#### **EXCELLENCE IN EDUCATION SINCE 1989**

CLASS: X | SUBJECT: ENGLISH | PREPARATION PAPER 2023 - 2024 | BY: SIR RASHID NIZAMI

# **Preparation Paper of English X for 2024**

# Section "A"

**Q1.** Multiple Choice Questions (M.C.Q.s)

\* Prepare from Prose and Poem.

\* Practice from Midterm paper and past papers. (Final Term paper)

# Section "B"

# (Short Answer- Questions)

Q2. Answer any 5 of the following questions in two to three sentences each

# Poem

- i) Why did author climb the steeple?
- ii) Why was the poet asked to go down again in the poem "The Voice of God"?
- iii) What lesson did the king learn from the spider?
- iv) Why did the King Bruce think that the spider would not be able to reach its home?
- v) Why did the King decide to try again?
- vi) What is the theme of poem "Speak Gently"?
- vii) What is the message of the poem "Little Things"?
- viii) Why should we speak gently to others?

# Prose

- i) How did the caliph decide the case?
- ii) What was Caliph Haroon-ur-Rashid known and respected for?
- iii) What was the dispute between the rich man and the beggar?
- iv) Why is china having a rapid progress?
- v) What was going on at Akhtar's school? In what way did he participate?
- vi) Why was Akhtar Cross?
- vii) Which chores did our last Prophet (S.A.M.) are to do?
- viii) How can social media be handy for the students now- a-days?
- ix) How is social media affecting the relationships of people?
- x) How has social media revolutionized the concept of communication?
- xi) How can a business be initiated on a virtual platform?
- xii) What happened to Mr. Abdul Karim when he went for a walk?
- xiii) What was Mr. Karim's second strange experience?
- xiv) Why is Gorakh Hills a good place for a holiday?
- xv) Why did Asif's parents decide to take him to the Gorakh Hills for his birthday?
- xvi) What two important safety measures can save people's lives?
- xvii) Why is a helmet an important safety gear?
- xviii) How can employers hunt the right candidates for their job positions?
- xix) What are the problems faced by riders in winter? How can they be solved?
- xx) What happens when a car stops suddenly?

#### **Q3.** Do as directed (as instructed)

Top	pics:	
1.	Prepositions	(2 Marks)
2.	Articles	(2 Marks)
3.	Voices	(3 Marks)

course Coordinator: Sir Asif Iqhar Contact No: 0321-2108729

20 Marks

40 Marks 10 Marks

20 Marks



	4.	Narrations		(4 Marks)
	5.	Formation of Sentences		(6 Marks)
		a) Nature of sentences	b) Types of Sentences	
		c) Tenses	d) Capital Letters and Punctuations	
	6.	Verb		(2 Marks)
	7.	Suffix, Prefix and homophe	nes	(1 Mark)
Q4.	Kin	ds of Part of speech		(5 Marks)
Q5.	Tra	nslate the following Paragraph	n into Urdu and Sindhi.	(5 Marks)
			Section "C"	
		(Descrip	tive Answer - Questions)	40 Marks
Q6.	Clo	ze passage.		(5 Marks)
	* P	repare from Prose.		
Q7.	Wri	ite an essay of 120 <mark>-150</mark> words	on any one of the following:	(10 Marks)
	i)	An Interesting Cricket Mate	h	
	ii)	Impact / Role (positive and	negative) of Internet/Social Media/Cell Pho	one on
		Youth/Society		
	iii)	Problems of Metropolitan C	Lity(Karachi)	
	iv)	Energy Crisis in Pakistan		
	v)	My favorite Personality / th	e Visionaries Leader	
	vi)	Need of National Unity OR	. War <mark>Ag</mark> ainst Terrorism	
<b>Q8.</b>	Inf	<mark>formal Letters</mark>		(10 Marks)
	i)	Write a letter to your cousin	n <mark>, in</mark> viting him/her to spend the summer vac	ation with you.
	ii)	Write a letter to your youn	ger brother, advising him to pay serious at	ttention on study in
		order to get better result.		
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	<u>F0</u>	rmal Letters		$\leq$
	i)	Write a letter to the editor o	f a newspaper, concerning over frequent po	wer failures in your
		area/ concerning over short	supply of drinking water in your area/ con	cerning over traffic

problems in Karachi/ concerning over unsatisfactory sanitary condition in your locality.
ii) Write a letter to the editor of a newspaper, complaining about the shortage of playground in your area.

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Q9. Unseen Reading Comprehension.

(15 Marks)

Course Coordinator: Sir Asif I ghan Contact No: 0321-21087-29

#### **EXCELLENCE IN EDUCATION SINCE 1989**



CLASS: X | SUBJECT: PAKISTAN STUDIES | PREPARATION PAPER 2023 - 2024 | BY: SIR MUHAMMAD AFIF KHAN

# **IMPORTANT QUESTIONS AND ANSWERS**

# Chapter No I

# SHORT QUESTIONS AND ANSWERS

Three basic sources of Islamic ideology Fundamental concepts of Islamic Ideology Role of ideology in building national character

# LONG QUESTIONS AND ANSWERS

Principles of democracy in Islam Statements of Quaid-e-Azam and Allama Iqbal

# Chapter No 2

# SHORT QUESTIONS AND ANSWERS

Fourteen points of Quaid-e-Azam Two Nation Theory Aims and objectives of All India Muslim League Faraizi Movement Pakistan Resolution 3<sup>rd</sup> June plan Qualities of character of Quaid-e-Azam **LONG QUESTIONS AND ANSWERS** Role of Sindh & Punjab in Pakistan Movement Shah waliullah Movement Aligarh Movement

# Chapter No 3

# LONG QUESTIONS AND ANSWERS

Constitution of 1973 Causes of Separation of East Pakistan Objective Resolution

# Chapter No 4

# SHORT QUESTIONS AND ANSWERS

Causes of environmental pollution

Deserts of Pakistan

Neighbouring Countries of Pakistan

# LONG QUESTIONS AND ANSWERS

Importance of Geographical location of Pakistan

# Chapter No 5

# SHORT QUESTIONS AND ANSWERS

Advantages of Forest Minerals found in Pakistan Nuclear Energy Dams of Pakistan Uses of Natural Gas

**BY: FACULTY OF PAKISTAN STUDIES** 

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# LONG QUESTIONS AND ANSWERS

Agricultural problems of Pakistan Importance of resources in national development

# Chapter No 6

# SHORT QUESTIONS AND ANSWERS

Steps to be taken for the development of industries

Important problems of industries

Import and export of Pakistan

Cotton and Sugar industries

Uses of E-Commerce

Important defence industries

# Chapter No 7

# SHORT QUESTIONS AND ANSWERS

Suggestions to reduce the population Pressure on natural resources

Characteristics of the population of Pakistan

Importance of Census

Condition of literacy rate in Pakistan

# LONG QUESTIONS AND ANSWERS

What are the causes of growth of population in Pakistan? Describe the effects of growing population in Education or Health.

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# Chapter No 8

# SHORT QUESTIONS AND ANSWERS

Sufi Saints of Pakistan

Muslim festivals which are celebrated every year in Pakistan

Characteristics of Culture

# LONG QUESTIONS AND ANSWERS

Describe the Importance of Urdu as National Language

# Chapter No 9

# SHORT QUESTIONS AND ANSWERS

Technical and professional education

LONG QUESTIONS AND ANSWERS

Objectives of Information Technology (I.T) In Pakistan

Education Problems of Pakistan

Importance of Education in progress of a country

# Chapter No IO

# SHORT QUESTIONS AND ANSWERS

Elements which usually shape the characters of any nation

Why peace in the world is necessary Islamic Welfare state

# LONG QUESTIONS AND ANSWERS

What is meant by welfare state? Principles of Islamic welfare state.

