

SAINIK SCHOOL IMPHAL
SUMMER VACATION
HOMEWORK/ASSIGNMENT
CLASS VIII
2023-24

SUBJECT: COMPUTER SCIENCE

Instructions:

- Homework/Assignment should be done in A4 size paper. Please write only on one side of the page.
- Minimum no. of pages required is 13 pages.
- **The complete assignment should be hand written.** Printing of assignment is not allowed. One topic should be written in one page only.
- Search the topics in Internet.

I. Write an assignment on the various Operating Systems. The following operating systems should be included:

- MS DOS
- Windows Operating System
- Linux Operating Systems
- Solaris Operating Systems
- Symbian Operating Systems
- Android Mobile Operating Systems
- iOS Mobile Operating Systems
- Apple macOS
- BOSS
- Ubuntu Operating System

The sequence of the assignment should be as follows:

- Cover Page
- Contents
- Introduction
- Explaining the various topics

Details are given below.

Cover Page

“Operating Systems”

An assignment submitted
for Term 1 Examination: 2023-24

Submitted By:

Cdt

Adm No

Class... Section ...

Submitted To:

Sir Tiken

TGT Computer Science

SAINIK SCHOOL IMPHAL

2nd Page

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Introduction

Introduction

(Write a short note on Computer and Mobile Operating Systems in about 200 words)

MS DOS

(Explain in detail about the MS DOS in this page in about 200 words.)

Windows Operating System

(Explain in detail about the Windows Operating System in this page in about 200 words.)

Linux Operating System

(Explain in detail about the Linux Operating System in this page in about 200 words.)

Solaris Operating System

(Explain in detail about the Solaris Operating System in this page in about 200 words.)

Symbian Operating System

(Explain in detail about the Symbian Operating System in this page in about 200 words.)

Android Mobile Operating System

(Explain in detail about the Android Mobile Operating System in this page in about 200 words.)

iOS Mobile Operating System

(Explain in detail about the iOS Mobile Operating System in this page in about 200 words.)

Apple macOS

(Explain in detail about the Apple macOS in this page in about 200 words.)

BOSS

(Explain in detail about the BOSS in this page in about 200 words.)

Ubuntu Operating System

(Explain in detail about the Ubuntu Operating System in this page in about 200 words.)

Subject Teacher: - THOKCHOM MENEKA DEVI

Section A : - Project / Topic

Manipurgi Nupi writer mangagi maramda shaktache (photo) naplaba chart ama semduna madugi maramda erak-u

Section B : - Creative Writing

Nakhoigi leikaida thengnakhiba / takhiba angang eshing taba / Meihou Langpok / gari accident amagi maramda irak-u

Section C: - Home work based on Text Book for BOSEM

- (a) Chapter 1: - Kavina ishorbu maphm kadai kadai chattuna thirubage?
- (b) Chapter 2: - Yumda ethakthongba ahal laman shingda ekha thabasingna kounaba minggou khara erak-u
- (c) Chapter 3: - Tense amadi root ki maramda sugaina tak-u loinana khudam piduna tak-u
- (d) Grammar:- Tense amadi root ki maramda sugaina tak-u loinana khudam piduna tak-u

Social Science

Teacher: PD James & Th. Thoiba

Class VIII (History & Civics)

Q.1 Name the battles and wars of India with their years and the rulers or countries fought.

Q.2 Name the British rulers of India and the changes or reforms brought by them in India.

Q.3 Name the important Acts and the dates that became the landmarks in the Constitutional development of India.

Q.4 What were the causes of the Revolt of 1857? Also name the leaders and their centres of revolt.

Q.5 What is Panchayati Raj? How is it different from Municipalities or Municipal Corporation?

Class VIII (Geography)

Discuss on problems and solutions of slum dwellers of India. Present it in A4 size paper within 600 words only. Photos can be included in the presentation.

Sub: Science

1. What makes the things visible to us? Is it possible to see objects in dark?
2. Why does the moon change its shape every day?
3. Why we never see the back side of the moon (we see the same surface) from the Earth?
4. Can we hear any sound on the moon? Why don't we hear the sound of nuclear reactions taking place in the sun?
5. There is one star in the sky which does not move at all. Name the star. How is it possible? Is this star visible in Australia a country in the southern hemisphere?
6. How does CO₂ content rise in the atmosphere and become excessive that leads to the global warming?
7. You are a member of the municipal body of your town. Make a list of measures that would help your town to ensure the supply of clean water to all its residents.
8. Explain how the use of CNG in automobiles has reduced pollution in our cities.

