## Class 8

*23th March, 2020 to 31st March, 2020*

### Mathematics D - 4024

**Text book: New Elementary Mathematics (2)**

**Day 3**
- Ex – 9.4: page 233
- Q. No: 5 to 9

**Day 4**
- Ex – 9.4: page 235
- Q. No: 17 to 21

**Day 5**
- Ex – 9.5: page 241
- Q. No: 7 to 11

**Day 6**
- Ex – 8.1: page 178
- Q. No: 2 (all)

**Day 7**
- Ex – 8.3: page 188 - 189
- Q. No: 2 to 5

**Day 8**
- Ex – 12.2: page 345 - 346
- Q. No: 9 to 11

### Mathematics - Additional - 4037


**Day 2:**
  - Ex – 3A – 3, 4, 5, 6,7
  - Pg. 37-38

**Day 3:**
  - Ex – 3B – 2(i), (ii), (iii), (iv), (v), (vi)
  - Pg. 43-44

**Day 4:**
  - Ex – 3B – 4,5,6,9
  - Pg. 43-44

**Day 5:**
  - Ex – 3B – 4,5,6
  - Pg. 43-44

**Day 6:**
  - Ex – 3B – 9, 10, 11
  - Pg. 43-44

**Day 7:**
  - Ex – 3C – 3, 4, 5, 7, Pg. 48
**Day 3 Letter Writing**
Topic: Write a letter to your friend congratulating him/her on his/her success in class 12 board exam.

**Day 4: Essay writing (Narrative) any one**
Topic: Describe one of your most amazing possessions as a child

Describe some things that older generations do not understand about your generation

**Day 5: Comprehension 3A Pg.-89**
When Corporations Rule the World
Do QA from 1-5.

**Day 6: Letter writing (Formal)**
Topic: Write a letter to the Mayor of your city seeking a solution to the problem of water logging in your area.

**Day 7: Comprehension**
pg. 23, 3B WB
Q/A 1-8 in the WB.

**Day 8: Essay Writing (Descriptive) any one.**
The best restaurant in town
The most embarrassing moment of your life

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**Bengali - 3204**

**Day 3:**
Idioms (Bagfhdhara)Pg :446-448 Book (Notun Bangla Bayakoron o Nirmiti)

**Day 4:**
Proverbs (Probad Probochon) Book (Notun Bangla Bayakoron o Nirmiti) Pg:461

**Day 5:**
Write the summery of ‘Bangla Noboborsha’ (not to learn by heart) (grab the idea, will help improve creative writing skills)

**Day 6:**
Seperation of words (Banjonshondhi) Book (Notun Bangla Bayakoron o Nirmiti) Pg.: 89-91

**Day 7:**
Essay Writing (out of 250 words)
Topic: বিদ্যালয়ের বিেম কেি কময়ি চলি

**Day 8:**
Prose "Amader Lokshilpo” Book Shahittya Konika Reading for Open Ended Comprehension
Day 2
1 A student separates propanoic acid (b.p. 141 °C) and butanoic acid (b.p. 164 °C) using the apparatus shown below.

![Diagram of distillation setup]

(b) (i) The student has left out one item in setting up the apparatus. Draw this item on the diagram in the correct position.

Now that this addition has been made the apparatus is ready for the separation of the two acids.

(ii) Name apparatus A.

....................................................................................................................................................

(iii) What is the purpose of apparatus A?

....................................................................................................................................................

(iv) Apparatus B is a condenser. On the diagram, indicate both where water enters and where water leaves the apparatus.

(v) What is the process taken place in the condenser?[1]

....................................................................................................................................................

(vi) What is the reading on the thermometer when the first few drops of distillate appear in C?

....................................................................................................................................................

(vii) Name the first distillate ...........................................................................................................
2. Water can be purified from sea water by simple distillation.

(i) Draw the apparatus set up for this distillation.

(ii) What is the temperature reading to get the pure water?

(iii) How would you test the purity of water?

(iv) How would you test that solid salt (NaCl) is pure?