National goals of Pakistan

# Chapter No II

# SHORT QUESTIONS AND ANSWERS

Moderation in life

Merit of Democratic government

# LONG QUESTIONS AND ANSWERS

Rights and duties of a citizen

What is the meaning of corruption? What are its harmful effects on the society





EXCELLENCE IN EDUCATION SINCE 1989

CLASS: X | SUBJECT: SINDHI | PREPARATION PAPER 2023 - 2024 | BY: PROF. FOZIA AZEEM

According To The New Book Of STBB SINDHI SSC-II   SESSION 2023-24			
<b>حصو ''الف'' (گھڻ چونڊاڻتا سوال)</b> , تمام اسباق جو مطالعو ڪريو <b>حصم ''ب' (مختص سوال جا جواب)</b>	ڪتاب جي	\$	
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🛠 ولادت	🛧 اڌاري	🛧 خلاف	🖍 مر ڻ	🛧 پڪيون	لا پڇاڙي	☆ کو سو
		🖈 اگيون	🖈 پيراندي	🛧 گوڙ	🛧 نقصان	🛧 يلي

# واحد يا جمع

شخبی شنیمان شاخ شریرن شکت شخبی شنی شنید شاخی         شیار شکت شاسکول شدورازو شیند شیل به دواج         شعرت شواختی شین شیاد شیاد شدورازو شیند شیل به شیزادی شگیر         شعرت شواختی شدور شکان شماسی شیادی شگیر         شعرت شواختی شدور شکان شماسی شیادی شگیر         شمان شدی شیادی شیاد شیاد شدور شدوج شیر         شمان شدور شکار مید         شمان شیادی شیادی شیادی شیادی شیادی شیادی شیادی شیادی شدید         شمان شدور شده شیادی شده مید         معنی شدی شیادی شدید شیادی شیادی شیادی شیادی شیادی شدیدی شیادی شدیدی شیادی ش	🖈 دوا	🛧 پکو	🛧 قومر	🛠 ڪمرا	🛧 ھاٿي	ک 🏠 هٿ	لا دعائون	
<ul> <li>شیار شکن شداسکول شدوازو شین شبل به واج</li> <li>منگریا مونی</li> <li>شعرت شداختر شدگین شیایی شدهد خوب ششادی شگیرو شجیر کی شیرلو ششین شیادشاه شمور شوج شیرو شین شدایی شگیر شیخ شین شدایی شدی شیادی شیایی شمایت شیادی شگیرو شده شیخ یکی شدی شیادی شیایی شمایت شده شدی یکی شدی شیادی شیخ شیرا کاری شدون میان ایتان شده معن شین شیادی شدایی معن شدایی معنی شدادی شدادی شیرا گران شده مایی معنی شیایی شیایی شدی معنی معنی شیایی شدی میان ایتان شده مایی معنی شیایی شدی میان ایتان شدی میان ایتان شدی میان ایتان شدی میان ایتان شدی معنی معنی شیایی شدی میان ایتان شدی معنی معنی شیایی شدی میان ایتان شدی میان ایتان شدی میان ایتان شدی میان ایتان شدی میان ایتان شدی معنی معنی معنی معنی شدی میان ایتان شدی معنی میایی شدی میان ایتان شدی میایی معنی معنی معنی شدی میایی شدی میان معنی معنی معنی شدی میان معنی مینی شدی میان معنی میایی شدی میان می معنی میایی می شدی شدی شدی میایی مینی شدی معنی کامیایی می شینی شدی معنی کامیایی می شینی شدی میان میایی می شدی شدی معنی معنی شدی میان میایی می معنی شدی میان می معنی معنی شدی میان می می می می می شینی میایی می می می شدی می می می می می شدی می می</li></ul>	🛠 نلڪو	🛠 ڪرسي	🛧 کٽ	🛠 ٻڪريون	🛧 سٺو	لا فيصلو	🛠 ڪنجي	
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٣ ما، ٢ ٢ چکی ۲ ۲ کی ۲ سیسی، <u>وصف لکی</u> ۸ مرف جر ۲ ظرف ۲ اسر عام ۲ ضیر ۲ فعل ۲ حرف ندا ۲ صفت ۲ اسر ۲ اسر خاص ۴ اسر ۲ اسر خاص ۴ اسر ۲ اسر نات ۴ سر صفتو کرن ۲ کین م معن ۴ سر مدتو کرن ۲ کین م معن ۴ سر مدتو کرن ۲ کین م معن ۴ سر مدتو کرن ۲ کین م معن ۴ سنین تیائن ۴ سر مدتو کرن ۲ کین م معن ۴ سنین تیائن ۴ سر مدتو کرن ۲ کین م معن ۴ سنین تیائن ۴ سر مدتو کرن ۲ کین م معن ۴ سنین تیائن ۴ سر مدتو کرن ۲ کین م معن ۴ سنین تیائن ۴ سر مدت کین معن ۴ سر مدت کین کین معن ۴ سر مدت کارین ۴ سر محمد کین ۴ سر مین ۴ سر محمد کین ۴ سر مدت کارین ۴ سر محمد کین ۴ منین کین ۴ سر مین ۴ منین کین ۴ سر مین ۴ منین کین ۴ منین کین ۴ منین ۴ منی ۴ منی ۴ منین ۴ م	🕅 فيفير	🕫 ماستر	کم ماسي		7⊼مور	ک <sup>م</sup> هاتي ۸ گ	ک <sup>م</sup> پٽ	
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اصطلاعن جي سنڌي       اج پيرن هيٺان لتاڙن         اون هيٺان لتاڙن       اج هزاڻ ڏيڻ       اج اکين ۾ هجڻ         اج نقش قدم تي هلڻ       اج هزاڻ ڏيڻ       اکين ۾ هجڻ         اج سام صحت ٿيڻ       اج سر صدقو ڪرڻ       اکين ۾ هجڻ         اون هي ملڻ       اج سر صدقو ڪرڻ       اين ڻ ملهائڻ         اج سر صدقو ڪرڻ       اين ڻ ملهائڻ       اج نينهن نيائڻ         اون هي ملٽان       اج سر صدقو ڪرڻ       اين ڻ ملهائڻ         اون هي ملٽان       اج سر صدقو ڪرڻ       اين ڻ ملهائڻ         اون هي منڌي       اين ملهائڻ       اين ني محمر         اون هي مدينان       اين ملهائڻ       اين مندي ني محمر         اون هي مدينان       اين مدينان       اين مدينان مدينان مدينان         اون هي مدينان       اين مدي مدينان       اين مدي مدينان         استاد جي عظمت       اين جي موسير       اين جي محمر         اون تي مضمون       اين جي موسير       اين جي محمر         اون تي مضمون       اين جي موسير       اين جي محمر         اون تي مضمون       اين جي موسير       اين جي محمر         اون تي محمر       اين جي موسير       اين جي موسير         اون تي مو مون ٿي ٿي مورندي       اين جي موري       اين جي موري         او مون ٿي ٿي موري       اين جي موري       اين جي موري         او مون ٿي ٿي       اين ج		$\overline{\mathbf{Y}}$					-	Izhai
اُوْنَ شَ بِيرِن هِينَان لَتَارَّنَ اللہُ بِعِالُو ٿيڻ اَلْہُ کَو حَلْي وَجَلْ اللہُ مَا لَكُونَ اللہُ اللہُ اللہ عِنْ اللہُ اللہ عِنْ اللہ عَنْ اللہ عَامَ اللہُ اللہ اللہ اللہ اللہ اللہ اللہ الل		5 / /				جي سنڌي	اصطلاحن <sub>ا</sub>	Asif.
