

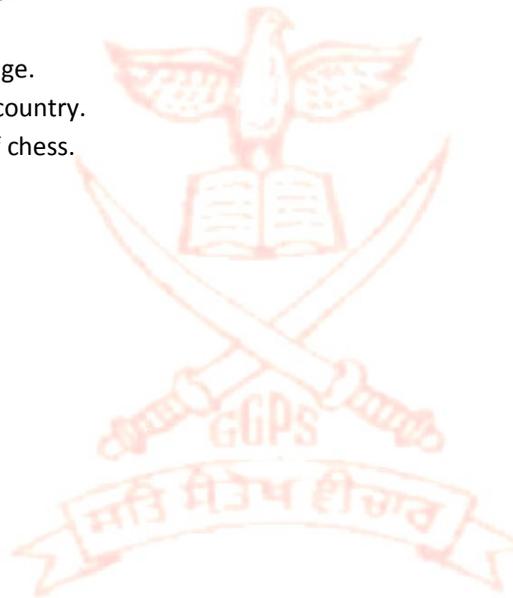
Guru Gobind Singh Public School

Sector V/B, B.S.City

Holiday Homework

ENGLISH

1. On the basis of the chapter Birth make notes using headings and sub headings in a suitable format. Use recognisable abbreviation. Give a suitable title and also write a summary in 80 words.
2. Write down the summary of: "The Tale Of Melon City".
3. You are Suman/Sagar, head boy/girl of ABC school. Write a notice for your school notice board about: The Annual Sports Day.
4. M/S ISSE Ltd has produced a new refrigerator name Alpine. Draft an advertisement for a local daily to promote the sale of the refrigerator. Offer a free pressure cooker with refrigerator to those who buy before 31st December.
5. Recently you attended a seminar on Adult Education Programme organised by the CBSE. Draft a report to be published in the Hindustan Times, Mumbai. You are Ambica/Atul a special correspondent of the newspaper.
6. Change the voice:
 - a. I was looking at her face.
 - b. Who abused you?
 - c. He gave me your message.
 - d. We ought to love your country.
 - e. We shall play a game of chess.



हिन्दी

1.गाँवों में भी विज्ञान का प्रभाव:- आलेख (150 शब्दों में)

2.अपने विद्यालय के खेल-उत्सव पर एक रिपोर्ट तैयार कीजिए।

3.अपनी कक्षा के 40 विद्यार्थियों के साथ विषय-अध्यापिका के नेतृत्व में आप एक सप्ताह के लिए 'पूरी' गए थे।वर्ग मॉनिटर के रूप में आप इस ट्रिप की एक रिपोर्ट तैयार कीजिए। आलेख (150 शब्दों में)

4.किसी राष्ट्रीय दैनिक समाचार-पत्र के संपादक के नाम एक पत्र लिखिए जिसमें हमारे नौजवान सैनिक कड़ाके की ठंड से जूझते हुए हमारी रक्षा करते हैं।

5.निबंध लेखन :- (250 - 300 शब्दों में)

क)विज्ञापनों का सामाजिक जीवन पर प्रभाव

ख)सादा जीवन उच्चविचार

जमा करने की तिथि :- 05.01.2018

कार्य फाईल पेपर में करे।



संस्कृत

- 1.कमपि एकं अपठित अनुच्छेदं पठित्वा प्रश्नान् उत्तरत ।
- 2.कमपि एकं पत्रम् मञ्जूषायाः सहायतया रिक्त स्थानानि पूरयत ।
- 3.मञ्जूषायाः शब्दसूची सहाय्येन संस्कृतेन पञ्चवाक्यानि लिखित्वाचित्रवर्णनम् कुरुत ।
- 4.अद्योलिखितेषु संस्कृतेन पञ्चवाक्येषु कवि-परिचयः यच्छत ।

क.महाकविः कालिदासः

ख.महाकविः भारवि

ग.विष्णुशर्मा ।

5.एकं प्रतिलघुनिबन्धं संस्कृतेन लिखत

श्रीमद्भगवद्गीता

अथवा

सदाचारः ।



Physics

Ch – 7

1. State and prove Law of conservation of angular momentum.
2. Establish relation between torque and angular acceleration, torque and angular force.
3. Find the moment of inertia of the disc.
4. What will be change in the duration of the day if the earth suddenly shrinks 64 times then present value. The mass remains same.

Ch – 8

1. Find the relation between g and G .
2. Find the variation of g due to shape of the earth.
3. State and prove Kepler's law of planetary motion.
4. Deduce Newton's law of gravitation from Kepler's third law.

