महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ,पुणे ४ सर्व्हे नं ८३२ अ. फायनल प्लॉट क्र.१७८/१७९, बी.एम.सी.सी.रोड, बालचित्रवाणी शेजारी, भांबुर्डा, शिवाजीनगर, पुणे - ४११००४

फोन नं.०२०-०२५७०५०००

फॅक्स न ०२५७०५१२२/२५६६५८०७

क.रा.मं/पापुईं/**८७४)** पुणे—४११ ००४ दि.२९/११/२०२१

प्रति,

विभागीय सचिव, सर्व विभागीय मंडळे,

विषय :- (NSQF) अंतर्गत व्यवसाय शिक्षण अभ्यासक्रमाबाबत.

संदर्भ :- पत्र क.पा.क समग्र शिक्षा/व्यवसाय शिक्षण ७९/२०२१/३२३९ दि.२९/१०/२०२१ चे पत्र.

उपरोक्त विषयाच्या संदर्भात आपणास कळविण्यात येते की, इयत्ता १० वी फंबर जनरल(९८) सुधारीत आराखंडे व इयत्ता १२ वी (१) दुरीझम हॉस्पीलीटी (G 9) (२)इलेक्ट्रॉनिक्स (F 6) या विषयाचे आराखंडे तयार करुन घेण्यात आलेले आहेत. सदर आराखंडे आपल्या माहितीसाठी तथा पुढील कार्यवाहीसाठी सोबत पाठविले आहेत.तसेच सदर आराखंडे आपल्या कार्यक्षेत्रातील सर्व उच्च माध्यमिक शाळा /किनष्ठ महाविद्यालय यांना माहितीस्तव तथा कार्यवाहीस्तव पाठवावेत. सदर आराखंडे मंडळाच्या www. mahasscboard. in या संकेत स्थळावर उपलब्ध करुन देण्यात आलेले आहेत सदर प्रकरणी आपण केलेल्या कार्यवाहीचा अहवाल या कार्यालयास पाठवावा.

(डॉ.अश्मेक भोसले) सचिव राज्यमंडळ, पुणे

क्र.कोविमं/उ.मा.गोपनीय/ 2018 कोल्हापूर-४१६ ००४ दिनांक - १४/१२/२०२१

प्रति,

मुख्याध्यापक / प्राचार्य, सर्व मान्यताप्राप्त माध्यमिक शाळा व कनिष्ठ महाविद्यालये, सातारा / सांगली / कोल्हापूर.

उपरोक्त परिपत्रक आपल्या माहितीस्तव तथा कार्यवाहीस्तव पाठविण्यात येत आहे. सदर परिपत्रकाप्रमाणे योग्य ती कार्यवाही करावी.

श्रीमता सार्वत एस. एस. प्र.विभागीय सचिव कोल्हापूर विभागीय मंडळ, कोल्हापूर

EVALUATION SCHEME

For March-2022 and on words Examination STD-X

Plumber (98)

Scheme of Examination:

Sr. No.	Method of Assessment	Weightage of Marks	Evaluator
1	Theory Paper (Written)	30 Marks (80 Marks converted 30 Marks)	School / State Board
2	Practical Exam	30 Marks	Certified Assessor/State Board
3	Term Work (Journal)	10 Mark	School Instructor / Trainer
4	Project Work	10 Mark	School Instructor / Trainer
5	Oral / Viva Vocu	10 Mark	School Instructor / Certified Assessor
6	Direct Observation	10 Mark	School Instructor / Certified Assessor
	Total Marks	100 Marks	

1] Unit wise Marks Distribution of written test paper:

Paper Time: 3 hours

Marks: -80

Sr. No	Unit (Contains)	Mark	Mark With option
i	Communication Skills	05	03
2	Self-Management Skills	03	03
3	Information and Communication Technology Skills	05	38
4	Entrepreneurial Skills	04	08
5	Green Skills	03	03
6	Pipes-Cutting, Threading, Joining and Testing of Pipelines	14	20
7	Plumbing and Sanitary Fixtures	08	11
8	Basic Building Construction	08	12
9	Pumps And Their Installation	10	16
10	Performing Various Plumbing Related Operations And Procedures	12	16
11	Maintaining A Healthy Safe And Secure Work Environment	08	15
	Total	80	120