بل نقش قدم تي هلڻ       بل فقان فين بي محرق ڪرڻ جي پاڻ ملهائڻ       بل ندت ڇڏڻ         بل سام صحت ٿيڻ       بل سام صحت ٿيڻ       بل س صدقو ڪرڻ جي پاڻ ملهائڻ       بل ندت چڏڻ         بل سام صحت ٿيڻ       بل ين علي موتا ئڻ       بل ين علي موتا ئڻ         بل سوالي نه خالي موتا ئڻ       بل ين علي موتا ئڻ         بل سوالي نه خالي موتا ئڻ       بل ين يقين محكر         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل سوالي نه خالي موتا ئڻ       بل يورا گرن         بل مولي نه محكر       بل يورا گرن         بل مولي نه       بل يورا پر يورا گرن         بل مولي نه       بل يورا پر يورا گري گرند گرد         بل محكر       بل يورا پر يورا گرد         بل مولي مورا پر يورا گرد       بل يورا پر يورا گرد         بل مورا يورا هور پر يورا پر يورا پر يورا گرد       بل يورا پر يورا	لو ڳائجڻ	1 じ ☆	، ءِکڻي وڃڻ	ا گو	🛧 پڇاڻو ٿيڻ	ن لتاڙن	🖈 پیرن هیٺار	Sù :
ر به سام صحت ٿيڻ اه سر صدقو ڪرڻ اهپائڻ اهپائڻ اهپائڻ اه سام صحت ٿيڻ اه سر صدقو ڪرڻ اهپائڻ اهپائڻ اهپائڻ اهپائڻ اهپائڻ اه الذت چڏڻ اه رنگ لڳائڻ اه جالي موٽائڻ اه ڳڙ ڳائڻ اه ڪينجهر لڳڻ اس سوالي نه خالي موٽائڻ اهر دڏيچاءَ احاد تنظيم ۽ يقين محڪم اه استاد جي عظمت اه احمد تنظيم ۽ يقين محڪم اه استاد جي عظمت اه جار جي موسم اه جو پاڪستان اه حضرت شاه عبد الطيف ڀٽائي اه وقت جي پابندي اهي جي پاڪستان اه حضرت شاه عبد الطيف ڀٽائي اه وقت جي پابندي اهي جي چي پاڪستان اه محنت ڪاميابي جي ڪنجي آهي اه تندرستي هزار نعمت آهي اهي تعليم جي اهيت اهي جي ڪينجي آهي اه تندرستي هزار نعمت آهي اڪر محيد ماست پاڻي کي پڪنڪ تي وڃڻ جي اچازت لاءِ درخو است لکو	ت ڇڏڻ	لذر	ين ۾ هجڻ	ح اک	🛧 هڙاڻ ڏيڻ	تى ھلڻ	🛠 نقش قدمر	tor:
ر بل ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب	هن نڀائڻ	ین 🛧 نین	ملهائڻ	ڪرڻ 🏠 پاڻ	🛧 سر صدقو	، ٿيڻ	🛠 ساھ صحت	dina
م الله بالي نه خالي موٽائڻ الله بيرا گراف الله تروپچانه الله تي مضمون الله الله الله الله الله الله الله الله	ت چڏڻ	لذ	ينجهر لڳڻ	<b>≤</b> ☆	🖈 ڳڻ ڳائڻ	ط ( 0 )	🖈 رنگ لڳائر	2002
ق <b>پيرا گراف</b> الار ويچا، الحاد تنظيم ۽ يقين محکر عنوان تي مضمون استاد جي عظمت الحاد بي موسم استاد جي عظمت الحاد بي الحاد بي موسم الار الحاد بي الحاد بي الحاد بي محكم بي الحاد بي محكم بي الحاد بي الحاد بي الحاد بي محكم الحاد بي محكم بي الحاد بي محكم بي الحاد بي محكم بي الحاد بي محكم بي الحاد بي الحاد بي محكم الحاد بي محكم بي الحاد بي محكم بي الحكم بي محكم بي الحكم بي محكم بي الحاد بي مي محكم بي محكم بي الحكم بي محكم بي محكم بي الحكم بي محكم بي محكم بي الحكم بي محكم بي الحكم بي محكم بي محكم بي محكم بي محكم بي محكم بي محكم بي الحاد بي مي محكم بي	(9					خالي موٽا ئڻ	🛧 سوالي نه	vrse (
پيرا گراف       اتحاد تنظيم ۽ يقين محکر         الحرونها؟       الحاد تنظيم ۽ يقين محکر         عنوان تي مضمون       الالحاد         المتاد جي عظمت       الالحاد         المتاد جي عظمت       الالحاد         المتاد جي عظمت       الالحاد         الماد جي عظمت       الالحاد         الحاد جي عظمت       الالحاد         الحاد جي عظمت       الالحاد         الحاد جي جي العاد       الالحاد         الحاد جي عذر الله منها جي الحاد       الالحاد         الماد جي الحاد       اللحاد         الماد جي الحاد       اللحاد         الماد جي جي العاد جي عد ماست الله جي الحاد       الحاد         الماد جي الحاد       الحاد         الحاد       الحاد         الحاد جي عد ماست اله جي حي حي جي جي الحاد         الحاد جي الحاد       الحاد         الحاد جي الحاد       الحاد         الحاد جي الحاد       الحاد         الحاد جي الحاد <td< td=""><td></td><td>11 -</td><td></td><td>-</td><td></td><td></td><td>,</td><td>Col</td></td<>		11 -		-			,	Col
الله الله الله الله الله الله الله الله					10	VZ /	پيرا گراف	
عنوان تي مضمون الله استاد جي عظمت الله استاد جي عظمت الله حضرت شاه عبد الطيف ڀٽائي الله منهنجي پسنديده شخصيت الله منهنجي پيوم پاڪران مي هيد ماست الله مي حينڪ تي وڃڻ جي اجاز ت لاءِ درخو است لکو الله منهنجي اسڪران جي هيد ماست الله منه ماست بالي کي پڪنڪ تي وڃڻ جي اجاز ت لاءِ درخو است لکو				ن محکر	اد تنظيم ۽ ي <mark>قي</mark>	☆ اتح	اللہ رڌپچاءً	
عنوان تي مضمون الله استاد جي عظمت الله استاد جي عظمت الله عبد الطيف ڀٽائي الله حضرت شاہ عبد الطيف ڀٽائي الله منهنجي پسنديدہ شخصيت الله منه من منه من		N.S.	0	-	20			
<ul> <li>أم استاد جي عظمت</li> <li>أم استاد جي عظمت</li> <li>أم حضرت شاه عبد الطيف ڀٽائي</li> <li>أم حضرت شاه عبد عامت آهي</li> <li>أم حضرت شاه عبد عامت آهي</li> <li>أم حضرت من من مي الح الح الح الح الح الح الح الح الح الح</li></ul>			I G E	NE		مضمون	عنوان تي ه	
<ul> <li>الأولى المحمد الطيف يتائي</li> <li>الأولى المحمد المحمد الطيف يتائي</li> <li>الأولى المحمد ا</li></ul>	ــتان	🛧 يومِ پاڪس		رجي موسم	ا الله الم	عظمت	🛠 استاد جي	
الله منهنجي پسنديده شخصيت الله تعليم جي اهميت الهميت الله منهنجي پسنديده شخصيت الهي جي ڪنجي آهي. الله تندرستي هزار نعمت آهي الله قومي ايڪو درخواست الله الله منه ماستاله هند ماسترياڻي کي يڪنڪ تي وڃڻ جي اچازت لاءِ درخواست لکو	لا جو سير	☆ ڪينجهر ڍن		ت جي پابندي	ئي 🕸 وق	ه عبد الطيف ڀٽا	🛠 حضرت شا	
☆ تندرستي هزار نعمت آهي ☆ قومي ايڪو درخواست ٨ ينهنجي اسڪو ان جي هيد ماستر / هيد ماستر ڀاڻي کي پڪنڪ تي وڃڻ جي اچازت لاءِ درخواست لکو	يابي جي ڪنجي آهي	🛧 محنت کام		ليم جي اهميت	🛠 تعا	سنديده شخصيت	🛠 منهنجي پ	
<b>درخواست</b> ان منهنجہ اسکول جی ہید ماستہ / ہید ماستہ ہاٹی کے پکنک تب ویض جی اجازت لاءِ درخواست لکو است ک				مي ايڪو	ا الله الله	هزار نعمت آهي	🛠 تندرستي ه	
<del>کر حواست</del> انھنجہ اسکول جی ہید ماستہ / ہید ماستہ ہاٹی کی بکنک تب وچڻ جی اجازت لاءِ درخواست لکو 🖄							د خداست	
	، خه است لکو	حہ احاز ت لاءِ د	کنک تے و <b>ح</b> ط	استہ باٹنے کے بھ	ماستہ / ہید ما	سڪول جي هيد	<u>ار عوامیت</u> لا بنهنجی ا	