Ch – 9

1. Prove the potential energy density = half stress \times strain.
2. What is compressibility? How it is related with bulk modulus?

Ch – 10

1. With a diagram explain hydraulic brakes.
2. What is surface tension? Prove that surface tension is equal to surface energy.
3. What is capillary action? Explain with proper diagram.
4. What is viscosity? State and prove Stokes's law.
5. State and prove Bernoulli's theorem and its application.

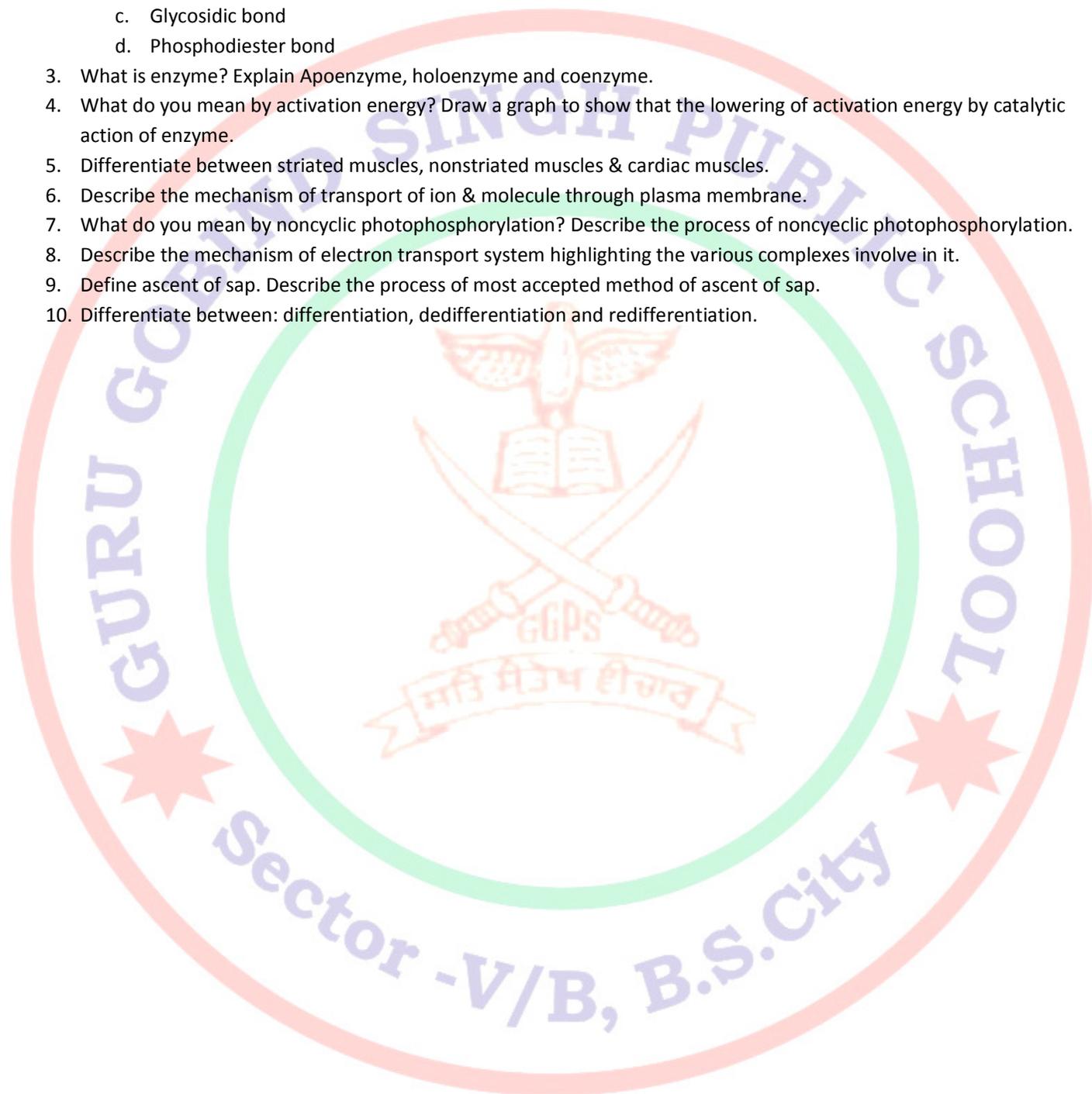
Ch – 11

1. Define heat, temperature and thermometer.
2. Define mechanical equivalent of heat.
3. Why mercury taken as a thermometric liquid?
4. Write the formulae for conversion of temperature of various scale.
5. Find your body temperature 98°F to Celsius scale.