(v) What are two physical properties of a mixture to do the distillation?
   1. .................................................................
   2. .................................................................
Day 3

(a) Glass is made from sand.

Pure sand has a giant molecular structure.

(i) What is the formula for pure sand?

(ii) Explain why sand has a very high melting point.

(iii) Explain why sand does not conduct electricity.

(iv) Describe two similarities in the structure of sand and diamond.

(v) Why graphite can be used as lubricant and in pencils.
(b) Carbon dioxide is a greenhouse gas. This is because its covalent bonds can absorb infra-red radiation.

Draw a ‘dot-and-cross’ diagram to show the bonding in a molecule of carbon dioxide. Show only the outer shell electrons.

(c) Iodine and bromine form the compound iodine bromide, IBr.

Draw the ‘dot-and-cross’ diagram for IBr. Only draw the outer shell electrons.

(d) The electrical conductivity of a substance is related to its structure and bonding.

(i) Graphite and diamond are both forms of solid carbon. Explain why graphite conducts electricity but diamond does not.

(ii) Explain why solid sodium chloride does not conduct electricity whereas aqueous sodium chloride does conduct electricity.

(iii) Draw the diagram of ions present in CaO.

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**Day 4**

1. Draw dot crosses diagram of following:
   - CO₂
   - NH₃
   - H₂O
   - HCl
   - BF₃
   - CCl₄
   - C₂H₄
   - SiCl₄
   - O₂

2. State 3 physical properties of covalent compounds.
Day 5

1. State and explain 3 similarities between diamond and graphite.
2. State and explain 3 differences between diamond and graphite.
3. What is metallic bond?
   Draw the diagram to show metallic bond in Brass.
4. What is alloy? Why alloys are harder than pure metals?
5. How does sodium conduct electricity?

Accounting - 7707

Day: 2
Requirement: Do the Journal and Ledger

1. Write up the asset, capital and liability accounts in the books of D Gough to record the following transactions: 20X9
   June 1 Started business with £16,000 in the bank.
   2. Bought van paying by cheque £6,400.
   5. Bought office fixtures £900 on credit from Old Ltd.
   8. Bought van on credit from Carton Cars Ltd £7,100.
   12. Took £180 out of the bank and put it into the cash till.
   15. Bought office fixtures paying by cash £120.
   19. Paid Carton Cars Ltd a cheque for £7,100.
   21. A loan of £500 cash is received from B Berry.
   25. Paid £400 of the cash in hand into the bank account.
   30. Bought more office fixtures paying by cheque £480.

2. Write up the asset and liability and capital accounts to record the following transactions in the records of F Murray. 20X7
   July 1 Started business with £15,000 in the bank.
   2. Bought office furniture by cheque £1,200.
   3. Bought machinery £1,400 on credit from Trees Ltd.
   5. Bought a van paying by cheque £6,010.
   8. Sold some of the office furniture – not suitable for the business – for £150 on credit to D Twig & Sons.
   15. Paid the amount owing to Trees Ltd £1,400 by cheque.
   23. Received the amount due from D Twig & Sons £150 in cash.
   31. Bought more machinery by cheque £650.
Day: 3

Requirement: Do the Financial statement

Sue Searle is in the import business. The following balances were extracted from her books on 31 March 2009. $