2 Practical Exam:

Practical Time	• 3 Hours
Practical Subject	As per Plumber (General) book
	from the text book by lot system to each group
/ individual.	
• Total Marks of Practical	• 30 Marks

3] Term Work (Journal):

• Term Work (Journal)	Journal maintained by the students during the academic year.
• Term Work (Journal) Subject	Plumber (General)
Total Marks	• 10 Marks

4] Project Work:

- The project work given in syllabus is only for guideline.
- Candidate, with approval from the Instructor / Trainer, may choose any one project and prepare it.
- He has full liberty to prepare any useful project other than the mentioned projects.
- He may write a visit report about any nearest Industry and their product.
- One project should be compulsory for each student or a group of maximum 4 students.

• Total Marks

• 10 Marks

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2021-22

5] Oral/Viva vocu:	10 Marks
6] Direct Observation:	10 Marks

Written Test Paper - STD-X

Plumber (98)

Question Wise Distribution of Marks.

Sr. No	Types of Questions	Marks	Marks with option
1	Objectives (1 Mark)	20	20
2	Short Answer Type (3 Marks)	24	36
3	Long Answer Type (4 Marks)	24	40
4	Long Answer Type (6 Marks)	12	24
	Total Marks	80	120

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2021-22





Pattern of Question Paper STD- X Plumber (98)

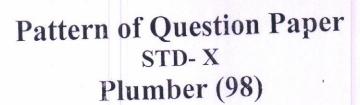
Time: 3	3 hrs.				Marks: 80
Notes:	All questions ar Draw diagrams	e compulsory. wherever necessary.			
Q. No. 1	.A) Select the correct	ct alternative and	rewrite the sente	ence	5
	a)	b)	. c)	d)	
)		b)	c)	d)	
	3	b)	c)	d)	4 9
		b)	c)	d)	
	a)	b)	c)	d)	
	B) Match the follow Column 'A' 1.	ing pairs. Column 'B' a)			5
	2. 3.	b) c)			
	4. 5.	d) e)			
(C) State the following	g statement is tru	e or false and rev	writes the corr	rect statements.5
	1. 2. 3.				* ***
	4. 5.				
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Marks: 80 Time: 3 hrs. 1. All questions are compulsory. Notes: 2. Draw diagrams wherever necessary. 5 Q. No. 1.A) Select the correct alternative and rewrite the sentence 1. Communication Skills c) d)...... b) a) 2. Basic ICT Skills d)..... c) b) a) 3. Pipes-Cutting, Threading, Joining And Testing of Pipelines c) d)..... b) a) 4. Plumbing and Sanitary Fixtures c) d)...... b) a) 5. Basic Building Construction c) d)...... b) a) B) Match the following pairs. Column 'B' Column 'A' a) 1 Plumbing and Sanitary Fixtures b) 2 Basic Building Construction c) 3 Pumps and Their Installation 4 Maintaining A Healthy Safe Secure Work Environment d) 5 Pipes-Cutting, Threading, Joining And Testing of Pipelines e) C) State the following statement is true or false and rewrite the 5 Correct statements: 1 Pipes-Cutting, Threading, Joining And Testing of Pipelines 2 Pumps and Their Installation 3 Plumbing and Sanitary Fixtures 4 Basic Building Construction 5 Maintaining A Healthy Safe Secure Work Environment D) Answer the following questions in ONE sentence. 5 1 Basic Building Construction 2 Pipes-Cutting, Threading, Joining And Testing of Pipelines 3 Basic Building Construction 4 Plumbing and Sanitary Fixtures 5 Pipes-Cutting, Threading, Joining And Testing of Pipeline