Note: If you have any doubt in question and answer you can contact me

A Sochen singh
Sainik School Imphal

Subject: Manipuri

Subject Teacher: M Jiten Singh

1. ਘੋਯਚੀਓਂ ਚੁਠੁਯਘੁ ਚੋਚੁਠ ਯੋਓਯ ਘੁਯੀਯੀ ਯੋਘੁਘੁ ਚੁਠੁ ॥
2. ਘੋਠੀਯੀ ਚੋਠ-ਚੋਠੁਘੁ ਘੁਘੁਯੀ ਘੁਯੀਯੀ ਘੁਘੁਘੁ ਯੋਘੁ ਚੁਠੁ ॥
3. ਘੁਠੀਯੀ ਯੋਠੀਯੀ ਘੁਯੀਯੀ ਯੋਠੁਠੁਘੁ ਚੁਠੁ ॥

ਘੋਯਚੀਓਂ, ਚੁਠੁਯਘੁ, ਚੋਚੁਠ, ਯੋਓਯ, ਘੁਯੀਯੀ, ਯੋਘੁਘੁ, ਚੁਠੁ

4. ਘੁਘੁ ਘੁਘੁਠੁ ਘੁਠੀਯੀ ? ਘੁਘੁ ਘੁਘੁ ਘੁਘੁ ਘੁਘੁਠੁ ਘੁਘੁਠੁਘੁਠੁ ? ਘੁਘੁ ਘੁਘੁਠੁ ? ਘੁਘੁ ਘੁਘੁਠੁ ਘੁਘੁਠੁ ॥
5. ਘੁਘੁਠੁ ਘੁਘੁਠੁ ਘੁਠੀਯੀ ? ਘੁਘੁ ਘੁਘੁ ਘੁਘੁਠੁ ? ਘੁਘੁ ਘੁਘੁਠੁ ਘੁਘੁਠੁ ॥
6. ਘੁਘੁ ਘੁਘੁਠੁ ਘੁਠੀਯੀ ਘੁਘੁਠੁਘੁ ਘੁਘੁਠੁਘੁ ਘੁਘੁਠੁਘੁਠੁ ॥

ਘੁਘੁਠੁ, ਘੁਘੁਠੁ, ਘੁਘੁਠੁਘੁਠੁ, ਘੁਘੁਠੁਘੁਠੁਘੁਠੁ, ਘੁਘੁਠੁਘੁਠੁ

कक्षा- आठवीं

हिंदी गृहकार्य

Q1) अपने पाठ्य पुस्तक से हिंदी की कोई दो कविता याद करे।

Q2) निम्नलिखित शब्दों के दो-दो पर्यायवाची शब्द लिखकर याद करे।

कमल, अग्नि, गृह आँख, हाथी, सूर्य, राजा, बादल, पृथ्वी, नदी, जल, घोड़ा, आकाश

Q3) निम्नलिखित श्रुतिसभिन्नार्थक शब्दों के अर्थ लिखकर याद करे।

1) चिर

चीर

2) अनल

अनिल

3) कलि

कली

4) कुल

कूल

5) पानी

पाणि

6) अपेक्षा

उपेक्षा

7) दिन

दीन

4) स्वरचित हिंदी की कोई दो कविता / निबंध / कहानी लिखिए ।

कक्षा आठवी

संस्कृत गृहकार्य

- 1) अपने पाठ्य पुस्तक से कोई दो कविता / श्लोक याद करे।
- 2) संस्कृत की संख्या वाचक शब्द 1 से 100 तक लिखकर याद करे।
- 3) सर्वनाम शब्द - तुम, आप, हम और मैं का शब्दरूप लिखकर याद करे।
- 4) कोई भी चार क्रिया धातु शब्दों के वर्तमान काल, भूतकाल और भविष्य काल में शब्द रूप लिखकर याद करे।

Learn the following thoroughly. An oral test will be conducted when you join school after summer vacation

Multiplication Tables and Charts

$1 \times 1 = 1$
 $1 \times 2 = 2$
 $1 \times 3 = 3$
 $1 \times 4 = 4$
 $1 \times 5 = 5$
 $1 \times 6 = 6$
 $1 \times 7 = 7$
 $1 \times 8 = 8$
 $1 \times 9 = 9$
 $1 \times 10 = 10$

$2 \times 1 = 2$
 $2 \times 2 = 4$
 $2 \times 3 = 6$
 $2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$

$3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$
 $3 \times 10 = 30$

$4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$
 $4 \times 10 = 40$

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$

$6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$
 $6 \times 10 = 60$

$7 \times 1 = 7$
 $7 \times 2 = 14$
 $7 \times 3 = 21$
 $7 \times 4 = 28$
 $7 \times 5 = 35$
 $7 \times 6 = 42$
 $7 \times 7 = 49$
 $7 \times 8 = 56$
 $7 \times 9 = 63$
 $7 \times 10 = 70$