Note: Submit holiday homework on the first date when school reopens on 2018.

BIOLOGY

1. Draw a well labelled diagram of digestive system of cockroach.
2. Define the following –
 - a. Zwitter ion
 - b. Peptide Bond
 - c. Glycosidic bond
 - d. Phosphodiester bond
3. What is enzyme? Explain Apoenzyme, holoenzyme and coenzyme.
4. What do you mean by activation energy? Draw a graph to show that the lowering of activation energy by catalytic action of enzyme.
5. Differentiate between striated muscles, nonstriated muscles & cardiac muscles.
6. Describe the mechanism of transport of ion & molecule through plasma membrane.
7. What do you mean by noncyclic photophosphorylation? Describe the process of noncyclic photophosphorylation.
8. Describe the mechanism of electron transport system highlighting the various complexes involve in it.
9. Define ascent of sap. Describe the process of most accepted method of ascent of sap.
10. Differentiate between: differentiation, dedifferentiation and redifferentiation.



IP

1. Write a program in Java to input a year and check whether it is leap Year or Not.
2. Write a program in Java to input a no and check whether it is palindrome or not.
3. Write a program in Java to input a no and display it in reverse order.
4. Write a program in Java to input month no and display its equivalent month name using switch.
5. Write a program in Java to display the sum of given series :
 $S=1-2+3-4+5-6+ \dots +n$

SQL :

6. What do you understand by primary and alternate key of table . Explain with example.
7. Consider the following tables item and customer. Write SQL commands for the statement (i) to (iv) and give outputs for SQL queries (v) to (viii).

Table : ACTIVITY

| Acode | Activity Name | Participants Num | Prize Money | Schedule Date |
|-------|----------------|------------------|-------------|---------------|
| 1001 | Relay 100 X 4 | 16 | 10000 | 23 Jan,2004 |
| 1002 | High Jump | 10 | 12000 | 12 Dec, 2003 |
| 1003 | Shot Put | 12 | 8000 | 14 Feb, 2004 |
| 1004 | Long Jump | 12 | 9000 | 01 Jan, 2004 |
| 1005 | Discus Through | 10 | 15000 | 19 Jan, 2004 |