 Q. No. 2) Answer the following questions in short. (Any four) 1. Communication Skills 2. Basic ICT Skills 3. Self Management Skills 4. Pipes- Cutting, Threading, Joining and Testing of Pipeline 5. Basic Building Construction 6. Performing Various Plumbing Related Operations and Procedure 	12
 Q. No. 3) Answer the following questions in short. (Any four) 1. Pipes- Cutting, Threading, Joining and Testing of Pipeline 2. Green Skills 3. Performing Various Plumbing Related Operations and Procedure 4. Plumbing and Sanitary Fixtures 5. Pipes- Cutting, Threading, Joining and Testing of Pipeline 6. Maintaining A Healthy Safe Secure Work Environment 	12
 Q. No. 4) Answer the following questions in brief. (Any three) 1. Basic ICT Skills 2. Communication Skills 3. Entrepreneurial Skills 4. Pumps and Their Installation 5. Maintaining A Healthy Safe Secure Work Environment 	12
 Q. No. 5) Answer the following questions in brief. (Any three) 1. Entrepreneurial Skills 2. Pumps and Their Installation 3. Performing Various Plumbing Related Operations and Procedure 4. Plumbing and Sanitary Fixtures 5. Basic Building Construction 	12
 Q. No. 6) Answer the following questions in brief. (Any two) 1. Pipes-Cutting, Threading, Joining and Testing of Pipelines 2. Performing Various Plumbing Related Operations and Procedure 3. Pumps and Their Installation 4. Maintaining A Healthy Safe Secure Work Environment 	12

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STD-X: Blue Print of Unit wise Marks Distribution Plumber (98)

			Kı	nowle	edge				Un	derst	andin	ng			A	pplic	ation			s,	with	
10	O Units		В	SA	4	LA	4	OI	3	SA	1	L	4	o	В	SA	4	L	A	Total Marks	Marks v	
SR.NO	Units	Marks	Questions	Marks	Questions	Marks	Questions	Tota	Total Marks Total Marks with option													
1	Communication Skills	1	1							3	1	4	1							05	08	
2	Self Management Skills															3	1			03	03	
3	Basic ICT Skills	1	1	3	1							4	1							05	08	
4	Entrepreneurial Skills											4	1					4	1	04	08	
5	Green Skills									3	1									03	03	
6	Pipes-Cutting, Threading, Joining and Testing of Pipelines	1	3	3	1			1	1					1	1	3	2	6	1	14	20	
7	Plumbing and Sanitary Fixtures	1	1			4	1	1	2	3	1			1	1					08	11	
8	Basic Building Construction	1	2					1	2			4	1	1	1	3	1			08	12	
9	Pumps and their Installation	1	1									4	2	1	1			6	1	10	16	
10	Performing Various Plumbing Related Operations and Procedure	,	=			4	1			3	1					3	1	6	1	12	16	
11	Maintaining A Healthy Safe Secure Work Environment	1	1					9 mm		3	1	4	1	1	1	Managed - 11	A ANY	6	1	08	15	
		1	10	3	2	4	2	1	5	3	5	4	7	1	5	3	5	4	1 4	80	120	

Note: O.B - Objective.

S.A.- Short answer type (3marks) L.A.- Long answer type (4 marks &6 marks)

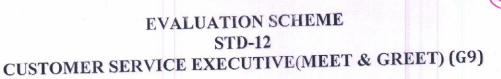
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2021-22

EVALUATION SCHEME STD-12



Scheme of Examination

Scheme of Examination		Waightage of Marks	Evaluator			
Sr. No.	Method of Assessment	Walghtage of 1	School / State Board			
1	Theory Paper (Written)	30 Marks (80 Marks converted 30 Marks)	Certified Assessor			
2	Practical Exam	30 Marks				
2	Term Work (Journal)	10 Mark	School Instructor / Trainer			
3		10 Mark	School Instructor / Trainer			
4	Project Work		Certified Assessor			
5	Oral / Viva Vocu	10 Mark	Certified Assessor			
6	Direct Observation	10 Mark	Certified Assessor			
0	Total Marks	100 Marks	A Property of the Control of the Con			
	Total Maiks					