$8 \times 1 = 8$
 $8 \times 2 = 16$
 $8 \times 3 = 24$
 $8 \times 4 = 32$
 $8 \times 5 = 40$
 $8 \times 6 = 48$
 $8 \times 7 = 56$
 $8 \times 8 = 64$
 $8 \times 9 = 72$
 $8 \times 10 = 80$

$9 \times 1 = 9$
 $9 \times 2 = 18$
 $9 \times 3 = 27$
 $9 \times 4 = 36$
 $9 \times 5 = 45$
 $9 \times 6 = 54$
 $9 \times 7 = 63$
 $9 \times 8 = 72$
 $9 \times 9 = 81$
 $9 \times 10 = 90$

$10 \times 1 = 10$
 $10 \times 2 = 20$
 $10 \times 3 = 30$
 $10 \times 4 = 40$
 $10 \times 5 = 50$
 $10 \times 6 = 60$
 $10 \times 7 = 70$
 $10 \times 8 = 80$
 $10 \times 9 = 90$
 $10 \times 10 = 100$

$11 \times 1 = 11$
 $11 \times 2 = 22$
 $11 \times 3 = 33$
 $11 \times 4 = 44$
 $11 \times 5 = 55$
 $11 \times 6 = 66$
 $11 \times 7 = 77$
 $11 \times 8 = 88$
 $11 \times 9 = 99$
 $11 \times 10 = 110$

$12 \times 1 = 12$
 $12 \times 2 = 24$
 $12 \times 3 = 36$
 $12 \times 4 = 48$
 $12 \times 5 = 60$
 $12 \times 6 = 72$
 $12 \times 7 = 84$
 $12 \times 8 = 96$
 $12 \times 9 = 108$
 $12 \times 10 = 120$

$13 \times 1 = 13$
 $13 \times 2 = 26$
 $13 \times 3 = 39$
 $13 \times 4 = 52$
 $13 \times 5 = 65$
 $13 \times 6 = 78$
 $13 \times 7 = 91$
 $13 \times 8 = 104$
 $13 \times 9 = 117$
 $13 \times 10 = 130$

$14 \times 1 = 14$
 $14 \times 2 = 28$
 $14 \times 3 = 42$
 $14 \times 4 = 56$
 $14 \times 5 = 70$
 $14 \times 6 = 84$
 $14 \times 7 = 98$
 $14 \times 8 = 112$
 $14 \times 9 = 126$
 $14 \times 10 = 140$

$15 \times 1 = 15$
 $15 \times 2 = 30$
 $15 \times 3 = 45$
 $15 \times 4 = 60$
 $15 \times 5 = 75$
 $15 \times 6 = 90$
 $15 \times 7 = 105$
 $15 \times 8 = 120$
 $15 \times 9 = 135$
 $15 \times 10 = 150$

$16 \times 1 = 16$
 $16 \times 2 = 32$
 $16 \times 3 = 48$
 $16 \times 4 = 64$
 $16 \times 5 = 80$
 $16 \times 6 = 96$
 $16 \times 7 = 112$
 $16 \times 8 = 128$
 $16 \times 9 = 144$
 $16 \times 10 = 160$






$17 \times 1 = 17$
 $17 \times 2 = 34$
 $17 \times 3 = 51$
 $17 \times 4 = 68$
 $17 \times 5 = 85$
 $17 \times 6 = 102$
 $17 \times 7 = 119$
 $17 \times 8 = 136$
 $17 \times 9 = 153$
 $17 \times 10 = 170$

$18 \times 1 = 18$
 $18 \times 2 = 36$
 $18 \times 3 = 54$
 $18 \times 4 = 72$
 $18 \times 5 = 90$
 $18 \times 6 = 108$
 $18 \times 7 = 126$
 $18 \times 8 = 144$
 $18 \times 9 = 162$
 $18 \times 10 = 180$

$19 \times 1 = 19$
 $19 \times 2 = 38$
 $19 \times 3 = 57$
 $19 \times 4 = 76$
 $19 \times 5 = 95$
 $19 \times 6 = 114$
 $19 \times 7 = 133$
 $19 \times 8 = 152$
 $19 \times 9 = 171$
 $19 \times 10 = 190$

$20 \times 1 = 20$
 $20 \times 2 = 40$
 $20 \times 3 = 60$
 $20 \times 4 = 80$
 $20 \times 5 = 100$
 $20 \times 6 = 120$
 $20 \times 7 = 140$
 $20 \times 8 = 160$
 $20 \times 9 = 180$
 $20 \times 10 = 200$

