Find the equation of the circle which passing through the points $(2,-2)$, and (3,4) and whose centre lie on the line $x + y = 2$.

OR

Find the equation of a circle with centre (2,2) and passes through the points (4,5).

Q.29 Solve the following system of inequalities graphically :
$2x + y \geq 4, \quad x + y \leq 3, \quad 2x - 3y \leq 6$.

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Annual Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 100**

Question No. 1 to 8 carry One Mark each.

Q.1   State the main factor which distinguishes an economic activity from a non economic activity?   1

Q.2   State two factors which decide the size of business?   1

Q.3   Name two modes which have transformed the traditional way of doing business?   1

Q.4   What is "Code of Ethics"?   1

Q.5   What is meant by "ploughing back of profits"?   1

Q.6   Name the Institution set up by world association for small and medium enterprises and sponsored by NABARD.   1

Q.7   Classify retailers on the basis of merchandise handled.   1

Q.8   Name the Licensing Authority to issue export/Import license. 1

Question No. 9 to 14 carry Three Marks each.

Q.9   A departmental store is a welcome change in big cities but an unwanted guest in smaller towns. Discuss with reasons why smaller towns do not prefer shopping from a departmental store?   3

Q.10   What is the main purpose of MSMED Act, 2006?   3

Q.11   What are major areas of social responsibility of business?   3

Q.12   "Some individuals or firms steal data either for personal motive or to harm the business". Discuss the type of risk highlighted in the given statement. How this risk can be reduced if not eliminates?   3

Q.26   Describe the role of following in promotion of small Industries in India :   3+3=6

(i)   NSIC   (ii)   DIC

Q.27   Draw a flow chart for Import of goods with details of documents issued / received and the person or body responsible for issuing such document at every step?   6

ORAL + PROJECT   →   **10**

****

Q.13 Aman gets his medical Insurance done but hides that fact that he is a heart patient. Within two weeks of medical Insurance, he suffers form a massive heart attack. Is he entitled to claim against Insurance. 3

Q.14 Rohan and Harshit are partners dealing in shares. Harshit uses firms money to buy shares on his name. He did not disclose this Information with Rohan.

(i) Does Rohan has any share in the profit earned from sale of these shares?

(ii) Which values did Harshit ignore by using firms money and not disclosing to his partner? 1+2=3

Question No. 15 to 19 carry Four Marks each.

Q.15 Business supplies goods and services to meet material needs of humans for financial gain. Discuss. 4

Q.16 "Red Tapism" is a hindrance to growth of public enterprises. Comments. 4

Q.17 Discuss the forces, which are responsible for increasing concern of business enterprises towards social responsibility? 4

Q.18 Reema received Rs. 100,000 from her parents as a gift. She is planning to Invest the entire amount but wants advise her about the various options where she can Invest her money. 4

Q.19 Discuss the formalities involved in getting an export licence. 4

Question No. 20 to 23 carry Five Marks each.

Q.20 Why are consumer cooperative stores considered to be less expensive? What are its relative Advantages over other large scale retailers? 5

Q.21 A company usually raises owners funds as a combination of equity shares and preference shares. Explain the benefits a company may enjoy by issuing both equity and preference shares. 5

Q.22 Explain briefly the principles of Insurance with suitable examples. 5

Q.23 Profit is no more the only leading objective for a business organization. Discuss various objectives a business enterprises aims to achieve. 5

Question No. 24 to 27 carry Six Marks each.

Q.24 Rohini is all set to sell toys for infants. She had almost decides to start her own production but her friend suggested her to import them from China. Advise Rohini what factors she should consider before make her decision to import or manufacture? 6

Q.25 Government of India established Public Sector enterprises to meet the post independence challenges of poverty, employment, illiteracy and regional imbalance. However, with time, Government reduced. The number of Industries reserved under Public Sector and promoted disinvestment. Why in your opinion Government promoted disinvestment? 6

Q23. Construct Index Number of prices from the following data by 6

(i) Laspeyre's method, (ii) Paasche's method, and (iii) Fisher method.

Community	2004		2015	
	Price (Rs.)	Expenditure (Rs.)	Price (Rs.)	Expenditure (Rs.)
A	8	100	10	90
B	10	60	11	66
C	5	100	5	100
D	3	30	2	24
E	2	8	4	20

OR

What is consumer price index? For whom it is constructed and what are its importance?

Q24. Calculate standard deviation from the following data :   6

Size	10	20	30	40	50	60	70
Frequency	3	5	7	9	8	5	3

ORAL + PROJECT   →   **20**

*****

Annual Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 100**

GENERAL INSTRUCTIONS:

1. All Questions are compulsory.

2. Marks for Questions are indicated against each Questions.

3. Answer should be brief and to the point.

   SECTION – A (INDIAN ECONOMIC DEVELOPMENT)

Q.1 Expenditure by the government is expressed in two ways. What are these?   1

Q.2 What is the full form of TANWA.   1

Q.3 Name a community and non-profit organisation in health Care?   1

Q.4 Define abiotic factors?   1

Q.5 Explain the internal development path of China, India and Pakistan?   3

Q.6 Define unemployment according to NSSO?   3

Q.7 What is poverty? Write the three approach initiated by the government for poverty reduction?   4

Q.8 What do you understand by devaluation of rupee? Why this step is taken during foreign exchange reform?   4

                    OR

Should devaluation always leads to rise in export earnings, because rupee value of dollar increases?

