

Pak Turk International Schools & Colleges Islamabad, Pakistan

Computer Science Section

Summer Home Work 2010

Class 10th Metric

30 Mints Daily Typing Practice on any Typing Tutor Software.

Daily One exercise of writing practice on any book available from market. (By using lead pencil).

Chapter # 5 (DATA REPRESENTATION)

Q#1: Define the term Data and Information?

Q#2: Define the types of Data?

Q#3: Convert the following decimal numbers into their binary equivalent.

(i) 103 (ii) 193 (iii) 39.875 (iv) 31.625

Q#4: Convert the following binary numbers into their decimal equivalent.

(i) 101011 (ii) 1001110 (iii) 1010.1101 (iv) 11010.10001

Q#5: Convert the following decimal numbers into their Octal equivalent.

(i) 43 (ii) 291 (iii) 1101 (iv) 2010

Q#6: Convert the following Octal numbers into their Decimal equivalent.

(i) 71 (ii) 1010 (iii) 1734 (iv) 2345

Q#7: Convert the following decimal numbers into their Hexadecimal equivalent.

(i) 37 (ii) 405 (iii) 2313 (iv) 1234

Q#8: Convert the following hexadecimal numbers into their decimal equivalent.

(i) ABC12 (ii) BA4C (iii) BBC1 (iv) 29E

Q#8: Perform Binary Addition

(i) 11011 + 1001 (ii) 101011+10111 (iii) 1110111+1010111]

Q#9: Perform Binary Subtraction

(i) 10110 – 10011 (ii) 11011011 – 10010111 (iii) 11001111 – 10011100

Q#10: Perform Binary Division

- (i) 11101 by 101
- (ii) 1101 by 11101010
- (iii) 10111 by 1101101010

Q#11: Find 2's Complement and 1's Complement of the following numbers

- (i) 101 (ii) 101100 (iii) 101011 (iv) 10101

Q#12: Subtraction of the following numbers in binary system using 1's and 2's complement method.

- (i) 11011 from 10010
- (ii) 10001 from 10101
- (iii) 10010 from 11010

Chapter # 9 (PROBLEM SOLVING)

Q#1: Write down the steps for Program Preparation

Q#2: What is flow chart?

Q#3: Draw and Define flow chart symbols?

Q#4: Develop the flow charts of the following situations.

- (i) Develop a flowchart showing the procedure for consulting the teacher for his problem
- (ii) Develop a flowchart for preparing Tea
- (iii) Develop a flowchart for showing the procedure to find the dividing the two values

Q#5: What is algorithm?

Q#6: What is meant by computer program?

Q#7: What is debugging?

Q#8: Mention and define the errors occur in the computer program?

SUMMER VACATION HOMEWORK

Class: 10th - M

Subject: Chemistry

Name: _____

- Q.1. A student is asked to prepare H₂ gas in the laboratory by using dilute nitric acid.
- Which metal will he/she use for the purpose?
 - If he/she uses copper metal, which gas(es) he/she can expect.
 - How is methyl alcohol produced from hydrogen (give equation)?
- Q.2 Silicones are very useful compounds of silicon.
- briefly describe structure of methyl silicon .
 - Give at least two properties and uses of silicones.
- Q.3 Water reacts with metals in many ways depending upon their nature.
- To which metals it reacts to produce hydroxides.
 - Give equations of any two such reactions.
 - Under which conditions iron reacts with water. Give equation.
- Q. 4 Hydrogen is said to a good reducing agent.
- What is a reducing agent?
 - Give an example of its reducing properties.
 - What is the usefulness of hydrogen due to this property?

Q. 5 Coal is used to make coke.

- a. How is coke produced from it?
- b. Differentiate between charcoal and activated charcoal.
- c. Give two uses of carbon black

Q. 6 It is harmful to sleep in a poor ventilated room with burning coal or gas heater

- a. Name the gases causing threat to life
- b. How are these gases dangerous for life?

Q. 7 Hydrogen per oxide is a very useful compound

- a. Briefly describe its preparation
- b. Give any two uses of hydrogen per oxide

Q. 8 Hard water produces curds with soap instead of making good lather.

- a. Briefly describe types of hardness of water.
- b. Describe the appropriate method to be used when both types of hardness of water are present at the same time.

- a. Describe disadvantages of hard water.
- Q. 9
- a. Briefly describe structural differences b/w diamond and graphite.
 - b. Write a detailed note on silicates
 - c. Give uses of sodium silicate

Summer Vacation Home Work – 2010

Class – 10M

Note: – All the assigned work must be done in legible and presentable good hand writing in a separate register. It must be the integral part of your memory.