Three-Dimensional Geometric Shapes

Name of the shape :	Picture of the shape :
Sphere: A sphere is a round, ball shaped solid. It has one continuous surface with no edges or vertices.	
Cube: A rectangular solid, in which each face is a square, is called a cube.	
Cuboid or Rectangular Prism: A rectangular solid which has six faces, each of which is a rectangle, is called a cuboid.	
Cone: A cone is a distinctive three-dimensional geometric figure that has a flat surface and a curved surface, pointed towards the top. The pointed end of the cone is called the apex, whereas the flat surface is called the base.	
Cylinder: It can be considered as a prism with a circle as its base.	

$$1. (a + b)^2 = a^2 + b^2 + 2ab$$

$$2. (a - b)^2 = a^2 + b^2 - 2ab$$

$$3. a^2 - b^2 = (a + b)(a - b)$$

$$4. a^2 + b^2 = (a + b)^2 - 2ab$$

$$5. a^2 + b^2 = (a - b)^2 + 2ab$$

















$$6. (a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$


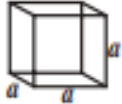






$$7. (a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

$$8. a^3 + b^3 = (a + b)(a^2 - ab + b^2) \text{ or } (a + b)^3 - 3ab(a + b)$$

$$9. a^3 - b^3 = (a - b)(a^2 + ab + b^2) \text{ or } (a - b)^3 + 3ab(a - b)$$

Two-Dimensional Geometric Shapes

Name of the shape :	Picture of the shape :
Circle: A circle is a round shaped figure that has no corners or edges. In geometry, a circle can be defined as a closed, two-dimensional curved shape.	
Semi –circle: A half-circle is part of a circle bounded by a diameter and half of the circumference.	
Oval: It has no straight lines and vertices. The oval shape has one flat face similar to an egg.	
Triangle: A triangle is a closed, two-dimensional shape with three straight sides. A triangle is also a polygon.	
Square: A square is closed, two-dimensional shape with 4 equal sides and 4 equal angles each measuring 90°. A square is a quadrilateral.	
Rectangle: A rectangle is a 2D shape in geometry, having 4 sides and 4 corners. Its two sides meet at right angles. The opposite sides of a rectangle have the same lengths and are parallel.	
Parallelogram: Parallelogram is a quadrilateral with two pairs of parallel sides. The opposite sides of parallelogram are of equal length and the opposite angles are of equal measure.	
Rhombus: Rhombus is a special type of a parallelogram whose all sides are equal.	
Trapezoid: A trapezoid, also known as a trapezium, is a flat closed shape having 4 straight sides, with one pair of opposite sides are parallel but other two sides of it are non-parallel.	
Kite: A kite is a quadrilateral whose four sides can be grouped into two pairs of equal length sides that are adjacent to each other.	
Pentagon: A pentagon is a polygon which has five sides and five angles.	
Hexagon: A hexagon is a polygon which has six sides and six angles.	
Heptagon: A heptagon is a polygon which has seven sides and seven angles.	
Octagon: An octagon is a polygon which has eight sides and eight angles.	
Nonagon: A nonagon is a polygon which has nine sides and nine angles.	
Decagon: A decagon is a polygon which has ten sides and ten angles.	

S. No.	Name of the solid	Figure	Lateral / Curved surface area	Total surface area	Volume	Nomenclature
1.	Cuboid		$2h(l+b)$	$2(lb+bh+hl)$	lbh	l :length b :breadth h :height
2.	Cube		$4a^2$	$6a^2$	a^3	a :side of the cube
3.	Right prism		Perimeter of base \times height	Lateral surface area+2(area of the end surface)	area of base \times height	-
4.	Regular circular Cylinder		$2\pi rh$	$2\pi r(r+h)$	$\pi r^2 h$	r :radius of the base h :height
5.	Right pyramid		$\frac{1}{2}$ (perimeter of base) \times slant height	Lateral surfaces area+area of the base	$\frac{1}{3}$ area of the base \times height	-
6.	Right circular cone		πrl	$\pi r(l+r)$	$\frac{1}{3} \pi r^2 h$	r :radius of the base h :height l :slant height
7.	Sphere		$4\pi r^2$	$4\pi r^2$	$\frac{4}{3} \pi r^3$	r :radius
8.	Hemisphere		$2\pi r^2$	$3\pi r^2$	$\frac{2}{3} \pi r^3$	r :radius

ROMAN NUMERALS CHART

1	I
2	II
3	III
4	IV
5	V
6	VI
7	VII
8	VIII
9	IX
10	X

11	XI
20	XX
30	XXX
40	XL
50	L
60	LX
70	LXX
80	LXXX
90	XC
100	C

200	CC
300	CCC
400	CD
500	D
600	DC
700	DCC
800	DCCC
900	CM
1000	M
1001	MI

I	V	X	L	C	D	M
1	5	10	50	100	500	1000