پنهنجي اسڪول جي هيڊ ماستر / هيڊ ماسترياڻي کي پڪنڪ تي وچڻ جي اجازت لاءِ درخواست لکو
 پنهنجي اسڪول جي هيڊ ماستر / هيڊ ماسترياڻي کي چئن ڏينهن جي موڪل لاءِ در خو است لکو
 پنهنجي اسڪول جي هيڊ ماستر / هيڊ ماسترياڻي کي اسڪول ۾ شاه عبدالطيف پثائي جو ڏينهن "ملهائڻ
 پنهنجي اجازت"لا ۽ درخواست لکو

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- اللہ اللہ اللہ اللہ ماستر / ہیڊ ماستریاڻي کي سفاري پارک جي پڪنڪ جي اجارت لاء درخواست لاء درخواست لاء درخواست لکو
- ج پنهنجي اسڪول جي هيڊ ماستر / هيڊ ماسترياڻي ڪن هڪ درخواست لکو جنهن ۾ ڪانس اسڪول ۽ سنڌ جي ٽقافت لا۽ ڏينهن ملهائڻ جي اجازت گهرو
  - پنهنجي والد صاحب کي خط لکي کانئس ڪتابن ۽ يونيفارم جي خريدارئ لا۽ پنج هزار رپيڻ جي گهر ڪريو پنهنجي دوست اساهيڙيءَ کي خط لکي کيس امتحان ۾ سٽن نمبرن سان ڪامياب ٿيڻ ته مبارڪباد ڏيوس
  - لا پنهنجي دوست اساهيڙيءَ کي خط لکي کيس ا<mark>سڪول ۾ تيندڙ هم نصابي</mark> سر گرمين ۾ حصو وٽڻ جي نصيحت ڪريو-

🛠 پنهنجي دوست اساهيڙيءَ کي خط لکي کيس جنهن ۾ کيس ڪراچي ۾ ٿيندڙ تر قي بابت جاڻ ڏيوس-

شعرن جي سمجهاڻ<mark>ي ۽ ش</mark>اعر<mark>جي حواله -</mark> همیشه سشال <mark>دنیا م جهند و اسلام جو جهولی</mark> جتي پي سوو**جي** پهچ<mark>ي ره</mark>ي <mark>قائ</mark>م ات<mark>ي ب</mark>رپا .2 آری جی اچڻ جی ر<mark>وز نهاريان</mark> ز<mark>اھ</mark> آڻيندس الله , مون <mark>سرصدقي ڪيو</mark> . Course تنهنجي محنت لائي رنگ. ڏک وڃڻ ٿئي سک جو <mark>سنگ</mark> JEN تنهجي مٽي ۾ مشڪ ۽ تنهنجي هوائ<mark>ن ۾ هڳاءُ</mark> .4 مهراڻ جي هر موج ڄڻ امرت سندي ڌارا وطن منهنجو اندرا ڌڪيو ، فنا هن فراق .5 مرى ٿئي مشتاق, كا كرور , ولهي جي مٺڙا وطن تنهنجي مٿان سر ساھ سپ گهوري ڇڏيان .6

سلي سلي جي ڪر سنپار

کٹی منہنجان ٿيڻ کيچ خرار

.7

اسان کي ڏي خدا توفيق طاقت همت , حشمت	.8
اسان مان ڪي اڳين جهڙا عجب انسان ڪر پيد	

- سشال نه وسرين هوت ، بيوسپ ون وسرى .9 مون کي تالين موت, هئين اڪڙين ۾
- تون ئي جياپو جان جو، توسند م جيءَ جون ڄڙيون .10 تو سان اڙ يو من آسندم، اي سرس سونهارا وطن
  - بک بيماري کڍ پچائي .11 تنهنجا گڻ زمانو گائي
- جن جووارث تون ا<mark>لاسائي ڪئي نئڻ رهندانيڻ منهنجا</mark> .12 آگى أپ خلقيا ، پلى خلقيا ئ<mark>ين پون</mark>
  - انسان کی ڏ<mark>ی خد</mark>ا تو <mark>فيق ، طاقت</mark> هم<mark>ت ۽</mark> حشمت<mark>.</mark> اسان مان ڪي اڳين <mark>جهڙا عجب</mark> ان<mark>س</mark>ان <mark>ڪ</mark>ر پ<mark>يد</mark>ا
    - مهل ملي ٿئي پاڻ م<mark>لهائ</mark>ج محبت جاڪي مينه<mark>ن و</mark>سا<mark>ئج</mark>
- Contact No: 0321-21087
- دفع سپ انتظاري ڪر ، <mark>پري سپ بيقراري ڪر</mark> خزان مان تون بهاري ڪر، ت<mark>ه ٿيون سر سبز ۽ سرها</mark> SENGE I

# بندجي تشريح شاعر جي حوالي سان

- مون سان جي کڻي ڪو به برائي ٿو ڪر<mark>ي</mark> .1 دل منهنجی-----دل منهنجی آءُ ان سان -----توفيق جو-----خداوند درى!
  - سعادت جو بيشك-----.2 ذياتون ٿولا -----هو اساڻ سرلاٽ-----ٿونورت ڪندي ---------------

- ككائڻ گهرن كي----- كرين ٿو .3 غربين جي ----- ڪرين ٿو ٿي سج ----- ڪرين ٿو ------ ڪرين ٿو سحر تائيڻ -----
  - چي توڪي مسافر ----- گهر جي .4 جي تو کي دنيا ۾ ----- گهر جي وٺ جان ۽ دل سان خاڪساري جي واٺ

مزدورن ۽ ڪڙمين ---------.5 فقيرن جي مجلس -----سڙي تون ------رکيل تو ۽ ڪيڏي <mark>نه آهي جگ</mark>ائي

	نزي خيال	, خلا صو <mark>يا مرک</mark>	سبق جو	Izhar 9
ا نصرپور	🛧 به ت <mark>ه بارهن</mark>	لت آهي	لا هنر دو	Asif .
الم الجرك	الم مائي حيري	اج نهڙ و پاڳ	۲ جهڙور	vi: Sin 1321-2
		ِ مركزي <b>خيال</b>	نظر جو	dinato : No: (
🛧 ڏيئو	🛧 هاري	ن سک جو کوسنار	☆ بٹا یور	e Coor ontact
$\mathcal{N}$	10	$\mathbb{R}^{-1}$	۾ بيڪي	Cours
	<mark>جمو ڪريو</mark>	ف جو اردو <u>۾</u> تر	پيراگراف	
	طبو	حجة الوداع وارو خ	.1	
	محكمه	اتحاد تنظيم ۽ يقين	.2	
E IN	5/	مائي خيري	.3	
		قائد اعظم جا ارشاد	.4	
	ي	حضرت سلمان فارس	.5	