Section –1 (Prose)

Answer the following questions in 3 – 4 lines.

1. Prophet Muhammad (SAW) as an Educationist

1. What was the first revelation received in the cave of Hira?
2. What steps were taught for “education” to the Holy Prophet (SAW) by the Almighty Allah?
3. What condition was imposed on the prisoners of the battle of Badr?
4. What question did the holy Prophet (SAW) ask before concluding his address to the Ansar?
5. What Kind of gestures made his speech effective?
6. How did the Holy Prophet (SAW) teach effectively?
7. How did the Holy Prophet (SAW) demonstrate the sight of Doomsday?
8. How can you prove that the holy prophet (SAW) was great lover of knowledge and learning?
9. How did the holy prophet (SAW) explain the concept of closeness?
10. Why the Holy Prophet (SAW) is called the greatest educationist?

2. Festivals of Pakistan

1. Define the term “festival.” Why is it celebrated?
2. What are our religious festivals? How are they celebrated?
3. Give a short detail of the festivals celebrated on the shrines of the great saints.
4. What are our political festivals? Give the importance of their celebrations.
5. When and how is Eid ul Azha celebrated?

6. What is the importance of festivals for artisans?
7. What is the importance of Lok – Melas?

3. The difference between a Brain and a Computer

1. Explain the construction and composition of human brain.
2. Explain the difference between human brain and a computer?
3. How long will it take to build a computer complex enough to duplicate the human brain?
4. Can computers think? Explain your answer.
5. Do you think that a computer has an ability to take over the world? Why or why not?
6. Explain how does a computer solve mathematical problems?
7. Explain the limitations of a computer and a human brain?
8. What do you mean by “Complexity Explosion”?

5. Hazrat Ayesha (R.A)

1. Who was Hazrat Ayesha (R.A)? How was she brought up?
2. How did Hazrat Ayesha (R.A) secure the most authentic reporter of Holy prophet's traditions?
3. Why Hazrat Ayesha (R.A) was universally recognized?
4. What role did she play during the period of pious Caliphs?
5. For what did Hazrat Ayesha (R.A) distinguish?
6. Explain the strength of Hazrat Ayesha's (R.A) character?
7. Give short details of Hazrat Ayesha's (R.A) generosity, simplicity and modesty?
8. Summarize the services of Hazrat Ayesha (R.A) to promote knowledge and Islamic jurisprudence.

6. Transport

1. Explain how does modern transport differ from the old?
2. What is transport? Give its importance.
3. What is the significance of internal combustion engine for modern transport?
4. What are the types of transport? Discuss with the special reference to railway.
5. Which transport is widely used in the country? Why?

6. Compare air transport with that of water and road transport?
7. Discuss the importance of transport for the economic life of the country.
8. Why do people move around in the country?
9. What is auto traffic?
10. How did the people used to go their work places in the past?

Section -II (Poetry)

Read the given stanza and answer the following questions.

Little Things --- (Julia A. Carney)

Stanza -1

All things bright and beautiful,

All creatures great and small,

All things wise and wonderful,

The Great made them all.

Questions:

1. Paraphrase the stanza.
2. Pick out pair of rhyming words.
3. How can you say that Allah is the master creator?

Stanza -2

Each little flower that opens,
Each little bird that sings,
He made their glowing colours,
He made their wings.

Questions:

1. Paraphrase the stanza.
2. How can a little flower or a tiny bird be the manifestation of God's glory?

Stanza -3

The purple headed mountains,
The river running by,
The sunset and the morning,
That brightens up the sky.

Questions:

1. Paraphrase the stanza.
2. Pick out pair of rhyming words.
3. How can we detect the presence of God through the objects of nature?

Stanza -4

The cold wind in the winter,
The pleasant summer sun,
The ripe fruit in the garden,
He made them every one.

Questions:

1. Paraphrase the stanza.
2. Why has God created different seasons?
3. Pick out pair of rhyming words

Stanza –5

The tall trees in the greenwood,
The meadows where we play,
The rushes by water,
We gather every day.

Questions:

1. Paraphrase the stanza.
2. Pick out pair of rhyming words.
3. How can we detect the presence of God through the objects of nature?

Stanza –6

He gave us eyes to see them,
And lips that we might tell,

How great is God Almighty,

Who has made all things well?

