

Plan of Written Examination

All the aspirants are informed as under with respect to the written test to be conducted for the recruitment of Plumber **(Advt. No.09 of 2024)** :-

1. The Exam will be conducted in MCQ (Multiple Choice Questions) format. OMR sheets will be used for answering the questions.
2. The Exam would be of 2 hours 30 minutes duration.
3. The Exam will consist of two parts (Part A and Part B) as follows:-

(a) **Part A:-** Qualifying test of Punjabi Language equivalent to Matriculation standard as per Notification No. G.S.R.72 / Const. / Art.309/Amd.(22)/2022, dated:28.10.2022.

Part	Topic	No. of Questions	Marks (Each Question carries 1 mark)	Type of Questions
A	Punjabi (Qualifying Nature) (Annexure-1)	50	50	MCQs (Multiple Choice Questions)

Note:- (i) There will be no negative marking in Part-A.

(ii) Part 'B' will be evaluated only if a candidate scores minimum 50% marks (i.e 25 marks) in Part 'A'.

(b) **Part-B:-** Part-B will consist of two sub-sections i.e Section (I) and Section (II) as following:-

Part	Section	Topic	No. of Questions	Marks (Each Question carries 1 mark)	Type of Questions
B	(I)	Questions from General Knowledge and Current Affairs, Punjab History and Culture, Logical Reasoning and Mental ability, Punjabi, English, Information Technology/Computer (Annexure-2)	40	40	MCQs (Multiple Choice Questions)
	(II)	Questions from the Subject (Annexure-3)	60	60	
	Total		100	100	

Note:- (i) There will be negative marking in Part-B. Each question carries 1 mark. For every wrong answer, 1/4th mark i.e. 0.25 marks would be deducted. The question(s) not attempted will receive no credit or discredit.

(ii) The merit list of only such candidates, who qualify Part-'A', will be prepared on the basis of marks secured by candidate in Part-B.

(iii) Section (II) of Part B contains questions from the Trade/Subject related to the respective post.

4. Tentative syllabus for the written examination for the recruitment of Plumber **(Advt. No. 09 of 2024)** is annexed at Annexure-1, 2 and 3.

Annexure-1

(Punjabi Syllabus)

Part-A (Punjabi Qualifying Exam)

1. ਜੀਵਨੀ ਅਤੇ ਰਚਨਾਵਾਂ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ:-
ਸ੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ, ਸ੍ਰੀ ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਜੀ, ਸ੍ਰੀ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ,
ਸ੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ, ਸ੍ਰੀ ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ, ਸ੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ।
2. ਵਿਰੋਧਾਰਥਕ ਸ਼ਬਦ, ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ।
3. ਮੁਹਾਵਰੇ।
4. ਅਖਾਣ।
5. ਸਬਦ ਦੇ ਭੇਦ।
6. ਅਗੋਤਰ/ਪਿਛੇਤਰ।
7. ਵਚਨ ਬਦਲੇ ਤੇ ਲਿੰਗ ਬਦਲੇ।
8. ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ।
9. ਸ਼ਬਦਾਂ / ਵਾਕਾਂ ਨੂੰ ਸੁੱਧ ਕਰਕੇ ਲਿਖੋ।
10. ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਸੁੱਧ ਰੂਪ।
11. ਅੰਕਾਂ, ਮਹੀਨੇ, ਦਿਨਾਂ ਦਾ ਸੁੱਧ ਪੰਜਾਬੀ ਰੂਪ।
12. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।
13. ਪੰਜਾਬ ਦੇ ਇਤਿਹਾਸ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।
14. ਪੰਜਾਬ ਦੇ ਸਭਿਆਚਾਰ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।

Annexure-2

Part B- Section (I)

