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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

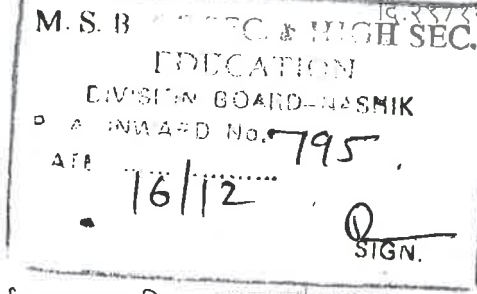
फोन नं. ०२०-०२५७०५०००

फॅक्स न ०२५७०५१२२/२५६६५८०७

क्र. रा मं/पापुई/६७४२.

पुणे-४११ ००४

दि. २९/१०/२०२१



प्रति,

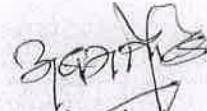
विभागीय सचिव,
सर्व विभागीय मंडळे,

विषय :- (NSQF) अंतर्गत व्यवसाय शिक्षण अभ्यासक्रमाबाबत.

संदर्भ :- पत्र क्र. पा.क्र समग्र शिक्षा/व्यवसाय शिक्षण ७९/२०२१/३२३९

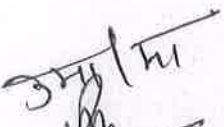
दि. २९/१०/२०२१ चे पत्र,

उपरोक्त विषयाच्या संदर्भात आपणास कळविण्यात येते की, इयत्ता १० वी फ्लंबर जनरल (९८) सुधारीत आराखडे व इयत्ता १२ वी (१) टुरीझम हॉस्पिटीटी (G 9) (२) इलेक्ट्रॉनिक्स (F 6) या विषयांचे आराखडे तयार करून घेण्यात आलेले आहेत. सदर आराखडे आपल्या माहितीसाठी तथा पुढील कार्यवाहीसाठी सोबत पाठविले आहेत. तसेच सदर आराखडे आपल्या कार्यक्षेत्रातील सर्व उच्च माध्यमिक शाळा / कनिष्ठ महाविद्यालय यांना माहितीस्वरुप तथा कार्यवाहीस्वरुप पाठवावेत. सदर आराखडे मंडळाच्या www.mahasssboard.in या संकेत स्थळावर उपलब्ध करून देण्यात आलेले आहेत सदर प्रकरणी आपण केलेल्या कार्यवाहीचा अहवाल या कार्यालयास पाठवावा.


(डॉ. अशोक भोसले)
सचिव
राज्यमंडळ, पुणे

प्रत माहितीस्वरुप

१. शाखाप्रमुख परीक्षा/ गणकयंत्र विभाग यांना माहितीस्वरुप तथा पुढील कार्यवाहीसाठी.
२. मा. शिक्षणाधिकारी सर्व जिल्हा परिषद.
३. शिक्षण उपसंचालक, व्यवसाय शिक्षण संचालनालय, पुणे


मा. सहा. सचिव / सहसचिव / वि. सचिव / वि. अध्यक्ष
15/12

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
1	Communication Skills	05	08
2	Self-Management Skills	03	03
3	Information and Communication Technology Skills	05	08
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

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2] Practical Exam:

• Practical Time	• 3 Hours
• Practical Subject	• As per Plumber (General) book
• Any one practical should be given 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:

<ul style="list-style-type: none"> • 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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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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Pattern of Question Paper STD- X Plumber (98)

Time: 3 hrs.

Marks: 80

- Notes:
1. All questions are compulsory.
 2. Draw diagrams wherever necessary.

Q. No. 1.A) Select the correct alternative and rewrite the sentence 5

1.
a) b) c) d).....
2.
a) b) c) d).....
3.
a) b) c) d).....
4.
a) b) c) d).....
5.
a) b) c) d).....

B) Match the following pairs. 5

Column 'A'	Column 'B'
1.	a)
2.	b)
3.	c)
4.	d)
5.	e)

C) State the following statement is true or false and rewrites the correct statements.5

- 1.
- 2.
- 3.
- 4.
- 5.

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D) Answer the following questions in ONE sentence.

5

- 1.
- 2.
- 3.
- 4.
- 5.

Q. No. 2) Answer the following questions in short. (Any four)

12

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Q. No. 3) Answer the following questions in short. (Any four)

12

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Q. No. 4) Answer the following questions in brief. (Any three)

12

- 1.
- 2.
- 3.
- 4.
- 5.

Q. No. 5) Answer the following questions in brief. (Any three)

12

- 1.
- 2.
- 3.
- 4.
- 5.

Q. No. 6) Answer the following questions in brief. (Any two)

12

- 1.
- 2.
- 3.
- 4.

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Pattern of Question Paper

STD- X

Plumber (98)

Time: 3 hrs.

Marks: 80

- Notes:
1. All questions are compulsory.
 2. Draw diagrams wherever necessary.

Q. No. 1.A) Select the correct alternative and rewrite the sentence 5

1. Communication Skills
 - a)
 - b)
 - c)
 - d).....
2. Basic ICT Skills
 - a)
 - b)
 - c)
 - d).....
3. Pipes-Cutting, Threading, Joining And Testing of Pipelines
 - a)
 - b)
 - c)
 - d).....
4. Plumbing and Sanitary Fixtures
 - a)
 - b)
 - c)
 - d).....
5. Basic Building Construction
 - a)
 - b)
 - c)
 - d).....

B) Match the following pairs. 5

- | Column 'A' | Column 'B' |
|--|------------|
| 1 Plumbing and Sanitary Fixtures | a) |
| 2 Basic Building Construction | b) |
| 3 Pumps and Their Installation | c) |
| 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 Correct statements: 5

- 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

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B. Ghuge

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- Q. No. 2) Answer the following questions in short. (Any four) 12
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
- Q. No. 3) Answer the following questions in short. (Any four) 12
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
- Q. No. 4) Answer the following questions in brief. (Any three) 12
1. Basic ICT Skills
 2. Communication Skills
 3. Entrepreneurial Skills
 4. Pumps and Their Installation
 5. Maintaining A Healthy Safe Secure Work Environment
- Q. No. 5) Answer the following questions in brief. (Any three) 12
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
- Q. No. 6) Answer the following questions in brief. (Any two) 12
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

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

SR.NO	Units	Knowledge						Understanding						Application						Total Marks	Total Marks with option
		OB		SA		LA		OB		SA		LA		OB		SA		LA			
		Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions		
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							3	1	4	1	1	1			6	1	08	15
		1	10	3	2	4	2	1	5	3	5	4	7	1	5	3	5	4	1	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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Sagar B. Ghure

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