Questions:

1. Paraphrase the stanza.
2. Pick out pair of rhyming words.
3. Trace out the logic behind that why are we given eyes and lips?

A Nation's Strength --- (Ralph Waldo Emerson)

Stanza -1

Not gold but only men can make

A people great and strong

Men who, for truth and honour's sake,

Stand fast and suffer long.

Questions

1. Paraphrase the given stanza
2. Who can make their nation great?
3. Why are the men of character are more valuable than gold?

Stanza -2

Brave men who work while others sleep,

Who dare while others fly,
They build a nation's pillars deep,
And lift them to the sky.

Questions:

1. Paraphrase the stanza.
2. Pick out pair of rhyming words.
3. Explain how do men of character are the real asset of a nation?

Section -III (Grammar)

1. Write an essay of about 150 – 200 words on each of the following topics. (Do remember to practice and memorize)

- a) Mobile Phone
- b) Courtesy
- c) Good manners/mannerism
- d) Importance of libraries
- e) Village life
- f) My Ambition
- g) Sports and games

2. Write and practice the following forma letters.

- a) To the health officer/ Nazim of your area about bad sanitary conditions of your locality.

- b) To the senior superintendent police of your area inviting his attention to the increasing crimes in your area.
- c) To the editor of a newspaper with the request to generate public opinion about the need of national unity.
- d) To the chairman CDA to check the reckless cutting of trees from the capital city.
- e) To the chairman Nation Book Foundation with the request to revise the old facts and figures given in your text books.

3. Comprehension of a passage.

Exercise # 1 – exercise 15

Page 38 – 45 (English Grammar and Composition)

4. Define and explain with examples the following grammatical terms.

- a) Noun – types of noun
- b) Pronoun – types of pronoun
- c) Verb – types of verb
- d) Types of sentences

PAK-TURK INTERNATIONAL SCHOOLS & COLLEGES, ISLAMABAD

Summer vacations' Home work 2010-11

Subject: Pakistan Studies

Class: 10th-M

SECTION 'A'

A. Insert the correct option i.e. A/B/C/D in the empty box opposite each part.

1. Ideology represents the _____ consciousness of a group of people.
A) Individual B) Normal C) Collective D) Social
2. Touheed and _____ form the basis of the Islamic way of life.
A) Prayer B) Risalat C) Zakat D) Sovereignty
3. _____ means, all powers belong to the Almighty Allah.
A) Touheed B) Taqwa C) Democracy D) Sovereignty
- 4) The Quaid e Azam started his political career in the year _____.
A) 1903 B) 1906 C) 1913 D) 1920
- 5) The congress aimed at securing the right of _____ for India.
A) Self Government B) Separate Electorate
C) Hindu Muslim Unity D) Self Determination
- 6) Jinnah joined Muslim League in the year
A) 1903 B) 1906 C) 1913 D) 1920
- 7) The Muslim League and the Congress held their joint session in the year
A) 1906 B) 1916 C) 1926 D) 1930
- 8) The joint session of the both parties held at
A) Karachi B) Bombay C) Lucknow D) Lahore
- 9) Jinnah's efforts earned him the title of the _____ of Hindu Muslim Unity.

A) Leader B) Representative C) Ambassador D) Lord

10) The All India Muslim League was formed in _____.

A) Karachi B) Bombay C) Dacca D) Lahore

11) Jinnah resigned congress in _____.

A) 1906 B) 1913 C) 1918 D) 1920

12) The first session of Constituent Assembly of Pakistan was held at

A) Karachi B) Islamabad C) Rawalpindi D) Lahore

13) The Lukhnow Pact was done in the year

A) 1906 B) 1913 C) 1918 D) 1920

14) The East India Company conquered Delhi in the year

A) 1857 B) 1876 C) 1886 D) 1901

15) Allama Iqbal delivered his presidential speech in Allahabad in the year

A) 1910 B) 1920 C) 1930 D) 1940

16) Shah Waliullah was born in the year

A) 1700 B) 1703 C) 1706 D) 1709

17) Shah Waliullah received his early education at Madrasah _____.

A) Naeemiyah B) Rahimiyah C) Al Islam D) Brelvia

18) Sayyed Ahmed Shaheed organized the _____ movement.