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td>95 800</td>
</tr>
<tr>
<td>Purchases</td>
<td>48 340</td>
</tr>
<tr>
<td>Returns outwards</td>
<td>960</td>
</tr>
<tr>
<td>Inventory at 1 April 2008</td>
<td>10 780</td>
</tr>
<tr>
<td>Wages of motor vehicle driver</td>
<td>11 500</td>
</tr>
<tr>
<td>Motor vehicle running expenses</td>
<td>6 500</td>
</tr>
<tr>
<td>Motor vehicles at cost</td>
<td>20 000</td>
</tr>
<tr>
<td>Provision for depreciation of motor vehicle at 1 April 2008</td>
<td>15 000</td>
</tr>
<tr>
<td>Premises</td>
<td>60 000</td>
</tr>
<tr>
<td>Provision for depreciation of premises at 1 April 2008</td>
<td>12 000</td>
</tr>
<tr>
<td>Rent and insurance</td>
<td>7 700</td>
</tr>
<tr>
<td>Light and heat</td>
<td>4 950</td>
</tr>
<tr>
<td>General and marketing expenses</td>
<td>6 200</td>
</tr>
<tr>
<td>Discount received</td>
<td>5 300</td>
</tr>
<tr>
<td>Rent received</td>
<td>560</td>
</tr>
<tr>
<td>8% Bank loan repayable 30 June 2011</td>
<td>30 000</td>
</tr>
<tr>
<td>Cash</td>
<td>270</td>
</tr>
<tr>
<td>Bank overdraft</td>
<td>1 680</td>
</tr>
<tr>
<td>Accounts Receivable</td>
<td>18 500</td>
</tr>
<tr>
<td>Accounts Payable</td>
<td>9 750</td>
</tr>
<tr>
<td>Drawings</td>
<td>11 310</td>
</tr>
<tr>
<td>Capital at 1 April 2008</td>
<td>35 000</td>
</tr>
</tbody>
</table>

Additional information:

1. Inventory at 31 March 2009 was valued at $12 600.
2. Depreciation is to be charged on the premises at the rate of 2% per annum on cost using the straight line method and on the motor vehicle at 20% per annum using the reducing balance method.
3. The loan interest is outstanding at 31 March 2009.
4. Insurance, $450, was prepaid at 31 March 2009.
5. Electricity for lighting, $130, was due at 31 March 2009.

(a) Prepare the Income Statement for Sue Searle for the year ended 31 March 2009
(b) Prepare the Financial Position for Sue Searle as at 31 March 2009.
Day: 4
Requirement: Do the Trial Balance

(A) Prepare a Trial balance for Mr. Aslam

\[
\begin{align*}
\$ & \\
\text{Sales} & 190,576 \\
\text{Purchases} & 119,832 \\
\text{Salaries} & 56,527 \\
\text{Motor expenses} & 2,416 \\
\text{Rent} & 1,894 \\
\text{Insurance} & 372 \\
\text{General expenses} & 85 \\
\text{Premises} & 95,420 \\
\text{Motor vehicles} & 16,594 \\
\text{Accounts Receivable} & 26,740 \\
\text{Accounts Payable} & 16,524 \\
\text{Bank} & 16,519 \\
\text{Cash} & 342 \\
\text{Drawings} & 8,425 \\
\text{Capital} & 138,066
\end{align*}
\]

(A) Prepare a Trial balance for S M Salam, Also find the out the Capital.

\[
\begin{align*}
\$ & \\
\text{Inventory 1 October 2018} & 41,600 \\
\text{Carriage outwards} & 2,100 \\
\text{Carriage inwards} & 3,700 \\
\text{Sales Returns} & 1,540 \\
\text{Purchases Returns} & 3,410 \\
\text{Purchases} & 188,430 \\
\text{Sales} & 380,400 \\
\text{Salaries and wages} & 61,400 \\
\text{Warehouse rent} & 3,700 \\
\text{Insurance} & 1,356 \\
\text{Motor expenses} & 1,910 \\
\text{Office expenses} & 412 \\
\text{Lighting and heating expenses} & 894 \\
\text{General expenses} & 245 \\
\text{Premises} & 92,000 \\
\text{Motor vehicles} & 13,400 \\
\text{Fixtures and fittings} & 1,900 \\
\text{Accounts Receivable} & 42,560 \\
\text{Accounts Payable} & 31,600 \\
\text{Bank} & 5,106 \\
\text{Drawings} & 22,000 \\
\text{Capital} & ?
\end{align*}
\]
Day: 5

Requirement: Do the Trial Balance

(A) Prepare a Trial balance for Linkon trader

$  
Capital 49,675  
Drawings 28,600  
Bank 4,420  
Cash 112  
Accounts Receivable 38,100  
Accounts Payable 26,300  
Inventory 30 September 2017 72,410  
Van 5,650  
Office equipment 7,470  
Sales 391,400  
Purchases 254,810  
Sales Returns 2,110  
Carriage inwards 760  
Purchases Returns 1,240  
Carriage outwards 2,850  
Motor expenses 1,490  
Rent 8,200  
Telephone charges 680  
Wages and salaries 39,600  
Insurance 745  
Office expenses 392  
Sundry expenses 216  

(B) Prepare a Trial balance for Furniture store LTD. Also find the out the Capital.

