

NOTICE

(No. FED-02)

Ref. Advt. No. 03/2019

KOLKATA PORT TRUST HALDIA DOCK COMPLEX

(Jawahar Tower Complex, Haldia Township,
Purba Medinipur, West Bengal, Pin – 721607)

Written Test for selection to the post of Fire Engine Driver cum Pump Operator (on contract) under Administration Division, Haldia Dock Complex

- Written Test Venue** : Training Institute,
1st Floor, Operational Building,
Chiranjibpur, Haldia Dock Complex,
P.O. – Haldia
Dist. – Purba Medinipur
Pin – 721604, West Bengal.
- Date of Test** : 14/02/2020
- Reporting Time** : 10.30 hrs.
- Methodology of Written Test** : Written Test will comprise of 50 marks (GK 05 marks, English Language 05 marks, Numerical Ability 10 marks, logical reasoning 10 marks and subject content 20 marks) and pass marks being 25. However, management reserves the right to change/modify the selection methodology.
- Syllabus for the aspirants** : Refer to ‘**Annexure-I**’
- Model Question Paper with Answer:** Refer to ‘**Annexure-II**’
- General Instructions to the candidates** :
- ❖ Call letter for Written Test have been issued to the shortlisted candidates, who have qualified in the trade test, both by speed posts and also by e-mail. If the candidate does not receive call letter by post, he may also take a print out of the e-mail (soft copy) of the call letter.
 - ❖ The candidate must bring the call letter and also a set of all relevant certificates / testimonials in support of his eligibility (both original and photo copy) along with him at the time of appearing for the written test. No candidate will be permitted to enter the examination centre without the call letter.
 - ❖ Candidate must carry at least one photo bearing **IDENTITY PROOF** in original and a copy of the same, viz. Passport, Aadhaar Card, Driving License, Voter Card, Pan Card, Identity Card issued by Govt. Organisation, to the examination centre, **failing which, HE MAY NOT BE ALLOWED TO APPEAR FOR THE WRITTEN TEST.**
 - ❖ The candidate should reach the test centre/venue at the reporting time. Late comers will not be permitted to appear in the test. **They should bring 2 good quality BLACK/BLUE ball point pen for answering the test questions. Use of Pencils is strictly prohibited for answering questions.**
 - ❖ The call letter alongwith affixed passport size photograph will be collected before the commencement of written test and therefore the candidate is advised to keep one photocopy of the call letter for his own reference.

- ❖ Candidature for the test is **provisional** and subject to fulfilling all the eligibility conditions as indicated in the advertisement. Receipt of call letter by the candidate is **not** to be construed as acceptance of the candidate's eligibility for selection. If, at any stage, it is found that the candidate is ineligible for written test or at any subsequent stage, his candidature will be rejected.
- ❖ Candidates are not allowed to carry any papers, notes, books, calculators, pagers or mobile phones, smart watch or other electronic gadgets etc., in the examination hall. Any candidate found using or in possession of such unauthorised material or indulging in copying or adopting unfair means, is liable to be summarily disqualified.
- ❖ Blank papers for rough work will be provided at the examination hall to the candidates.
- ❖ Request for change of venue will not be entertained under any circumstances.

Annexure – I

PRESCRIBED SYLLABUS FOR SELECTION OF FIRE ENGINE DRIVER (ON CONTRACT)

Sl. No.	Subject	Sl. No.	Subject
BASIC KNOWLEDGE		APPLIED KNOWLEDGE	
1.	Chemistry of Combustion	1.	Pumps and Primers
2.	Hose	2.	Foam and Foam Equipment
3.	Hose Fittings	3.	Fixed Fire Fighting Installations
4.	Fire Extinguisher	4.	Sprinklers
5.	Rural Fires	5.	Water Relay
6.	Ladders	6.	Hydraulics and Water Problems
7.	Small Gears	7.	Special Appliance
8.	Knots and Lines	8.	Breathing Apparatus
9.	Ropes and Lines	9.	Practical of Firemanship
10.	Water Tender	10.	Electricity
11.	Building Construction	11.	Special Services
12.	Salvage	12.	Disaster Management
13.	Water Supply and Hydrants	13.	Gas and Oil Fires
14.	Fire Prevention	14.	Fire at high rise buildings
GENERAL			
1.	Fire Service Organization		
2.	Discipline		
3.	Firemen Staff Duties		
4.	Watch Room Procedure		
5.	First Aid		
6.	Tips on Fire Fighting and Evacuation		
7.	Knowledge Gaining Methods through Computers, Internet		
8.	Communication skills		
9.	Fire Service Manual		

Model Questions for Written Test for Selection of Fire Engine Driver (on contract)

[For every correct answer (+ 4 marks) and for every incorrect answer (-1 mark)]

Choose the correct option of the following:

- 1) For fighting fire involving liquid whose specific gravity is less than 1, we should use**
 - a) Water
 - b) Foam
 - c) Carbon dioxide gas
 - d) Either (b) or (c)

- 2) For fighting class A type of fire, the appropriate extinguishing medium should be**
 - a) Foam
 - b) Water
 - c) Dry Chemical Powder
 - d) All the above

- 3) The correct description of fire is that**
 - a) It is basically a physical phenomenon
 - b) It is a curse of God
 - c) It is a chemical reaction
 - d) None of the above