A) Pakistan B) Islam C) Jihad D) Revivalist

19) Sayyed Ahmad was born at

- A) Rai Bareli B) Baghdad C) Calcutta D) Lahore
- 20) Sayyed Ahmad Shaheed was born in the year
- A) 1784 B) 1785 C) 1786 D) 1787
- 21) Sayyed and his companions decided to wage Jihad against the
- A) Hindus B) Jews C) British D) Sikhs
- 22) Jihad was started in the year
- A) 1824 B) 1825 C) 1826 D) 1927
- 23) Shari'at Ullah was born in
- A) 1780 B) 1781 C) 1782 D) 1783
- 24) Shari'at Ullah returned form Hijaz in
- A) 1818 B) 1819 C) 1820 D) 1921
- 25) _____ was the founder of the Faraizi Movement.
- A) Shari'at Ullah B) Sayyed Ahmad C) Shah Ismail D) Shah Waliullah
- 26) The Mughal power began to decline in the beginning of the _____ century.
- A) 16th B) 17th C) 18th D) 19th
- 27) War of independence was fought in the year
- A) 1857 B) 1858 C) 1859 D) 1860
- 28) Sir Sayyed Ahmad Khan was born in
- A) 1815 B) 1816 C) 1817 D) 1818
- 29) Sir Sayyed Ahmad Khan established MAO College at
- A) Delhi B) Lahore C) Aligarh D) Ahmadabad
- 30) Sir Sayyed Ahmad Khan established The Scientific Society in the year

- A) 1860 B) 1861 C) 1862 D) 1863

31) The Indian National congress was established in the year

- A) 1885 B) 1886 C) 1887 D) 1888

32) Mohammad Educational Conference was founded by

- A) Sir Sayyed Ahmad Khan B) Allama Iqbal
C) Sir Agha Khan D) Moulvi Fazal e Haq

33) In _____, the province of Bengal was divided into two parts.

- A) 1903 B) 1905 C) 1907 D) 1909

34) At the time of the partition of Bengal, _____ was the Viceroy of India.

- A) Lord Minto B) Mount Batten C) Lord Wavel D) Lord Curzen

35) Partition of Bengal was annulled in the year

- A) 1906 B) 1909 C) 1911 D) 1913

36) Most of the Muslim demands acceded to under the Minto Morley Reform _____

- A) 1909 B) 1911 C) 1913 D) 1915

37) The Muslim League's Manifesto was redesigned in the year

- A) 1909 B) 1910 C) 1911 D) 1912

38) The Lucknow Pact was base upon the principle of Self _____ for the Indian people.

- A) Determination B) Motivation C) Government D) Revolution

39) By the year _____, Hindu Mahasabha, an extremist political group, managed to
Overpower the congress.

- A) 1926 B) 1928 C) 1930 D) 1932
- 40) The Quaid e Azam gave a fourteen point formula in the year _____
- A) 1929 B) 1930 C) 1931 D) 1940
- 41) The Muslim League and the Congress rejected the _____ proposals.
- A) Wavel B) Minto C) Simon D) Curzen
- 42) First session of the Round Tables conference was held in the year
- A) 1930 B) 1931 C) 1932 D) 1933
- 43) Muslims were represented at the Round Table conferences by _____
- A) Quaid e Azam B) Allama Iqbal C) Sir Agha Khan D) Ch. Rehmat Ali
- 44) The British government framed a constitutional bill and got it passed in February _____
- A) 1929 B) 1931 C) 1933 D) 1935
- 45) The Government of India Act came into force in April _____
- A) 1935 B) 1937 C) 1939 D) 1942
- 46) Disappointed with the attitude of both Muslims and non Muslim leaders the Quaid e Azam decided to settle in _____
- A) Saudi Arabia B) England C) America D) France
- 47) Quaid e Azam changed his mind and return to India in the year
- A) 1935 B) 1940 C) 1942 D) 1945
- 48) In the election 1937, _____ was returned with an absolute majority.
- A) Muslim League B) Unionist Party C) Congress D) Labour Party
- 49) In 1938 _____ provincial Assembly passed a resolution demanding the establishment of an independent Muslim state.
- A) Sindh B) Punjab C) NWFP D) Balochistan

50) _____ was the first Muslim who categorically denounced federalism.

- A) Ch Rehmat Ali B) Quaid e Azam C) M. Ali Jouhar D) Allama Iqbal



SECTION 'B'

Note: Answer the following questions in your own words.