Paper Time: -3 hours, Marks: -80 11 Unit wise Marks Distribution of written test paper:

	wise Marks Distribution of written test paper. Unit (Contains) A	Mark	Mark With option
Sr. No		04	07
1	Communication Skill	04	07
2	Self Management Skill	04	08
3	Information and Communication Technology		04
4	Entrepreneurial Skill	04	
5	Green Skill	04	04
	Unit (Contains)B	10	16
6	Etiquette & Hospitable conduct	10	
7	Gender & Age sensitive Service practices	10	14
8	Health & Hygiene	12	18
	Safety at Workplace	10	16
9	Learn a Foreign or local Language including English	08	12
10		10	14
11	Customer Centric Services	80	120
	Total	00	

2| Practical Exam:

Practical Time	• 3 Hours
- Practical Subject	Tourism and Travel
• Any one practical should be given from the ter	xt book by lot system to each group / individual.
Total Marks of Practical	30 Marks

31 Term Work (Journal):

3 Term work (Journal).	
Term Work (Journal)	 Journal maintained by the students during the year.
Term Work (Journal) Subject	Tourism and Travel
Total Marks	• 10 Marks

4] Project Work:

- The project work given in syllabus is only for guideline.
- Candidate, with approval from the Instructor / Trainer, may choose any one project and prepare it.
- He has full liberty to prepare any useful project other than the mentioned projects.
- He may write a visit report about any nearest Industry and their product.
- One project should be compulsory for each student or a group of maximum 4 students.

Total: 10 Marks

Written Test Paper Question Wise Distribution of Marks.

Written Test Paper Question wise Distribution of Marks.							
Sr. No	Types of Questions	Marks	Marks with option				
1	Objectives (1 Mark)	20	20				
2	Short Answer Type (3 Marks)	24	36				
3	Long Answer Type (4 Marks)	24	40				
4	Long Answer Type (6 Marks)	12	24				





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Pooja sanjay

17/11/2021



EVALUATION SCHEME

For March-2022 and on words Examination STD-XII

Electronics-Field Technician Wireman Control Panel (F6)

Scheme of Examination:

Sr.	Method of	Weight age of Marks	Evaluator
No.	Assessment		School / State Board
1	Theory Paper (Written)	30 Marks (80 Marks converted 30 Marks)	Certified Assessor/State
2	Practical Exam	30 Marks	Board Leatmeter /
3	Term Work (Journal)	10 Mark	School Instructor / Trainer
4	Project Work	,10 Mark	School Instructor / Trainer
5	Oral / Viva Vocu	10 Mark	School Instructor / Certified Assessor
6	Direct Observation	10 Mark	School Instructor / Certified Assessor
	Total Marks	100 Marks	

1] Unit wise Marks Distribution of written test paper:

Paper Time: 3 hours

Marks: -80

Sr.	Unit (Contains)	Mark	Mark With option
No		04	07
1	Communication Skills-IV	04	07
2	Self Management Skills-IV		08
3	Basic ICT Skills-IV	04	04
4	Entrepreneurial Skills-IV	04	
5	Green Skills-IV	04	04
6	Generation, Transmission and distribution of Electrical Power	12	22
7	Installation and Troubleshooting Electrical Control Panel	16	24
	AC Drive, PLC and Switchboard in Control Panel	14	20
8	Testing and Measurement in Electrical Panel	12	18
9		06	06
10	Safety Measures and Hazard	80	120
	Total		

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2] Practical Exam:

• Practical Time	• 3 Hours
Practical Subject	As per Electronics-Field Technician-Wireman Control Panel practical book
	the alc by lot system to each grou
 Any one practical should be given 	from the text book by lot system
 Any one practical should be given / individual. 	from the text book by lot system to each grou

3] Term Work (Journal):

• Term Work (Journal)	 Journal maintained by the students during the academic year.
Term Work (Journal) Subject	Electronics-Field Technician- Wireman Control Panel
Total Marks	• 10 Marks

4] Project Work:

- The project work given in syllabus is only for guideline.
- Candidate, with approval from the Instructor / Trainer, may choose any one project and prepare
- He has full liberty to prepare any useful project other than the mentioned projects.
- He may write a visit report about any nearest Industry and their product.
- One project should be compulsory for each student or a group of maximum 4 students.

 10 Marks **Total Marks**

-4		
	5] Oral/Viva vocu:	10 Marks
	6] Direct Observation:	10 Marks

Written Test Paper - STD-XII

Electronics & Hardware Field Technician Wireman Control Panel (F6)

Question Wise Distribution of Marks.