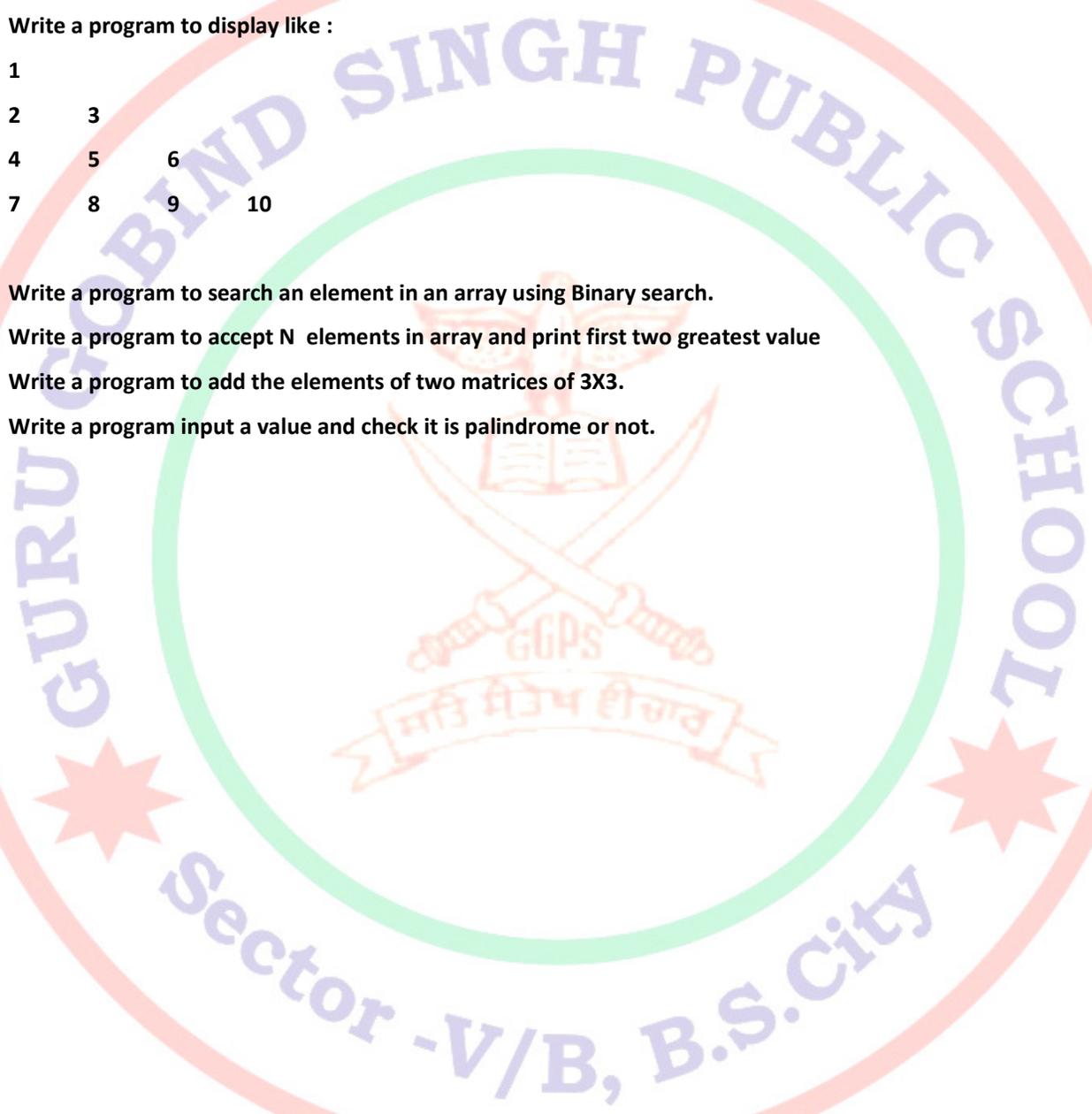
- i. To display the Activity name and Acodes in ascending order of Activity name from the table Activity.
- ii. To display the sum of PrizeMoney for each of the number of participants groupings (as shown in column ParticipantsNum 10,12,16)
- iii. To display the contents of the Activity table whose schedule Date earlier than 01/01/2004 in ascending order of participantsNum.
- iv. To display the name of all activities with their Acode in descending order.
- v. `SELECT Max(Schedule Date),Min(Schedule Date) from ACTIVITY;`
- vi. `SELECT SUM(PrizeMoney) from Activity;`
- vii. `SELECT DISTINCT ParticipantNum from Activity.`
- viii. `SELECT count(DISTINCT Participants Num) from Activity.`

Computer Science

1. Write a program in c++ to input a no and check whether it is Armstrong or not.
2. Write a program in c++ to input a no and display the sum of its digit.
3. Write a program in c++ to input a no and display its factorial.
4. Write a program in c++ to input month no and display its equivalent month name using switch.
5. Write a program to display like :

```
1
2   3
4   5   6
7   8   9   10
```

6. Write a program to search an element in an array using Binary search.
7. Write a program to accept N elements in array and print first two greatest value
8. Write a program to add the elements of two matrices of 3X3.
9. Write a program input a value and check it is palindrome or not.



Economics

1. Make a project on Global Warming. Do project in the file.
2. Learn & Write NCERT questions and answers of the following chapters
 - a. Ch-Indian economy on the eve of independence
 - b. Ch- Economics reforms since 1991

Indian economy on the eve of independence

1. What was the focus of the economy policies pursued by the colonial government in India? What were the impacts of these policies?
2. Name some notable economists who estimated India's per capita income during the colonial period.
3. What were the main causes of India's agricultural stagnation during the colonial period?
4. Name some modern industries which were in operation in our country at the time of independence.
5. What was the two fold motive behind the systematic deindustrialisation effected by the British in pre-independent India?
6. The traditional handicrafts industries were ruined under the British rule. Do you agree with this view? Give reasons in support of your answer.
7. What objectives did the British intend to achieve through their policies of infrastructure development in India?
8. Critically appraise some of the shortfalls of the industrial policy pursued by the British colonial administration?
9. What do you understand by the drain of India's wealth during the colonial period?
10. Which is regarded as the defining year to mark the demographic transition from its first to the second decisive stage?
11. Give a quantitative appraisal of India's demographic profile during the colonial period.
12. Highlights the salient features of India's pre-independence occupational structure.
13. Underscore some of India's most crucial economic challenges at the time of independence.
14. When was India's first official census operation undertaken?
15. Were there any positive contributions made by the British in India? Discuss.