Inventory 1 April 2018 52,800  
Revenue 276,400  
Purchases 141,300  
Carriage inwards 1,350  
Carriage outwards 5,840  
Purchases Returns 2,408  
Wages and salaries 63,400  
Business rates 3,800  
Communication expenses 714  
Commissions paid 1,930  
Insurance 1,830  
Sundry expenses 208  
Buildings 125,000  
Accounts Receivable 45,900  
Accounts Payable 24,870  
Fixtures 1,106  
Bank 31,420  
Cash 276  
Drawings 37,320  
Capital ?
<table>
<thead>
<tr>
<th>Subject</th>
<th>Day</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bangladesh Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Geography</strong></td>
<td>Day 3</td>
<td>Revise topic 5(c) Trends in human development indicators</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do worksheet 36 of your Workbook. Page: 163</td>
</tr>
<tr>
<td></td>
<td>Day 4</td>
<td>Revise topic 9(a) Population structure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do worksheet 49 of your Workbook. Page: 178</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td>Day 5</td>
<td>Revise the first 5 Reasons for the Decline of the Mughal Empire (Topic 3b)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do half of the worksheet 32 of your Workbook. Page: 37 &amp; 38</td>
</tr>
<tr>
<td></td>
<td>Day 6</td>
<td>Revise the last 5 Reasons for the Decline of the Mughal Empire (Topic 3b)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do the rest half of the worksheet 32 of your Workbook. Page: 38 &amp; 39</td>
</tr>
<tr>
<td><strong>Biology</strong></td>
<td>Day 2</td>
<td>Movement of substances</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A. Read the Chapter – Movement of Substances</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Solve Past Paper pg no. 24-27 and pg-29-30</td>
</tr>
<tr>
<td></td>
<td>Day 3</td>
<td>A. Read the Chapter - Respiration in Human</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Make a model Respiratory system</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference <a href="https://www.youtube.com/watch?v=6oMFAMqSlq4">https://www.youtube.com/watch?v=6oMFAMqSlq4</a></td>
</tr>
<tr>
<td></td>
<td>Day 4</td>
<td>Nutrients</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A. Read the Chapter - Nutrients</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Solve Past Paper page 47-49</td>
</tr>
<tr>
<td></td>
<td>Day 5</td>
<td>Nutrition in human</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A. Read the Chapter 5 –Nutrition in Human</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Solve Past Paper page no. 72-84</td>
</tr>
<tr>
<td><strong>Physics</strong></td>
<td>Day 2</td>
<td>Read Chapter 7 and go through all the worked example</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Test yourself 7.1 (pg126)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Section A, Section B-1,2 (pg141)</td>
</tr>
<tr>
<td></td>
<td>Day 3</td>
<td>Read Chapter 7 and go through all the worked example</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Test yourself 7.2, 7.3(pg132, pg139)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Section C (pg141)</td>
</tr>
<tr>
<td></td>
<td>Day 4</td>
<td>Read Chapter 8 and go through all the worked example</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Test yourself 8.1, 8.2 (pg145, pg150)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Section C (pg152)</td>
</tr>
<tr>
<td></td>
<td>Day 5</td>
<td>Read Chapter 8 and go through all the worked example</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Test yourself 9.1, 9.2, 9.3 (pg158, pg163)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solve Section A (pg165)</td>
</tr>
</tbody>
</table>
### Commerce - 7100

**Day 2**

Commerce course book second edition
Chapter-2 Page 15 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Chapter-3 Page 21 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page 21 Short Questions 3-5
Chapter-4 Page-25 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page-25 Short Questions 4

