ENGLISH

(NOTE MAKING AND SUMMARY)............ (Do in the Fair register of English)

Q1. Choose any 3 comprehension passages from a practice book and do note making and summary.   (Follow and stick to the format and the rules taught in the class.)

Q2. Read the newspaper daily and cut samples of the following in the fair register of English underlining it with the holiday homework:

a. 3 Reports

b. 3 Articles

c. 3 Posters

d. 5 Classified advertisements.

Q.3. Write a letter to the Editorof a national daily highlighting the neglect of our national monuments and how these are being damaged in the present day world

Q.4.Write an articleon the topic-'How Google controls the life of an average person?' 150-200 words.

Q5. Learn and revise all the syllabus of PERIODIC TEST-I.

MATHS

1.   SHOW THAT THE FUNCTION f:R→R GIVEN BY f(x)=x3 IS INJECTIVE

2.   GIVE EXAMPLES OF TWO FUNCTIONS f:N→N AND g:Z→Z SUCH THAT gof IS INJECTIVE BUT g IS NOT INJECTIVE.
        GIVEN A SET **A**={1,2,3,4} , CREATE :

3.   A REFLEXIVE BUT NOT SYMMETRIC RELATION

4.   A REFLEXIVE AND SYMMETRIC BUT NOT TRANSITIVE RELATION

5.   AN EQUIVALENCE RELATION

6.   DEFINE SIGNUM FUNCTION AND CHECK WHETHER IT IS AN EQUIVQLENCE RELATION OR NOT.
        CONSTRUCT A 3×3 WHICH IS :

7   .A SYMMETRIC MATRIX

8.   A SKEW SYMMETRIC MATRIX

9   .REPRESENT IT AS THE SUM OF A SYMMETRIC AND A SKEW SYMMETRIC MATRIX.

10.   DERIVE THE MINORS AND CO FACTORS OF A 3×3 MATRIX AND HENCE DEDUCE THE FORMULA FOR THE ADJOINT .(YOU MAY CHOOSE ANY MATRIX OF ORDER 3×3.

ACCOUNTS

1. A and b are partners sharing profits and losses in the ratio of 3:1. Their capitals at the end of the financial year 2016-17 were 6,00,000 and 3,00,000. During the year 2016-2017, A's drawings were 80,000 and the drawings of B were 40,000, which had been duly debited to partner's capital accounts. Profit before charging interest on capital for the year was 80,000. The same had also been credited in their profit sharing ratio. B had brought additional capital of 70000 on October 1, 2016. Calculate interest on capital @12% p.a. for the year 2016-17.

2. Shiv and hari entered into partnership on 1st april, 2015, contributing 5,00,000 and 2,00,000 respectively. Hari also introduced 1,00,000 as additional capital on 1st July, 2015. They agreed to share profits and losses in the ratio of 3:2, following information is provided regarding the partnership:

    i.   Shiv and Hari, each are allowed a salary of 5,000 per quarter.

    ii.   Interest is to be allowed on capital @8% p.a. and charged on drawings at 10% p.a.

    iii.   Drawings of Shiv and Hari during the year were 12,000 and 10,000 respectively. Profits as at 31st March, 2016 before the above mentioned adjustments was 1,96,000.

Prepare

Profit and loss appropriation A/c

Partner's capital A/cs

3. The partnership agreement of Maneesh and Girish provides that
   i. Profits will be shared equally
   ii. Maneesh will be allowed a salary of 400 per month
   iii. Girish who manages the sales department will be allowed a commission equal to 10% of the net profit after allowing Maneesh's salary.
   iv. 7% interest will be allowed on partner's fixed capital.
   v. 5% interest will be charged on partner's annual drawings.
   vi. The fixed capital of Maneesh and Girish are 1,00,000 and 80,000 respectively. Their annual drawings were 16,000 and 14,000 respectively. The net profit for the year ending March 31, 2016 amounted to 40,000.

   Prepare firm's profit and loss appropriation account.

4. Kanika and Gautam are partners doing a dry cleaning business in Lucknow, sharing profits in the ratio of 2:1 with capitals of 5,00,000 and 4,00,000 respectively. Kanika withdrew the following amount during the year to pay the hostel expenses of her son.

   1st April   10,000
   1st June   9,000
   1st November   14,500
   1st December   5,000

   Gautam withdrew 15,000 on the first day of April, July, October and January to pay rent for the accommodation of his family. He also paid 20,000 per month as rent for the office of partnership which was in nearby shopping complex.

   Calculate interest on drawings @6% p.a.

5. Mohan,Vijay and Anil are partners, the balances of their Capital Accounts being 30,000, 25,000 and 20,000 respectively. In arriving at these figures, the profits for the year ended 31st march, 2016, 24,000 had already been credited to partners in the proportion in which they shared profits. Their drawings were 5,000(Mohan), 4,000(Vijay) and 3,000(Anil) during the year. Subsequently , the following omissions were noticed and it was decided to bring them into account:
   a. Interest on capital @10%
   b. Interest on drawings : Mohan 250 and Anil 150 .

   Make necessary corrections through a journal entry and show your workings clearly.

BUSINESS STUDIES

1. Workers should be encouraged to develop and carry out their plans for improvements." Identify the principle of management formulated by Fayol.

2. The production manager of Bharat Ltd. instructs a salesman to go slow in selling the product, whereas the marketing manager is insisting on fast selling to achieve the target. Which principle of management is being violated in this case? State the consequences of violation of this principle.

3. Hina and Harish are typists in a company having same educational qualifications. Hina is getting Rs. 3,000 per month and Harish Rs. 4,000 per month as salary for the same working hours. Which principle of management is violated in this case? Name and explain the principle.

4. Which principle of management envisages that each group of activities having the same objectives must have one head and one plan? Explain the principle with a suitable example.

5. If an organisation does not provide the right place for physical and human resources in the organisation, which principle is violated? What are its consequences?

ECONOMICS

1. Explain any four positive contributions of Britishers in India.
2. Explain the objectives of Five Year Plan in India.
3. Distinguish between Intermediate goods & Final goods.
4. Explain four precautions of calculating National Income by Income method.
5. Explain the reasons behind backwardness of agriculture sector in India at the time of Independence.

INFORMATICS PRACTICES

1. Prepare a practical file of IP. Do the 20 java applications covered in the class in it. Also, do the HTML questions discussed in the class in it.
2. Prepare a project report on Computer Networks. Submit a printed copy of it.
3. Revise the syllabus covered for the upcoming periodic test.

PHYSICAL EDUATION

1. Draw Fixture of 22 teams participating in the Knockout Tournament.
2. Explain Pre, During and Post responsibilities of various committees.
3. Draw a fixture of 14 teams participating in league tournament.
4. Describe Fluid intake of an athlete for pre, during and after competition.
5. Elaborate the requirements of food intake for pre, during and after competition.