Sr.	Types of Questions	Marks	Marks with option
No		20	20
1	Objectives (1 Mark)		36
2	Short Answer Type (3 Marks)	24	30
2		24	40
3	Long Answer Type (4 Marks)		24
1	Long Answer Type (6 Marks)	12	24
4	Total Marks	80	120
	Total Walks		

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Pattern of Question Paper STD-XII

Electronics & Hardware Field Technician Wireman



Control Panel (F6)

Time: 3 hrs.	Marks: 80
Column 'A' 1 Entrepreneurial Skills-IV 2 Installation and Troubleshooting Electrical Control Panel 3 Communication Skills-IV 4 Testing and Measurement in Electrical Panel	5 nn 'B' a) b) c) d) e)
C) State the following statement is true or false and rewrite the correct statements. 1 Communication Skills-IV 2 Entrepreneurial Skills -IV 3 Installation and Troubleshooting Electrical Control Panel 4 AC Drive, PLC and Switchboard in Control Panel 5 Safety Measures and Hazard D) Answer the following questions in ONE sentence. 1 AC Drive, PLC and Switchboard in Control Panel 2 Entrepreneurial Skills -IV	5

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3 Communication Skills -IV	
4 Safety Measures and Hazard	
5 Testing and Measurement in Electrical Panel	
 Q. No. 2) Answer the following questions in short. (Any four) 1. Self Management Skills-IV 2. Communication Skill-IV 3. Generation ,Transmission and distribution of Electrical Power 	12
 4. AC Drive, PLC and Switchboard in Control Panel 5. Testing and Measurement in Electrical Panel 6. AC Drive, PLC and Switchboard in Control Panel 	
 Q. No. 3) Answer the following questions in short. (Any four) 1. Generation ,Transmission and distribution of Electrical Power 2. AC Drive, PLC and Switchboard in Control Panel 3. Testing and Measurement in Electrical Panel 4. Safety Measures and Hazard 5. AC Drive, PLC and Switchboard in Control Panel 6. Installation and Troubleshooting Electrical Control Panel 	12
 Q. No. 4) Answer the following questions in brief. (Any three) 1. Self Management Skills-IV 2. Testing and Measurement in Electrical Panel 3. Installation and Troubleshooting Electrical Control Panel 4. Basic ICT Skills-IV 5. Generation Transmission and distribution of Electrical Power 	12
 Q. No. 5) Answer the following questions in brief. (Any three) 1. Installation and Troubleshooting Electrical Control Panel 2. Basic ICT Skills-IV 3. Green Skills-IV 4. Installation and Troubleshooting Electrical Control Panel 5. Generation Transmission and distribution of Electrical Power 	12
 Q. No. 6 A) Answer any ONE questions in brief. 1. Generation Transmission and distribution of Electrical Power 2. Installation and Troubleshooting Electrical Control Panel 	06
Q. No. 6 B) Answer any ONE questions in brief. 1. Testing and Measurement in Electrical Panel	06

2. AC Drive, PLC and Switchboard in Control Panel



STD-XII

Blue Print of Unit wise Marks Distribution Electronics & Hardware

Field Technician Wireman Control Panel (F6)

		Knowledge					Understanding						Application							otion		
QZ	***	0	В	s	A	L	ıΑ	C	В	s	A	L	A	C	В	s	A	L	A	Aarks	with of	
SR.NO	SR.	Units	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Total Marks	Total Marks with option
1	Communication Skills-IV	1	1					1	1	3	1			1	2					04	07	
2	Self Management Skills-IV	=										4	1			3	1			04	07	
3	Basic ICT Skills -IV					4	1											4	1	04	08	
4	Entrepreneurial Skills-IV	1	1					1	2					1	1				8.	04	04	
5	Green Skills-IV											4	1							04	04	
6	Generation ,Transmission and distribution of Electrical Power	1	1	3	1					3	1	4	1	1	1			4/6	1	12	22	
7	Installation and Troubleshooting Electrical Control Panel	1	1	3	1	4	1	3.7				4/6	1/1	1	2			4	.1	16	24	
8	AC Drive, PLC and Switchboard in Control Panel	1	1							3	2	6	1	1	1	3	2			14	20	
9	Testing and Measurement in Electrical Panel	1	1	3	1			1	1	3	1							4 <u>6</u>	1 1	12	18	
10	Safety Measures and Hazard	1-	1					1	2							3	1			06	06	
·		1	7	3	3	4	2	1	6	3	5	4 6	4 2	1	7	3	4	4 6	4 2	80	120	