مولا نا دين محمد وفائي .6

<mark>الا حض</mark>رت سلمان فارسي

<mark>م سڃل</mark> سرمست جابيت

NEIN

-



course Coordinator: Sir Asil I A

Contact No: 0321-21087.2

# Ex. 19.2

Example No: 2

Page No: 73

Ex	ample No:	1	Page No	o: 74				
Ex	ample No:	1	Page No	: 76				
Ex	ample No:	1	Page No	: 78				
Q7. (i,	iii, iv)		Q8. (	i, ii)				
		UNIT NO:	20 (THEC	ORY OF QU	ADRATIC	EQUATIO	NS)	
				Ex. 20.	1	·		
Q3. (i). Q4	4 Q5							
				Ex. 20.	2			
Ex	ample No: '	2	Page No	· 91				
Ex	ample No:	3	Page No	: 92				
Ex	ample No: 4	4	Page No	: 93				
Q1. (I,	II, III)		Q2. (	I, II, III, IV)	Q3	8. (I, II, II	I, IV, V)	
-				Ex. 20.	4			
O2 (I			03					
<b>X</b> (1	,,,		A.	Fy 20				
Εv	ample No.		Daga No	• 102		0		
$O^2$ (I			$\Omega_3^{1}$ and $\Omega_3^{1}$	$\Omega 4$		11		
Q2. (1,	11, 111, 1 V,		Q5 and v	יא דע 20 י	7			
01 2 2	45679			EX. 20.	/			
Q1, 2, 3, 2	+, 3, 0, 7, 8,	9		105		D	TA	
Ex	ample No:		Page No	: 107				
Ex	ample No: 2	2	Page No	o: 108				
Ex	ample No: 1	3	Page No	: 109				
Ex	ample No:	4	Page No	: 109			14	
	2	I.	INIT NO: 2	21 (PARTI	AL FRACT	ION)		
				Ex 21	1	1011)	2	
01 2 3 4	1567							
$Q_{1}, 2, 3, -$	т, 3, 0, 7,			F 24				
01.0.0				EX. 21.	Z		$\sim$	
Q1, 2, 3, 4	4, 5, 6	$\langle \rangle$				CA	5	
		XV	UNIT NO:	22 (BASIC	C STATIST	ICS)		
		T	OPIC: ARI	THMETIC	MEAN (A.	M) $\overline{X}$		
Q. Fi	nd A.M of e	lectricity con	nsumption (	kwh) of a sh	op for EC da	ays.		
Elec	ctricity	68-87	88-107	108-127	128-147	148-167	168-187	188-207
Consu	umption							
No. o	of days	10	13	15	10	4	6	2
Topic: M	edian for G	rouped Dat	a with and	without Cla	ass Limits /	Boundary		
Q. Fi	nd the media	an electricity	consumption	on of a shop	for 60 days	using the da	ta.	
Elec	tricity	68-87	88-107	108-127	128-147	148-167	168-187	188-207
Const	imption							
No. o	of days	10	13	15	10	4	6	2
Q. Fi	nd the media	an for the fol	lowing data	l				

#### **Topic: Modal Or Mode For Grouped Data With And Without Class Boundary**

Q. Find modal kwh electricity consumption of a shop for 60 days using the following data.

Electricity Consumption	68-87	88-107	108-127	128-147	148-167	168-187	188-207
No. of days	10	13	15	10	4	6	2

#### Q. Find the made for the following data.

Marks obtained	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of Students	2	8	9	5	4	3	1

#### **Topic: Variance For Ungrouped Data**

Q.	Find the	variance	of the	following	data
----	----------	----------	--------	-----------	------

Marks of Students 90	30	85	50	25	60	71
----------------------	----	----	----	----	----	----

#### **Topic: Variance for Grouped Data**

Q. Find variance in mass of 50 blocks of metal as distributed in the following data.

Mass of blocks (Kgs)	71-73	74-76	77-79	80-82	83-85	86-88	88-90
No. of blocks	3	5	9	14	11	6	2

#### **Topic: Standard Deviation for Ungrouped Data**

Q.	Find the standard deviation of the following data.								
	Marks of Students	90	30	85	50	25	60	71	80

#### **Topic: Standard Deviation for Grouped Data**

Q. Find the S.D of the following data.

Mass of blocks (Kgs)	71-73	74-76	77-79	80-82	<b>83</b> -85 86-88	89-91
No. of blocks	3	5	9	14	11 6	2

# **Topic: Mean Deviation for Ungrouped Data**

Q. Find the mean deviation of the following of	data
--	------

Marks of Students	90	30	85	50	25	60	71	81

# **Topic: Mean Deviation for Grouped Data**

Q. Find the mean of the following data.

Mass of blocks (Kgs)	71-73	74-76	77-79	80-82	83-85	86-88	89-91
No. of blocks	3	5	9	14	11	6	2

# **Topic: Geometric Mean for Ungrouped Data**

Q. Find average amount of cold drink using G.M. in the following data.

Amount of cold drink (lit)	1.48	1.49	1.50	1.51	1.52
No. of bottles	2	7	5	5	1

# **Topic: Geometric Mean for Grouped Data**

Q. Find G.M of the electricity consumption data.

Electricity Consumption	68-87	88-107	108-127	128-147	148-167	168-187	188-207
No. of days	10	13	15	10	4	6	2

40

# **Topic: Harmonic Mean for Ungrouped Data**

Q. The amount of cold drink (Lit) is given for 20 bottles. Find H.M amounts.

Amount of cold drink (lit)	1.48	1.49	1.50	1.51	1.52
No. of bottles	2	7	5	5	1

# Topic: Harmonic Mean (H.M) for Grouped Data

Q. Find harmonic mean mass (kgs) of 50 blocks of metals.

Mass of blocks (Kgs)	71-73	74-76	77-79	80-82	83-85	86-88	89-91
No. of blocks	3	5	9	14	11	6	2

# UNIT NO: 30 INTRODUCTION TO TRIGONOMETRY

Q1, 2, 3, 6, 7, 8, 9, 10		
A EC	Ex. 30.3	e la
Q5, Q6 (I – V)		
	Ex. 30.4	
Q1 (I – XIII)		
Q2 (I – III)		775
	Fx 305	
Q1, 2, 3, 4, 5	LA: 50.5	
Theorems (Short)		
A stronght drown trom the contro of a giral to h	react a chard (IV	high is not a diamataria Darpandiaular to

A straight, drawn from the centre of a circle to bisect a chord (which is not a diameter)is Perpendicular to the chord.(M.P, 2023) ....OR...

Perpendicular from the centre of circle to a chord bisects it....OR...

If two chords of a circle are congruent then they will be equidistant from the centre.

If the angles subtended by two chords of a circle (or congruent circles) at the centers(corresponding centers) are equal, the chords are equal. Prove it. (P.M)...OR... Equal chords of a circle (or of two circles) subtend equal angles at the centre (at the corresponding centers).

# (Long)

In a right angle triangle, the square of the length of hypotenuse is equal to the sum of the squares of the length of the other two sides. (2023)...OR...If the square of the one side of triangle is equal to the sum of the squares of the other two sides, then the triangle is right angled triangle. Prove it. (M.P)

Q14 A line parallel to one side of triangle and intersecting the other two sides, divides them proportionally . Prove it. (M.P)...OR...If a line segment intersects the two sides of a triangle in the same ratio then it is parallel to the third side. (2023)

Q16 The tangent to a circle and the radial segment joining the point of contact and the centre are perpendicular to each other . Prove it. (M.P)...OR...If a line is drawn perpendicular to a radial segment of a circle at its outer end point, it is tangent to the circle at that point. (2023)

# Geometry

# Ex. 29.5

Q1,2,3



EXCELLENCE IN EDUCATION SINCE 1989 CLASS: X | SUBJECT: PHYSICS | PREPARATION PAPER 2023 - 2024 | BY: SIR MUHAMMAD ASLAM

# "GENERAL WAVES PROPERTIES # 10"

- 1. Define: wave, Frequency, Time period, Amplitude, Wave length, Refraction of wave, Diffraction of wave, wavefront
- 2. Write difference between Transverse waves and Longitudinal wave, Mechanical waves & Electromagnetic waves.
- 3. Define, wave speed and derive  $V = f \Lambda$ .
- 4. Define, Simple harmonic motion and write necessary conditions for a body to execute simple harmonic motion.
- 5. With the help of diagram, explain SHM in the simple pendulum OR in the Ball & Bowl system *Numerical: W.E # 3, 4. Section (C). Q 1, 2, 3, 4, 7, 8.*

# <u>"SOUND # 11"</u>

- 1. Define, Sound, Sound intensity, Noise pollution, Echo, Ultrasound, Infrasonic & Audible frequency.
- 2. Why Sound requires a material medium for its propagation? Cite an experiment to prove this statement.
- 3. Define speed of and describe the factors that affect the speed of sound in air.
- 4. Define Loudness, Pitch and Quality give examples.
- 5. Write differences between Musical sound and Noise.
- 6. Define musical sound and describe characteristics of musical sound.
- 7. Write applications of ultrasound techniques in industry and medicine.
- 8. Why is the speed of the sound greater in solids than in liquids or gases?