Economic Reforms Since 1991

1. Why were reforms introduced in India?
2. How many countries are member of the WTO?
3. Why did RBI have to change its role from controller to facilitator of financial sector in India?
4. How is RBI controlling the commercial bank?
5. What do you understand by devaluation of rupee?
6. Distinguish between the following
 - a) Bilateral and Multilateral trade
 - b) Tariff and non-tariff barriers
7. Why are tariffs imposed?
8. What is the meaning of quantitative restrictions?
9. Do you think outsourcing is good for India? Why are developed countries opposing it?
10. India has certain advantages which make it favourite outsourcing destination. What are these advantages?
11. Agriculture sector appear to be adversely affected by the reform process. Why?

Accountancy

1. After the graduation, Mobile started a business of footwear named "Style Wear". Her Father gave ₹ 7,60,000 as capital in gift. She also took a loan of ₹ 4,00,000 on 1.04.14 from Axis Bank at an interest rate of 10% p.a. She purchased a shop for ₹ 3,30,000 in a Shopping Mall and started her business from 1st April 2014. She deposited ₹ 5,000 for electricity connection with TPDDL Ltd. and ₹ 10,000 as a security for the shop in the mall. On the same date, she made some purchases as follows:

- (i) Furniture ₹ 80,000 (by Cash)
- (ii) Goods (footwear) ₹ 1,20,000 (by Cash)

On 1st May, 2014, she transferred her Savings Account Balance of ₹ 1,20,000 into Current Account in the name of "Style Wear" and treated this amount as an additional capital. On the same date, she also appointed Raju and Rahim as salesmen at the salary of ₹ 8,000 p.m. each. She paid ₹ 22,000 on 1st May to Mahima Interiors for furnishing her showroom. All the payments were made by cheque, except wages, freight and cartage. All the receipts were in cash and were deposited in the bank on the same day.

The summary of transactions which took place during the year are as under :

| Information | Amt.(₹) |
|---------------------------------------|-----------|
| Cash Sales | 15,70,000 |
| Credit Sales | 3,30,000 |
| Cash Purchases | 7,10,000 |
| Credit Purchases | 60,000 |
| Wages Paid | 15,000 |
| Electricity Expenses Paid | 70,000 |
| Telephone Expenses | 55,000 |
| Freight and Cartage | 22,000 |
| Advertisement Expenses | 30,000 |
| Miscellaneous Expenses | 11,000 |
| Telephone Expenses Outstanding | 1,000 |
| Electricity Expenses due but not Paid | 13,000 |

She withdraw ₹ 5,000 p.m. by cheque for her personal expenses. Depreciation was charged @5% p.a. on shop and @10% p.a. on furniture. Closing stock was valued at ₹ 1,75,000.

You are required to :

- (i) Journalise the above transactions. Post them into Ledger and prepare a Trial Balance as at 31st March, 2015.
- (ii) Prepare Trading and Profit and Loss Account for the year ended 31st March, 2015 and a Balance Sheet as at 31st March, 2015.
- (iii) Calculate Profitability Ratios (Gross Profit Ratio, Net Profit Ratio and Return on Capital Employed) to assess the profitability of the business.
- (iv) Determine the short-term and long-term solvency position of the firm with the help of following ratios: (i) Current Ratio; (ii) Quick Ratio; (iii) Debt Equity Ratio; (iv) Proprietary Ratio.

2. Following is the Balance Sheet of Akash Ltd. for two years.

| Particulars | Note No. | 31.03.2014 (₹) | 31.03.2013 (₹) |
|---|----------|------------------|------------------|
| I. EQUITY AND LIABILITIES | | | |
| 1. Shareholders' Funds | | | |
| (a) Share Capital | 1 | 10,00,000 | 15,00,000 |
| (b) Reserves and Surplus | 2 | 10,60,000 | 5,00,000 |
| 2. Non-Current Liabilities | | | |
| (a) 10% Debentures | | 10,00,000 | 16,00,000 |
| (b) 10% Loa from Bank | | 5,50,000 | 7,00,000 |
| 3. Current Liabilities | | | |
| (a) Trade Payables | 3 | 2,30,000 | 1,50,000 |
| (b) Other Current Liabilities | 4 | 56,000 | 40,000 |
| (c) Provision for Taxation | | 4,15,000 | 3,00,000 |
| Total | | 43,11,000 | 47,90,000 |
| II. ASSETS | | | |
| 1. Non-Current Assets | | | |
| Fixed Assets | | | |
| Tangible Assets | | 28,84,000 | 37,47,000 |
| 2. Current Assets | | | |
| (a) Trade Receivables | 5 | 7,70,000 | 6,70,000 |
| (b) Inventories | | 3,80,000 | 2,70,000 |
| (c) Other Current Assets (Prepaid Expenses) | | 17,000 | 13,000 |
| (d) Cash and Cash Equivalents | | 2,60,000 | 90,000 |
| Total | | 43,11,000 | 47,90,000 |