1. Define ideology.
2. Describe sources of ideology.
3. Narrate significance of ideology.
4. Explain concept of Touheed.
5. What is Sovereignty?
6. What two cardinal principles of Islamic Ideology
7. What do you know about 'Two Nation Theory'?
8. "Justice is the most important fundamental principles of Islamic society" Discuss briefly.
9. What is democracy?
10. What is the basis of Muslim nationhood?
11. Define "Ijtihad"
12. What are fundamental principles of an Islamic society?
13. State at least five responsibilities of citizens of an Islamic Society.
14. Who was the founder of the Faraizi Movement? What did he preach?
15. What was Shah Waliullah?
16. What do you mean by Patriotism?
17. When did the Quaid e Azam join Muslim League and Why?
18. When and where did the Muslim League and Indian Nation Congress gather for joint session?
19. Write a short note on Sir Sayyed Ahmed Khan's early life?
20. When was the Indian National Congress established and why?
21. What do you know about the Simla Deputation?
22. When was the Muslim League founded and who was its first president?
23. Describe primary objectives of the Muslim League.

24. Who was the Viceroy of India at the time of the partition of Bengal, when and why this partition annulled?
25. Name the three most important demands of the Simla deputation?
26. When and on whose initiative the Muslim League resolved to struggle for self rule in India?
27. When was the Muslim League's manifesto redesigned?
28. When did the Quaid e Azam resign the Indian National Congress?
29. When was the Nehru Report published?
30. When Shah Waliullah (RA) was born? Also give the name of his father and Madrasah?
31. What was the popular name of Mohsin ud din, where and when he died?
32. Who was the chief architect of Lucknow Pact?
33. When did the Quaid e Azam promulgate his fourteen points?
34. When did the first session of the round table conferences held?
35. Which provinces were given provincial status after Round Table Conferences?
36. When was the Government of India Act promulgated?
37. Why did the Quaid e Azam decide to settle in England and why?
38. When did the Quaid e Azam return to India and why?
39. Describe most important part of the Lahore Resolution.
40. Write a note on Simla Conference.

SECTION 'C'

Note: Answer the following questions extensively.

1. Define and explain the ideology of Pakistan.
2. Explain Pakistan Ideology in the Islamic perspective.
3. Explain Pakistan Ideology in the light of the statement of the Quaid e Azam (RA)
4. Explain Pakistan Ideology in the light of the statement of the Allama Iqbal (RA)
5. Ideology demands national character. Explain.
6. Write a detailed note on Touheed and Risalat.
7. Write detailed note on Shah Wali Ullah's services.
8. Describe educational and political services of Sir Sayyed Ahmad Khan.
9. Write a comprehensive note on Sayyed Ahmad (RA) Shaheed and his Jihad Movement.
10. Give a critical account of the Faraizi Movement.
11. Write a detailed note on Simla Deputation.
12. Describe the main clauses and the significance of the Lucknow Pact 1916.

13. Write a note on the Nehru Report.
14. Describe Fourteen Points of Mr. Jinnah.
15. Enumerate the causes leading the formation of the All India Muslim League. Give an account of the League's primary aims and objectives.

MATHEMATICS

S.V. Home-Work Table (10 Metric)

1. ALGEBRIC SENTENCES

Exercise No.	Question No.	Part No.
1.1	6	Complete
	7	Complete

1.2	1	(ii),(iii) & (vii)
	2	-
	4	-

1.3	2	-

1.4	1	Complete
	2	Complete

1.5	Find the solution...	2, 4, 6, 7

1.6	Find the solution set of following....	(xii), (xvi), (xvii), (xviii)

1.7	Find the solution	(viii), (x), (xii), (xiii), (xiv)

<hr style="border-top: 1px dashed red;"/>		
1.8	1	(vii)
	2	(vi), (ix)
<hr style="border-top: 1px dashed red;"/>		
1.9	2	(iv), (v)
	3	(ii), (iv), (vii)
<hr style="border-top: 1px dashed red;"/>		
1.10	2	(ii), (iii)
	3	(vi), (vii), (xi)
<hr style="border-top: 1px dashed red;"/>		
1.11	2	(v), (vii), (viii), (ix)
<hr style="border-top: 1px dashed red;"/>		
1.12	2	(vi), (viii)
	3	(ii), (vii)
<p>*****</p>		
<h2>2. ELIMINATION</h2>		
<p>Complete Exercise</p>		
<p>*****</p>		
<h2>3. VARIATIONS</h2>		

Complete Exercise

4. INFORMATION HANDLING

Exercise No.	Question No.	Part No.
4.2	3	-
	6	-
	7	-

4.3	2	Complete
	6	
	7	Complete
	14	-
	15	-
	16	Complete
	18	-

4.4	6	Complete
	8	-
	9	-
	10	-
	11	-
END		



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