# Numerical: W.E # 1, 2, 3. Section (C). Q 1, 2, 3, 4.

# "ELECTROMAGNETIC SPECTRUM # 12"

- 1. Define: Dispersion of light, Rainbow, Spectrum, Sunbeds, Fluorescent & Sterilization.
- 2. Define Dispersion of light and describe the Dispersion of light of when passing through a glass prism.
- 3. Define Rainbow and describe dispersion of light through water droplets.
- 4. Define electromagnetic waves and write characteristics of electromagnetic waves.
- 5. List the main components of the electromagnetic spectrum in decreasing order of their wave length.
- 6. Write uses of electromagnetic waves.
- 7. Write three uses/applications of X-Rays, Gamma rays and Radio waves.

Numerical: W.E # 1. Section (C). Q 2, 3, 4, 5, 6, 7

# **"GEOMETRICAL OPTICS # 13"**

- 1. Define, Regular & Irregular reflection, Focal length, Principal Focus, Radius of Curvature, Critical angle Prism, Optical fiber, Power of lens, Magnification.
- 2. What is reflection of light? Also state the laws of reflection of light.
- 3. Define Refraction of light and laws of refraction.
- 4. With the help of diagram describe total internal reflection and write conditions for total internal reflection.
- 5. Write difference between: i. Concave mirror & Convex mirror ii. Real image & virtual image
- 6. Write the uses of spherical mirror / concave mirror / convex mirror.

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- 7. With the help of a ray diagram show the nature of the image formed in a concave mirror. When: (i) The object is placed beyond 'C' (ii) The object is placed at 'C' (iii) The object placed between F and C (iv) The object at F (v) The object is placed at b/w 'F' and 'P'
- 8. Derive the equation  $\frac{1}{f} = \frac{1}{p} + \frac{1}{q}$  using the ray diagram of a concave mirror.
- With the help of a ray diagram, give the magnifying powers of the following optical instruments:
   i. Simple microscope or magnifying glass. ii. Compound microscope. iii. Refracting telescope.
- 10. What is short sightedness & long sightedness? What are the causes of short & long sight? How can these defects be corrected with the help of ray diagram?

Numerical: W.E # 1, 4, 6. Section (C). Q 1, 2, 3, 4, 5, 6

# <u>"ELECTROSTATICS # 14"</u>

- 1. Define: Electric field, Electric field intensity, unit of charge (Coulomb), Farad, Electrostatic Potential, Capacitor
- 2. Define electrostatic induction and describe it with the help of experiment with the use of two metal sphere.
- 3. State Coulomb's law and derive its formula.
- 4. Define capacitance of a capacitor and what factors does the capacity of a capacitor depends?
- 5. Write name of application of electrostatics, explain spray painting.
- 6. Define Parallel & Series combination of capacitor and with the help of diagram derive formula for total capacitance.

Numerical: W.E # 1, 2. Section (C). Q 1, 2, 3, 4, 5, 6

# <u>"CURRENT ELECTRICITY</u> # 15"

- 1. Define: Conventional current, electronic current, Electromotive Force (e. m. f), Volt, Ampere, Ohm, Resistance, Resistor, Thermistors, Joule's law
- 2. Write the difference between the following: i. A.C and D.C ii. Ammeter & Voltmeter
- 3. State Ohm's law and derive its formula also write Ohm's law Limitations.
- 4. Define Resistance write factors affecting the Resistance also write uses of resistance.
- 5. Define Electric Power & Power dissipation, derive  $P = \frac{V^2}{P}$
- 6. What is Galvanometer and Ammeter? How a galvanometer can be converted into an ammeter & voltmeter? Also state how an ammeter & voltmeter is connected in electrical circuit?

Numerical: W.E # 1, 4. Section (C). Q 1, 2, 3, 4, 5, 6, 7

# "ELECTROMAGNETISM # 16"

- 1. Define: Magnetic field, Right Hand Rule, Magnetic field induction (B), Electromagnetic induction, Mutual induction.
- 2. Define electromagnetic force. Derive an expression for force on a moving charge in a magnetic field.
- 3. Describe turning effect on a current caring coil in a magnetic field with diagram.
- 4. State Faraday's law of induction and write factor affecting the magnitude of an induced e.m.f.
- 5. Define DC motor and write it's working.
- 6. State & explain Lenz's law of electromagnetic induction.
- 7. Define A.C generator, write working principle & working of AC generator.
- 8. Define Transformer and its types also write daily life applications of transformers Numerical: Section (C). Q 1, 2, 3, 4.

# **"INTRODUCTORY ELECTRONICS # 17"**

- 1. Define Electronics, Thermionic emission, Electron Gun & Logic gates.
- 2. Write differences between analogue and digital electronics.
- 3. What is cathode ray Oscilloscope? Also describe the basic principle and working with diagram. write uses of CRO.

# "INFORMATION AND COMMUNICATION TECHNOLOGY # 18"

- 1. Define ICT, Flow of information, Primary memory, Secondary storage devices, Internet.
- 2. Write Important parts of communication system.
- 3. Describe transmissions of radio waves through space.
- Describe data management monitoring and control. 4.
- Write differences between i. Hardware and Software, ii. RAM and ROM. 5.

# "ATOMIC STRUCTURE # 19"

- Define Atom, Quark, Atomic number (z), Mass Number (A), Nuclides, Isotopes 1.
- Describe the structure of an atom. 2.
- Write Geiger and Marsden ( $\alpha$  scattering experiment) and its results in detail. 3.

# "NUCLEAR STRUCTURE # 20"

- 1. Define, Nuclear Physics, Radioactivity, Ionization, Penetrating power, Nuclear transmutations, Half-life, Radioactive dating, Radioisotopes, Nuclear reactor, Background radiation
- 2. Describe Nature of radioactive emission with help of diagram.
- 3. Define Radioactive disintegration and Describe Alpha ( $\alpha$ ) decay, Beta ( $\beta$ ) decay, Beta ( $\beta$ ) + decay.
- 4. Write difference between fission & fusion reaction.
- 5. Write applications of radioisotopes in medicine, agriculture, & industrial fields. Numerical: W.E # 1, 2, 3. Section (C). Q 1.