Note: O.B – Objective. S.A.- Short answer type (3marks)

L.A.- Long answer type (4 marks & 6 marks) Underlined marks are used for option.

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Pooja Sanjay Deshmulch



17/11/24

Pattern of Question Paper

STD- 12th Subject: "CUSTOMER SERVICE EXECUTIVE (MEET & GREET)" (G9)

Time: 3 hrs.	Marks: 80 Date: / /21
Notes: 1. All questions are compulsory. 2. Draw diagrams wherever necessary.	
Q. No. 1. A) Select the correct alternative and rewrite the sentence / Fill in the l	Blanks. 5.
1. Learn a Foreign or local Language including English a) b) c) d)	
2. Self Management skill a) b) c) d)	
3. Customer Centric Service a)	
4. Etiquette & Hospitable Conduct a) b) c) d)	
5. Health & Hygeine a) b) c) d)	
B) Match the following pairs.	5
Coloumn A Coloumn B	
 Etiquette & Hospitable Conduct Health & Hygeine Safety at Workplace Learn a Foreign or local Language including English Customer Centric Service 	
C) State the following statement is true or false.	5
 Health & Hygeine Safety at Workplace Learn a Foreign or local Language including English 	
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4 Page

STD-12 TRAVEL, CUSTOMER SERVICE EXECUTIVE(MEET & GREET)(G9)

		rks	di Poj												
	Total Marks with Option			7	7	00	4	4	16	14	18	16	12	14	120
	Total Marks				4	4	4	4	10	10	12	10	80	10	08
		L.A.	Questions			н	ı.	1	1	н	1	1	1	1	3 4
	Applications		Marks			4	1	4	9	4	9	4	1	9	4
		S.A.	Questions	н	1	1	,	1	,	ı	н	-	1		n
			Marks	3	1			1			8	3	1	1	e l
		0.B.	Questions			1	1	1	. 1		I.	2	Н	2	5
			Marks		,		1	1	1	ī	1	н	н	1	
BLUE PRINT OF UNIT WISE MARKS DISTRIBUTION	Understanding	L.A.	Questions	,		1	н	1	Н	н		-	н	н	5
			Marks	'		1	4		4	4		9	4	4	4
		S.A.	2 noiteau Q	Н	-	ı	,		1	П	П	1	Н		70
			Marks	3	3	1	1			3	e	1	3		m
SE M		0.B.	Questions	1		1	- 1		Н	,	2	Н	2	н	7
IT W			Marks	1		ï		-	1		н	1	1	1	н
F UN	Knowledge	L.A.	Questions	1		,	1	1	1	ı		-	1		t
BLUE PRINT C			Marks	1		1	1	1	4	1			1		4
		S.A.	Questions	,	Н				ı	1	1	-			4
			Marks	,	3	3 1	1	1	1	3	3	1	1		00
		0.8.	Questions	1	-	1	1	-	1	1	1	1	2	1	8
			Marks	1	1	1	-		1	1	1	1		1	
	UNIT												Н	-	7
				Communication Skill	Self Management Skill	Information & Communication Technology	Enterpreneurial Skills	Green Skills	Etiquette & Hospitable conduct	Gender & Age sensitive Service practices	Health & Hygiene	Safety at Workplace	Learn a Foreign or local Language including English	Customer Centric Services	Total
		S.N.		1	2	3	4	2	9	7	∞	6	10	11	

Note- O.B.-Objective

S.A.-Short Answer Type (3 Marks)

L.A.-Long Answer type-(4 Marks and 6 Marks)

All the paper setters are expected to change the blue print every time.

Poola Saniay Deshmukh.

17/11/202/