- 4) The classification of Petroleum Products is done on the basis of**
 - a) Fire point
 - b) Flash point
 - c) Ignition point
 - d) None of the above

- 5) In a triangle of fire , the sides represent as**
 - a) Combustible material, Oxygen and required Heat
 - b) Combustible material, Hydrogen and required temperature
 - c) Flame, Smoke and Heat
 - d) None of the above

- 6) While fighting metal fire, we should not use water because**
 - a) Water does not cool the burning metal
 - b) Water reacts with the burning metal and produces hydrogen gas
 - c) Water reacts with the burning metal and produces oxygen gas
 - d) None of the above

- 7) Which one of the following is not a cause of damage of delivery hoses**
 - a) Drying
 - b) Abrasion
 - c) Formation of Rubber Acid
 - d) Mildew

- 8) While rescuing a casualty from a considerable height, the rescuer should use
- Bowline knot
 - Rolling hitch knot
 - Running Bowline knot
 - Chair knot
- 9) The shelf-life of fire tender as per recommendation of Standing Fire Advisory Committee(SFAC), Govt. of India is
- 5 years
 - 10 years
 - 12 years
 - 15 years
- 10) What type of fire pumps are mostly used in fire service
- Positive displacement pump
 - Rotary pump
 - Vertical turbine pump
 - Centrifugal pump
- 11) Which is the most efficient type of primer for priming a fire fighting pump
- Reciprocating primer
 - Exhaust ejector primer
 - Rotary primer
 - None of the above
- 12) The full form of A.F.F.F
- Acquired Fire Fighting Foam
 - Aqueous Fire Fighting Foam
 - Aqueous Film Forming Foam
 - Appropriate Fire Fighting Foam
- 13) In fixed foam installation, the role of inline balanced proportionator is
- To ensure flow of Foam chemical to mix with the water stream
 - To ensure flow of fixed percentage of Foam chemical to mix with the water stream
 - Not to allow flow of Foam chemical back into the foam tank
 - None of the above
- 14) The blowing of warning whistle of Breathing Apparatus set indicates that
- The wearer of BA is safe to move further
 - The BA cylinder has become empty
 - The BA cylinder is going to burst
 - The BA cylinder is going to become empty within few minutes

15) Among the following which is not a total flooding system

- a) Water Sprinkler system
- b) CO₂ system
- c) Hydrant system
- d) FM 200 system

16) The fire involving fuel is extinguished by foam due to

- a) Interception of the radiant heat from the flames preventing it from reaching the fuel surface and evaporating further fuel
- b) Formation of a sealing blanket over the fuel surface to prevent vapours from escaping
- c) Cooling of the fuel
- d) All the above

17) The limitation of CO₂ as an extinguishing agent is

- a) It excludes the Oxygen present in the fire
- b) It does not come in contact with the burning material
- c) It has low cooling capacity
- d) None of the above

18) The jockey pump is used in the fire fighting system

- a) To supply water as and when required
- b) To maintain designed water pressure of the system
- c) To act as stand by fire pump
- d) None of the above

19) In case of fire in high rise building, one

- a) Should not use the staircase for evacuation
- b) Should not use the lift for evacuation
- c) Should wait for fire personnel for evacuation
- d) None of the above

20) The efficiency of an engine or a motor fire pump is

- a) $\frac{\text{Output}}{\text{Input}} \times 100$
- b) $\frac{\text{Input}}{\text{Output}} \times 100$
- c) $\frac{\text{Output} \times \text{Input}}{100}$
- d) None of the above

- 21) The HALON number 1211 stands for
- Bromo – trifluoro – methane
 - Bromo-dichloro-fluoro-methane
 - Bromo-chloro-difluoro-methane
 - None of the above
- 22) Cryogenic gases are liquefied gases which exist in their containers at
- Extremely low temperature, slightly above their boils points at N.T.P
 - Extremely high temperature, slightly above their boils points at N.T.P
 - Extremely high temperature at N.T.P
 - None of the above
- 23) The power developed by an engine is referred to as the Brake Horse Power which is
- $\frac{W.H.P}{\text{Efficiency}} \times 100$
 - $\frac{\text{Efficiency}}{W.H.P} \times 100$
 - $\frac{\text{Efficiency}}{W.H.P} \times 100$
 - None of these
- 24) Which of the following is a cause of priming failure of fire pump
- The priming lever is kept open
 - The suction strainer is not submerged properly
 - The mechanical seal or gland packing is not properly working
 - All the above.
- 25) If an incandescent lamp of 200 ohm resistance takes a current of 1.25 amp, what voltage is required to work it ?
- 200 volt
 - 220 volt
 - 230 volt
 - 250 volt
- 26) The breadth of a street between two houses A and B is 10m. A fireman operates a branch 4 bar pressure from the top of the house A, making an angle of depression of 45° , striking the jet at the top of the house B, the height of the house B is 15m. Considering 0.55 bar loss of pressure due to friction in hose pipe, the required pressure at the pump should be
- 5.55 bar
 - 6.45 bar
 - 8.5 bar
 - 7.0 bar

Answers of Model Questions

Question No.	Answer	Question No	Answer
1	b	20	a
2	b	21	c
3	c	22	a
4	b	23	a
5	a	24	d
6	b	25	d
7	a	26	d
8	d		
9	b		
10	d		
11	a		
12	c		
13	b		
14	d		
15	c		
16	d		
17	c		
18	b		
19	b		