# WISH YOU GOOD LUCK!!! ELENG:

8

# EXCELLENCE IN EDUCATION SINCE 1989

CLASS: X | SUBJECT: BIOLOGY | PREPARATION PAPER 2023 - 2024 | BY: SIR AHMED TAHIR

#### According To The New Book Of STBB BIOLOGY SSC-II | SESSION 2023-24



#### **SHORT QUESTIONS:**

- 1. Differences B/W Photosynthesis and Respiration:
- 2. Role of opening and closing of stomata:
- 3. Mechanism of Human respiratory system: LONG QUESTIONS:
- 4. Structure of Human respiratory system:
- 5. Respiratory Disorders:



#### SHORT QUESTIONS:

- 1. Adaptation of plant in maintaining different internal condition:
- 2. Removal of extra water in plants: (For Short Note)
- 3. Osmotic adjustment in plants:
- 4. Osmoregulation in terrestrial organism: (For Short Note)
- 5. Short note on excretion: LONG QUESTIONS:
- 6. Structure and mechanism of human skin:
- 7. Urinary System in Man:
- 8. Structure of kidney: (For Diagram)
- 9. Structure of nephron: (For Diagram)
- 10. Urine formation: (For Long Question)
- 11. Disorders of kidneys:

# CHAPTER # 03 Co-Ordination And Control

# SHORT QUESTIONS:

- 1. Types of co-ordination:
- 2. Co-ordination in lower living organisms:
- 3. Nervous Disorders (Short Note)
- 4. Structure of Neuron: LONG QUESTIONS:
- 5. Structure of Human eye:
- 6. Endocrine Glands: (All)
- 7. Human Nervous System (Whole Topic)

# CHAPTER # 04 Support And Movement

#### SHORT QUESTIONS:

- 1. Difference Between: \* Movement and Locom
  - \* Movement and Locomotion \* Internal and External Stimuli
- 2. Describe different type of movement on the basis of response
- 3. Explain skeleton and also write its types: LONG QUESTIONS:
- 4. Explain the process of bone healing in detail step by step:

BY: FACULTY OF BIOLOGY

- 5. What are joints? Also write its types in detail:
- 6. Explain the types of muscles along with diagram:
- 7. What are the disorders of skeleton system, Explain in detail:

# CHAPTER # 05 Reproduction

#### SHORT QUESTIONS:

Difference between: \*Sexual and Asexual reproduction \*Epigeal and hypogeal germination

- 2. Methods of Asexual reproduction:
- 3. Sexual reproduction in flowering plants: LONG QUESTIONS:
- 4: Pollination and its types:
- 5: Describe seed and its structure:
- 6. Describe the process of germination of seed:
- 7. Describe the process of asexual reproduction in animals in detail: (For long Question)
- 8. Describe the process of Sexual reproduction in animals in detail: (For long Question)
- 9. What is fertilization: Also Write its types: (For long Question)

# CHAPTER # 06 Inheritance

\* Genes

#### SHORT QUESTIONS:

1. Define:

1.

- \* Inheritance. \* Heredity. \* Variations.
- 2. Describe the structure of Chromosome and Genes:
- 3. Describe Rh blood type:
- 4. What are causes of variation: LONG QUESTIONS:
- 5. What is Mendel's law of complete dominance:
- 6. Explain law of Segregation/ Law of purity of gametes:
- 7. Explain the law of Independent assortment:
- 8. Describe Multiple Allele with the example of Blood group:
- 9. Describe Darwin's theory in detail:
- 10. Explain the procedure of The Central Dogma of protein synthesize by Gene in detail:
- 11. Briefly explain the structure of DNA along with diagram:

# CHAPTER # 07 Man And Its Environment

#### **SHORT QUESTIONS:**

- 1. Write components of Ecosystem:
- 2. Define Food Chain and Food Web:
- 3. What is Biogeochemical cycle: LONG QUESTIONS:
- 4. Describe Nitrogen cycle in detail:
- 5. What is the interaction of living things in the ecosystem:
- 6. Write a note on Acid Rain or Deforestation
- 7. What is pollution? Also write its types

# CHAPTER # 08 Biotechnology

#### LONG QUESTIONS:

- 1. Define Biotechnology: Also describe its importance and scope of biotechnology:
- 2. Explain the term fermentation: Also write its importance:
- 3. Define Genetic Engineering: Also write its uses:

\*Vegetative and Artificial propagation \*Spermatogenesis and Oogenesis

# CHAPTER # 09 Pharmacology

# SHORT QUESTIONS:

- 1. Describe Medicinal drugs and where they are obtained from?
- 2. What are the uses of medicinal drugs:
- 3. Describe Addictive drugs: Also describe its types:
- 4. Write the discovery of antiseptic or antibiotic:
- 5. What are the role of vaccine and antibiotics : Also defone immunizations:



#### **EXCELLENCE IN EDUCATION SINCE 1989**

CLASS: X | SUBJECT: CHEMISTRY | PREPARATION PAPER 2023 - 2024 | BY: SIR MUHAMMAD RAF

# According To The New Book Of STBB

# CHEMISTRY SSC-II | SESSION 2023-24

#### CHAPTER # 01 CHEMICAL EQUILIBRIUM

- 1. Define the following terms:
  - Chemical equilibrium

Active mass

- Equilibrium constant
- 2. Write down any three macroscopic properties of chemical equilibrium
- 3. How can the direction of a reaction be predicted if Kc is known to you?
- 4. Write equilibrium constant expressions and units of Kc for the following reactions:
  - $2SO_2 + O_2 \rightleftharpoons 2SO_3$
  - $N_2 + 3H_2 \rightleftharpoons 2NH_3$
  - $H_2 + I_2 \rightleftharpoons 2HI$
- 5. Predict which system at equilibrium will contain maximum amount of reactant or product:
  - $2CO_2 \rightleftharpoons 2CO + O_2 K_c = 3.1 \times 10^{-18} \text{ mol.dm}^{-3}$
  - $2O_3 \rightleftharpoons 3O_2 \text{ K}_c = 5.9 \text{ x } 10^{55} \text{ mol.dm}^{-3}$
- 6. Write three points of differences between reversible and irreversible reactions.
- ourse Coordinator: Sir Asif Izhar 7. State the law of mass action. Derive the expression for the equilibrium constant of a reaction aA + bB $\rightleftharpoons$  cC + dD

#### CHAPTER # 02 ACIDS, BASES AND SALTS

- 1. Define the following terms:
  - pH
  - pOH •
  - Neutralization
- 2. What is Bronsted-Lowry acid-base theory? Give its limitations.
- 3. Explain Lewis theory of acid-base with the examples of NH<sub>3</sub> and AlCl<sub>3</sub> or BF<sub>3</sub>
- 4. What is salt? Give its preparation. Also explain its types with examples.
- 5. Describe Arrhenius acid-base theory. Also write down its limitations.
- 6. What are buffers? Classify them. Write down any two factors on which pH of a buffer depends.
- 7. Prove pH + pOH = 14.
- 8. Write down any one use of the following salts:
  - Calcium sulphate di hydrated
  - Copper sulphate
  - Iron sulphate hepta hydrated

- Sodium hydrogen carbonate
- Barium sulphate
- Potassium per manganate

#### CHAPTER #03 ORGANIC CHEMISTRY

- 1. Define the following:
  - Organic chemistry
  - Functional group
  - Isomerism
- 2. Identify the functional groups in the following compounds:
  - CH<sub>3</sub>—CHO
  - CH<sub>3</sub>—CH<sub>2</sub>—OH
  - CH<sub>3</sub>—CO—CH<sub>3</sub>

- Homologous series
- Alkyl radicals
  - CH<sub>3</sub>-COOH
  - $CH_2 = CH_2$



Contact No: 0321-21087.25

- 3. Write the names and structural formulae of five carbon compounds in alkane, alkene and alkyne.
- 4. Write down three characteristics of organic compounds.
- 5. Write down three uses of organic compounds.
- 6. Differentiate between saturated and unsaturated hydrocarbons.
- 7. Draw the possible structures of pentane.
- 8. Give a brief account of the natural sources of organic compounds.
- 9. Classify organic compounds. Also write down suitable examples for each.

#### CHAPTER # 04 BIOCHEMISTRY

- 1. Define the following:
  - Lipids
  - Fatty acid

- Bloor's reagent
- Peptide linkage
- 2. What are nucleic acids? Explain the structures and functions of DNA and RNA.
- 3. What are amino acids? How do they polymerize to form proteins?
- 4. What are proteins? Write the importance of proteins.
- 5. Differentiate between:
  - Fat and oil
  - Fat soluble vitamin and water soluble vitamin
- 6. What are carbohydrates? Give their classification. Explain any two of them.
- 7. What are vitamins? Give their classification on the basis of solubility. Name the diseases caused by the deficiency of vitamins B, C and D.