Sr. No.	Indicative Contents of Syllabus	Weightage (Approx.)
1	General Knowledge and Current affairs of National and International importance including: (i) Political issues, (ii) Environment issues, (iii) Current Affairs, (iv) Science and Technology, (v) Economic issues, (vi) Geography (vii) History of India with special reference to Indian Freedom Struggle Movement, (viii) Sports, (ix) Cinema and Literature.	10
2	Punjab History and Culture:- <i>Physical features of Punjab and its ancient history. Social, religious and economic life in Punjab. Development of Language & literature and Arts in Punjab, Social and culture of Punjab during Afgan/Mughal Rule, Bhakti Movement, Sufism, Teachings/History of Sikh Gurus and Saints in Punjab. Adi Granth, Sikh Rulers, Freedom movements of Punjab.</i>	5
3	Logical Reasoning & Mental Ability: (i) Logical reasoning, analytical and mental ability.(05 Marks) (ii) Basic numerical skills, numbers, magnitudes, percentage, numerical relation appreciation. (03 Marks) (iii) Data analysis, Graphic presentation charts, tables, spreadsheets. (02 Marks)	10
4	English:- <i>Basic Grammar, Subject and Verb, Adjectives and Adverbs, Synonyms, Antonyms, One Word Substitution, Fill in the Blanks, Correction in Sentences, Idioms and their meanings, Spell Checks, Adjectives, Articles, Prepositions, Direct and Indirect Speech, Active and Passive Voice, Correction in Sentences, etc.</i>	5
5.	ਪੰਜਾਬੀ:- ਸੁੱਧ-ਅਸੁੱਧ, ਸ਼ਬਦਜੋੜ, ਅਗੇਤਰ ਅਤੇ ਪਿਛੇਤਰ, ਸਮਾਨਾਰਥਕ/ਵਿਰੋਧੀਸ਼ਬਦ, ਨਾਂਵ, ਪੜਨਾਂਵ ਅਤੇ ਕਿਰਿਆ ਦੀਆਂ ਕਿਸਮਾਂ ਤੇ ਸਹੀ ਵਰਤੋਂ, ਲਿੰਗ ਅਤੇ ਵਚਨ, ਪੰਜਾਬੀ ਅਖਾਣ ਤੇ ਮੁਹਾਵਰੇ, ਅੰਗਰੇਜੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਅਤੇ ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ ਆਦਿ।	5
6	Information Technology/Computer:- <i>Basics of computers, Network & Internet, Use of office productivity tools Word, Excel, Spreadsheet & PowerPoint.</i>	5
	Maximum Marks	40

Syllabus For Plumber Trade

1. Safety and general precautions required for Trade.
2. Safety Signs, Preventive measures for electrical accidents, Type & uses of fire extinguishers.
3. Safe use of tools and equipment.
4. First aid methods.
5. Plumber's common hand tools- name, description, material and uses.
6. General tools- description, name, type, material, specifications and uses e.g. Holding devices, hammers, cold chisels, files, drilling machines, cutting tools, grinders, locking and fastening tools etc.
7. Description of simple fitting operations.
8. Description and types of different types of pipes- G.I., C.I., D.I., PVC/CPVC, PPR, and HDPE. Metric specification of various pipes.
9. Description of different types of pipe fitting- GI, CI, DI, PVC/CPV PPR and HDPE.
10. Description of Thread cutting operations external and Internal thread cutting (dieing and tapping). Standard pipe threads- various types and description.
11. Die and Taps- Description, types, specifications material and uses.
12. Methods of Gas Welding, Soldering and brazing.
13. Types of solders, fluxes used - properties, composition and uses.
14. Description of Mason's Hand tools, specification and uses.
15. Common Brick joints.
16. Preparation of cement mortars with various materials of varying composition .
17. Scaffolding and plastering.
18. Define PCC and RCC and Its proportion.
19. Methods of pipe bending, Hot and cold, processes.
20. Plumbing symbols, pipe line and connection symbols.
21. Pipe fittings-methods of joining and their uses and precautions to be taken while fixing.
22. Hard water & soft water. Temporary hardness & Permanent hardness

23. Impurities of water- organic and inorganic, water purification stages and methods, contamination of water in a well.
24. Static water pressure and measurement of pressure.
25. Expansions of water on freezing and heating.
26. Bernoulli's principles, pascal's law.
27. Description and uses of hummed pipes of different sizes.
28. Methods of laying out pipes, alignment and joining, description of various pipe joints,- straight branch, Taft and blow, Expansion joints.
29. Methods employed for bending, joining and fixing pvc pipes.
30. Joining material for water and gas pipes.
31. Methods of bending galvanized and other heavy pipes.
32. Description, types, material & uses of various types of traps.
33. Layout of drainage system, method of testing drainage lines.
34. Description of locks and valves, their types material and specifications.
35. Description of different types of diverts - two way and three way.
36. Sensor system for urinals and wash basin.
37. Rain water harvesting'
38. Installation of sanitary fittings, inspection and testing of water supply system.
39. Description of sanitary fittings, inspection and testing of water supply system.
40. Description and fixing of solar water system.
41. Preparation of bill of quantity.
42. Preparation of estimation.