Q.9 Agriculture sector appears to be adversely affected by the reform process. Why?   4

Q.10 Underscore some of India's most crucial economic challenges at the time of Independence. 6

Q.11 Why and how was private sector regulated under the IPR 1956? 6

Q.12 Evaluate the various factors that led to the rapid growth in economic development in China. 6

OR

Give a brief description of the "common success story" and "common failure" of India and Pakistan. What explains the re-emmergence of poverty in Pakistan?

SECTION – B (STATSTICS FOR ECONOMICS)

Q.13 Write formula of median in continuous series. 1

Q.14. Bar diagram are those diagram in which data are presented in the forms of 1

Q.15. In statistics universe or population refers to 1

Q.16. Define statistics. 1

Q.17. Draw multiple bar diagram to show the following data – 3

Student	A	B	C
Marks in Eco.	40	35	30
Marks in Stat.	30	15	25
Marks in English	45	30	20

Q.18. The mean of 5 observations is 7. Later on it was found that two observations 4 and 8 were wrongly taken instead of 5 and 9. Find the corrected mean. 3

Q19. Calculate mode of the following series : 4

Class Internal	0-5	5-10	10-15	15-20	20-25	25-30
Frequency	20	24	32	28	20	26

Q20. The rank of 8 same students in tests in Mathematics and Statistics were as follows: 4

Rank in Mathematics	1	2	3	4	5	6	7	8
Rank in Statistics	4	2	1	6	8	3	5	7

Q21 Compute the price index from the following by simple aggregative method- 4

Commodity	A	B	C	D	E	F
Price in 2004 (Rs.)	200	300	100	250	400	500
Price in 2015 (Rs.)	250	300	150	350	450	550

OR

Compute the price index from the above table by average of price relative method.

Q22. Calculate quartile deviation and its coefficient from the following data: 6

Class Interval	30-32	32-34	34-36	36-38	38-40	40-42	42-44
Frequency	12	18	16	14	12	8	6

Roll No. _____   **Code. No.** 11/Physical Ed./NLCS/80

Annual Examination 2017 – 18

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

Question No. 1 to 12 each <u>One Mark</u>.

Q.1   What do you mean by "integrated Physical Education"?

Q.2   Define "Physical Fitness".

Q.3   When was the Ancient Olympic Games were started and Banded.

Q.4   Define "Yoga".

Q.5   Define "Dopoing".

Q.6   What do you mean by "Vigorous Physical Activities".

Q.7   What do you mean by "Fat Fold Thickness"?

Q.8   What do your meanby "Arthrology"?

Q.9   Define the "Biomechanics".

Q.10 Define "Psychology".

Q.11 What do you mean by "PassiveWarming-up"?

Q.12 What do you mean by "Pranayama"?

Question No. 13 to 23 each <u>Three Marks</u>.

Q.13 What are the schemes of sports Authority of India. Discuss any Three schemes.

Q.14 Write about "strength, speed and Endurance.   1+1+1

Q.15 Write about Olympic motto, Olympic flag, Olympic Awards.   1+1+1

Q.16 Explain the any Three Elements of Yoga.   1+1+1

Q.17 Discuss any Three performance Enhancing substance.1+1+1

Q.18 Write any Three principles of Physical Activities Environment with explain.   1+1+1

Q.19 Explain the classification of body types. According by Ernest Kretschhmer.   1+1+1

Q.20 Discuss about classification of joints.   1+1+1

Q.21 Write about Levers, Equilibrium, and centre of Gravity. 1+1+1

Q.22 Discuss any three difference between growth and development.

                                                       1+1+1

Q.23 Write any three principles of sports training.   1+1+1

Question No. 24 to 28 each <u>Five Marks</u>.

Q.24 Explain any five Importance of Test and measurements in sports?

Q.25 Explain any five Importance of Biomechanics in Physical Education and sports.

Q.26 Explain any Five Importance of Anatomy and Physiology in Physical Education.

Q.27 What do you mean by "Adolescence"? Discuss any Four problems of Adolescence periods?   1+4=5

Q.28 What do you mean by "Warming up" write any Four importance Physiological Basis of warming up?   1+4=5

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Roll No. ___   Code. No. 11/Fine Arts/NLCS/12

Annual Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 40**

Q.1   Explain the compositional aspect of rock-painting "Wizard's dance" of Bhimbetka.   5

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

Explain the location of the main sites of Indus valley civilization.

Q.2   Is the mother goddess an idol? Explain it with justification.   5

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

What are the differences between Gandhar style of art and Mathura style of art?

Q.3   Explain the differences between Mathura Buddha and Sarnath Buddha.   5

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

"Yakshini of Didarganj is a masterpiece" Do you agree? Justify your views.

Q.4   What is Mara Vijay? Describe the compositional arrangement of this relief.   5

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

Describe the painting "Padamapani Bodhisattva".

Q.5   Explain the following (Any Two) :   5
(i)   Ravana shaking Mount Kailash.
(ii)   The Trimurti, elephant, Maharashtra.
(iii)   Laxmi Narayana, Kandariya Mahadeva temple, Khajuraho.
(iv)   Cymbal players, sun temple, Konark.

Q.6   Explain the theme of the sculpture "Nataraja".   5

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

What are the characteristics of he bronze sculpture "Devi Uma"?

Q.7   What are the characteristics of Mughal architecture?   5

Q.8   Explain the compositional arrangement of the Taj Mahal.   5

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