#### CHAPTER # 05 ENVIORNMENTAL CHEMISTRY-I THE ATMOSPHERE

- 1. Define the following terms:
  - Environmental chemistry

• Ozone hole

- 2. Define atmosphere. Enlist the names of layers of atmosphere.
- 3. Define pollutant. Enlist the names of seven types of pollutants.
- 4. Differentiate between troposphere and stratosphere.
- 5. What are primary and secondary air pollutants? Give the sources and environmental effects of any three air pollutants.
- 6. How does greenhouse effect increase the temperature? Explain its effects on environment.
- 7. Define acid rain. How is it formed? Also write down its three effects on environment.
- 8. What is ozone? How is ozone layer depleted? What are the harmful impacts of ozone depletion?

# CHAPTER # 06 ENVIORNMENTAL CHEMISTRY-I WATER

- 1. Write down any three major properties of water.
- 2. Discuss "water as a solvent" with reference to its polar nature and extensive hydrogen bonding ability.
- 3. Differentiate between soft water and hard water.
- 4. Write down any three disadvantages of using hard water.
- 5. What do you mean by 'water borne diseases'? Describe some them.
- 6. What is hard water? Give the cause of hardness. Explain how temporary and permanent hardness can be removed.
- 7. What is water pollutant? Write down the names of three water pollutants and explain any two of them.

#### CHAPTER # 07 ANALYTICAL CHEMISTRY

- 1. Define the following:
  - Analytical chemistry
  - Analyte
  - Matrix
  - Sample
- 2. Define error. Give its classification and explain them with examples.
- 3. Differentiate between:
- 4. Qualitative analysis and quantitative analysis
- 5. Classical method and advanced instrumental method
- 6. Define qualitative analysis. What are organic and inorganic qualitative analysis? Explain with examples.
- 7. Define quantitative analysis. What are the physical and chemical methods of quantitative analysis?
- 8. List down the names of physical methods of quantitative analysis.
- 9. Explain titrimetric analysis.
- 10. Define gravimetric analysis. What are the steps involved in gravimetry?
- 11. Define spectroscopy. How is it used in the chemical analysis of a substance? Also discuss its types.
- 12. Define chromatography. Describe High Performance Liquid Chromatography OR Gas Chromatography with diagram. Also write down its two uses.
- 13. Define conductometry. Enlist its three uses.
- 14. Explain the construction and working of the electrochemical cell used in the electrochemical method of analysis.

# CHAPTER # 08 INDUSTRIAL CHEMISTRY

- 1. Define the following:
  - Saponification
  - Carbonation
  - Fractional distillation
  - Petroleum
- 2. Describe the raw materials used in the preparation of soap.
- 3. Describe the process of saponification with the help of process flow diagram.
- 4. Explain the stepwise method of preparation of soft drinks in industries.
- 5. Write down any three points to describe the importance of pharmaceutical industries.
- 6. Explain the process of preparation of sugar from sugar cane.
- 7. What is petroleum? How is it fractionally distillated? What fractions are obtained? Name some of them.

- Accuracy
- Precision
- Deviation
- Potentiometry

**EXCELLENCE IN EDUCATION SINCE 1989** 

CLASS: X | SUBJECT: COMPUTER STUDIES | PREPARATION PAPER 2023 - 2024 | BY: SIR ABDUL QADIR

# PREPARATION PAPER FOR COMPREHENSIVE AND ANNUAL EXAMINATION YEAR : 2023-2024

**SECTION 'B'** 

# SHORT QUESTIONS/ANSWERS

#### CHAPTER NO.1: Problem Solving and Algorithm designing

- 1. Define problem solving.
- 2. Define Algorithm.
- 3. Write any three characteristics of Algorithm.
- 4. Difference between algorithm and flowchart.
- 5. Why do we need to draw a flowchart in programming.
- 6. List out all flowchart symbols with its description.
- 7. Difference between stack and queue.

# CHAPTER NO.2: Basics of Programming of C++

- 8. Difference between high level language and low level language.
- 9. Write any three advantages of high level language.
- 10. Write any three disadvantage of low level language.
- 11. Define IDE with its three benefits in C++.
- 12. Define Reserved word.
- 13. Difference between constant and variable.
- 14. Write any three rules of naming variable / identifiers.
- 15. How does declare and initialize variable? Explain briefly. (see page no.43 from book)

\* cin

# CHAPTER NO.3: Input and Output handling in C++

- 16. Define main function of C++.
- 17. What do you know about return value in a C++ program.
- 18. Define the following:
  - \* Getch() \* getchar

\* cout

- 19. What is the importance of <iostream> header file in C++?
- 20. Why does C++ is a case sensitive language? Explain.
- 21. Define Escape sequence with any four escape sequences.

# CHAPTER NO.4: Control Structure

- 22. Define control structure name some important control structures.
- 23. Difference between If...statement and else...if statement.
- 24. Define switch statement with syntax.
- 25. Difference between while loop and do...while loop.
- 26. Define Nested loops. (see page no.84 from Book)
- 27. Difference between break and continue jump statement.

\* gets()

\* puts()

# **BY: FACULTY OF COMPUTER SCIENCE**

#### **CHAPTER NO.5: Functions**

28. Define Function with examples.

- 29. Difference between function definition and function calling. (see page no.98 from book)
- 30. Difference between local variable and global variable.

#### CHAPTER NO.6: Digital logic and design

- 31. How does data represent in computer? Explain. (see page no.108 from book)
- 32. Draw a logic symbol and truth table of 3-inputs OR, AND, NOR, NAND gates.
- 33. Difference between basic logic gates and universal logic gates.
- 34. Define the following Boolean Algebra terms:
  - \* Constant \* variable \* truth table \* logic operators

#### **CHAPTER NO.7: Introduction to Scratch**

- 35. Write some important points about scratch software.
- 36. Define the term sprites and scripts.
- 37. Define the following scratch commands:
  - \* Events \* motion

\* control

\* looks

#### **SECTION 'C'**

\* sound

#### **DESCRIPTIVE QUESTIONS/ANSWERS**

#### CHAPTER NO.1: Problem solving and Algorithm design

- 1. Describe linear and non linear data structure in detail with necessary diagram in detail.
- 2. Describe different steps of problem solving process in detail.

#### CHAPTER NO.2: Basics of Programming of C++

- 3. Describe language translators with its main translator programs in detail.
- 4. Define Computer errors with its different types in detail.
- 5. Describe main components of IDE in detail.
- 6. Describe data types used in C++ with its memory size, range and keyword.

# <u>CHAPTER NO.3: Input / Output handling in C++</u>

- 7. What do you know about comments ? also describe different types of comments.
- 8. Describe C operators in detail with appropriate examples of using in C++.

#### **CHAPTER NO.4: Control Structure**

- 9. Define the following:
  - \* Goto b. exit c. for loop

d. nested for loop

#### **CHAPTER NO.5: Functions**

10. Describe user defined functions with its main parts in detail.

# CHAPTER NO.6: Digital logic and design

11. Describe different Rules of Boolean Algebra with verify.

#### **CHAPTER NO.7: Introduction to Scratch**

12. Describe the following block of scratch:

\* looks \* events

\* motion

\* control

\* sound

# IMPORTANT PROGRAMS WITH ALGORITHM AND FLOWCHART:

- 1. Write a program to generate cube and squares of first ten natural numbers.
- 2. Write a program to find out the greatest number by giving any three numbers.

- 3. Write a program to add numbers from 1 to 20.
- 4. Write a program to generate any multiplication table uptill 10 times.
- 5. Write a program of the following output:

(a)	*	(b)	1	(c)	1
	**		12		22
	***		123		333
	****		1234		4444
	****		12345		55555

6. Write a program on the following given series by using for loop:

0, 5, 10, 15, 20, 25, 30, 35 . apply the technique no return value and no pass parameter in program.

7. Write a program that provides factorial of a given number.

#### SPECIAL NOTE:

- All lectures and practice work that has done in class are important for comprehensive and Annual examination.
- You have to prepare overall don't rely only on preparation paper.
- Reading book is mandatory for <u>MULTIPLE CHOICE QUESTIONS.</u>