**Day 3**

Commerce course book second edition
Chapter 5 Page 34, 35 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page 34 Short Questions 5
Chapter 6 Page 47 Multiple Choice Questions 1-5 (just right the correct option in your copy)
DEFINE RETAILERS WITH SHOPS WITH ONE EXAMPLE EACH. (Unit retailers, Specialty shops, Department Stores, Multiple Chain Stores, Super Markets, Hyper Markets)
Chapter 7 Page 52,53 Multiple Choice Questions 1-5 (just right the correct option in your copy)

**Day 4**

Commerce course book second edition
Chapter 8 Page-66 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page 65 Short Questions 4
Chapter 9 Page 71, 72 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page 71 Short Questions Question 4
Chapter 10 Page 79,80 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page 79 Question 5

**Day 5**

Commerce course book second edition
Chapter 11 Page- 90,91 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page- 90 Short Question-5
Chapter 12 Page- 99,100 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page-99 Short Question-5
Chapter 13 Page-104,105 Multiple Choice Questions 1-5 (just right the correct option in your copy)
Page-104 Question-5

### Economics - 2281

**Homework – Day 2**
- Read Chapter 14
- Solve MCQ (1 to 4), pg. 110
- Write Answers - a, b, c, d. Pg. 110

**Homework – Day 3**
- Read Chapter 15
- Solve MCQ (1 to 4), pg. 120
- Write Answers - a, b, c, d. Pg. 121

**Homework – Day 4**
- Read Chapter 16
- Solve MCQ (1 to 4), pg. 134
- Write Answers - a, b, c, d. Pg. 134

**Homework – Day 5**
Write answers, pg. 126. Four parts question 1(a, b, c & d)
## Environmental Management - 5014

### Homework – Day 3
Read Chapter 1 TBpg-42-43 thoroughly.
Write Answers – How does oil spill impact a marine ecosystem? In your test pad page.

### Homework – Day 4
Read Tb page 51-56 thoroughly.
Write Answers – 3.3 in your test pad page.

### Homework – Day 5
Do the exercise 1.3 the impact of rock and mineral extraction in WB pg. 16-17

### Homework – Day 6
Do the exercise 2.1 Fossil Fuels WB pg. 23-24

## Business Studies - 7115

### Day 2
- a. Exam Style questions 1 (page 75)
- b. Exam Style questions 2 (page 90)

### Day 3
- a. Exam Style questions 2 (page 113)
- b. Exam Style questions 2 (page 128)

### Day 4
- a. Exam Style questions 1 (page 142)
- b. Exam Style questions 1 (page 18)

### Day 5
- a. Exam Style questions 2 (page 10)
- b. Exam Style questions 1 (page 60)

## Computer Science - 2210

### Day 2
Tuba creates a logic circuit.
She uses three different logic gates in his circuit. Each logic gate has a maximum of two inputs.
She describes the logic of each gate.

(a) “The only time the output will be 1 is when both inputs are 1.”
State the single logic gate ...................................................
Draw the single logic gate.

(b) “The only time the output will be 1 is when both inputs are 0.”
State the single logic gate ...................................................
Draw the single logic gate.

(c) “The only time the output will be 0 is when both inputs are 1.”
State the single logic gate ...................................................
Draw the single logic gate.

### Day 3
1. Write an algorithm to input 30 numbers and output the total of these numbers using 3 different loop structures.
2. Write an algorithm to print following numbers using 3 different loop structures. 31,35,39,43,47

### Day 4
1. Write an algorithm to input 50 numbers and find the largest number so far.
2. Write an algorithm to input 50 numbers and find the smallest number so far.
3. Write an example of REPEAT Until Loop.
The contents of three binary registers have been transmitted from one computer to another. **Even parity** has been used as an error detection method.

The outcome after transmission is:
- **Register A** and **Register C** have been transmitted **correctly**.
- **Register B** has been transmitted **incorrectly**.

Complete the **Parity bit** for each register to show the given outcome.

<table>
<thead>
<tr>
<th>Parity bit</th>
<th>0</th>
<th>1</th>
<th>0</th>
<th>0</th>
<th>1</th>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Register A</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Register B</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Register C</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>