Notes to Accounts :

| Particulars | 2014 (₹) | 2013 (₹) |
|--|------------------|------------------|
| 1. Share Capital | | |
| Equity Share Capital of ₹ 10 each | 10,00,000 | 10,00,000 |
| 10% Preference Shares of ₹ 10 each | --- | 5,00,000 |
| | 10,00,000 | 15,00,000 |
| 2. Reserves and Surplus | | |
| Debenture Redemption Reserve (DRR) | 3,00,000 | --- |
| Surplus i.e. Balance in the Statement of Profit and Loss | 7,60,000 | 5,00,000 |
| | 10,60,000 | 5,00,000 |
| 3. Trade Payables | | |
| Creditors | 1,50,000 | 90,000 |
| Bills Payable | 80,000 | 60,000 |
| | 2,30,000 | 1,50,000 |
| 4. Other Current Liabilities | | |
| Outstanding Expenses | 56,000 | 40,000 |
| 5. Trade Receivables | | |
| Debtors | 7,40,000 | 6,50,000 |
| Bills Receivables | 30,000 | 20,000 |
| | 7,70,000 | 6,70,000 |

Additional Information :

- Revenue from Operations for the year ended 31.03.2013 was ₹ 45,00,000 and 31.03.2014 was ₹ 56,00,000
- Purchases for the year ended 31.03.2013 were ₹ 32,00,000 and 31.03.2014 were ₹ 38,00,000
- Opening Stock for the year ended 31.03.2013 was ₹ 2,30,000
- Depreciation charged for the year ended 31.03.2014 is ₹ 6,70,000

You are required to :

- Calculate Solvency and Activity Ratios;
- Also calculate Current Ratio and Quick Ratio;
- Prepare Cash Flow Statement for the year ended 31.03.2014

3. Following are the Balance Sheets of Star Ltd., as at 31st March, 2015 and 31st March, 2014. Prepare Cash Flow Statement:

| Particulars | Note No. | 31.03.2015 (₹) | 31.03.2014 (₹) |
|---|----------|-------------------|-------------------|
| I. EQUITY AND LIABILITIES | | | |
| 1. Shareholders' Funds | | | |
| (a) Share Capital | | 6,50,000 | 4,50,000 |
| (b) Reserves and Surplus | 1 | 2,10,000 | 1,50,000 |
| 2. Non-Current Liabilities | | | |
| Long-term Borrowings | 2 | 2,00,000 | 2,00,000 |
| 3. Current Liabilities | | | |
| Trade Payables | | 1,80,000 | 90,000 |
| Total | | 12,40,000 | 8,90,000 |
| II. ASSETS | | | |
| 1. Non-Current Assets | | | |
| (a) Fixed Assets | | | |
| Tangible Assets | | 7,50,000 | 5,15,000 |
| (b) Non-Current Investments (12% Investments) | | 1,50,000 | 1,00,000 |
| 2. Current Assets | | | |
| (a) Inventories | | 1,75,000 | 1,25,000 |
| (b) Trade Receivables | | 90,000 | 1,05,000 |
| (c) Cash and Cash Equivalents | | 75,000 | 45,000 |
| Total | | 12,40,000 | 8,90,000 |

Notes to Accounts :

| Particulars | 31.03.2015 (₹) | 31.03.2014 (₹) |
|--|-------------------|-------------------|
| 1. Reserve and Surplus | | |
| General Reserve | 60,000 | 50,000 |
| Surplus i.e. Balance in the Statement of Profit and Loss | 1,50,000 | 1,00,000 |
| | 2,00,000 | 2,00,000 |
| 2. Long-term Borrowings | | |
| 10% Debentures | 2,00,000 | 2,00,000 |

Additional Information:

- (i) Depreciation charged during the year ₹ 65,000.
- (ii) Rent received during the year ₹ 20,000.
- (iii) New Investments made on 1st October, 2014.

Sector -V/B, B.S.City