

**Question Booklet & Answer Key
for the Recruitment Test of
Assistant Operator Boiler House
held on 11.8.2013**



English Version

1. 'ਮਲਵਈ' ਕੀ ਹੈ:
(A) ਉਪ-ਭਾਸ਼ਾ (B) ਭਾਸ਼ਾ (C) ਇਲਾਕਾ (D) ਵਿਆਕਰਣ
2. ਉਹ ਦਿਨ ਡੁੱਬਾ-----ਅਖਾਣ ਪੂਰਾ ਕਰੋ :
(A) ਤਾਂ ਮੋਹਲਿਆਂ ਦਾ ਕੀ ਡਰ (B) ਵਧਾ ਲੀਆਂ ਕਿਤੇ
(C) ਕੋਈ ਬੁੱਝੇ (D) ਜਦ ਘੋੜੀ ਚੜ੍ਹਿਆ ਕੁੱਬਾ
3. 'ਵਾਲ-ਵਾਲ ਬਚਣਾ' ਮੁਹਾਵਰੇ ਦਾ ਕੀ ਅਰਥ ਹੈ:
(A) ਮੌਤ ਦੇ ਮੂੰਹੋਂ ਬਚਣਾ (B) ਗੰਜੀ ਹੋ ਜਾਣਾ (C) ਵਾਲ ਪੁੱਟਣੇ (D) ਵਾਲ ਬੱਚ ਜਾਣੇ
4. ਨਾਂਵ ਕਿੰਨੀ ਪ੍ਰਕਾਰ ਦੇ ਹੁੰਦੇ ਹਨ:
(A) ਛੇ (B) ਪੰਜ (C) ਸੱਤ (D) ਅੱਠ
5. ਸ਼ੁੱਧ ਸ਼ਬਦ-ਜੋੜ ਚੁਣੋ:
(A) ਸ਼ੇਹੀਰ (B) ਸ਼ਹੈਰ (C) ਸ਼ਹਿਰ (D) ਸ਼ਿਹਰ
6. ਸ਼ੁੱਧ ਮੁਹਾਵਰਾ ਚੁਣੋ :
(A) ਸਾਹ ਰੁਕਣਾ (B) ਸਾਹ ਸੁੱਕਣਾ (C) ਸਾਹ ਮੁੱਕਣਾ (D) ਸਾਹ ਲੈਣਾ
7. ਵਰਤਮਾਨ ਕਾਲ ਚੁਣੋ:
(A) ਹੈ, ਹਨ (B) ਸੀ, ਸਨ (C) ਗਾ, ਗੀ (D) ਦਾ, ਦੇ
8. ਕਿਰਿਆ ਦੀਆਂ ਕਿੰਨੀਆਂ ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ ਹਨ:
(A) ਚਾਰ (B) ਤਿੰਨ (C) ਦੋ (D) ਪੰਜ
9. ਹੇਠ ਲਿਖੇ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ ਇਕ ਵਚਨ ਚੁਣੋ:
(A) ਫਲ (B) ਫਰਨੀਚਰ (C) ਘੋੜਾ (D) ਮੁੰਡੇ
10. 'ਘੋੜਾ' ਦਾ ਇਸਤਰੀ ਲਿੰਗ ਬਣਾਉ:
(A) ਖੱਚਰ (B) ਘੋੜੀ (C) ਖਚਰੀ (D) ਘੋੜੂ

Directions(Q.No. 11- 15):- Out of the given four options, choose the correct preposition to be filled in the gaps:-

11. His distrust __ valueless politics is well known.
(A) of (B) with (C) at (D) from
12. His actions are not in conformity__ the rules.
(A) of (B) with (C) on (D) off
13. Sreesanth is now afraid __ his reckless conduct.
(A) with (B) of (C) for (D) at
14. Shyam tried utmost to desist Ram___ participating in politics.
(A) at (B) of (C) with (D) from
15. It was quite difficult to elicit the desired information__ him.
(A) from (B) of (C) with (D) for

Directions(Q. No.16-18):- Out of the four given options, choose the correct opposite of the given word:-

16. Militancy
(A) Military life (B) Non-violence (C) Combativeness (D) Offence

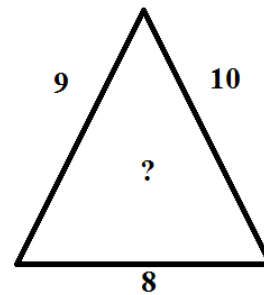
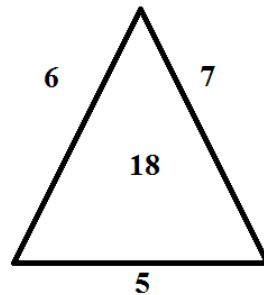
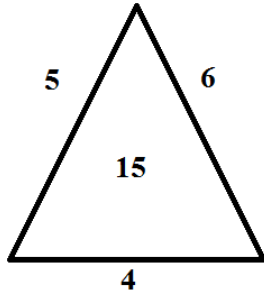
17. Obvious
(A) Honest (B) Doubtful (C) Mighty (D) Weak
18. Maltreat
(A) Cure (B) Symbolize (C) Beat (D) Care

Directions(Q. No.19-20):- Out of the four given options, choose the correct expression that explains the meaning of the given idiom:-

19. To take someone to task
(A) to be hateful (B) to be disobedient (C) to be docile (D) to reprove someone
20. To have an axe to grind
(A) to be ruthless in the execution of plans (B) to have a personal interest in the matter
(C) to be full of violence and hatred (D) to be selfless in the performance of actions
21. What is the capital of Punjab?
A) Amritsar B) Ludhiana C) Chandigarh D) Bhatinda
22. In which district Devi Talab is situated?
A) Jalandhar B) Amritsar C) Ludhiana D) Frozepur
23. How many districts are there in Punjab?
A) 18 B) 20 C) 22 D) 24
24. High Court of Punjab is located at
A) Bhatinda B) Muktsar C) Ludhiana D) Chandigarh
25. Present Punjab came into existence in
A) 1947 B) 1966 C) 1975 D) 1991
26. Who founded Khalsa Panth?
A) Guru Amar Das B) Guru Ram Das C) Guru Nanak Dev D) Guru Gobind Singh
27. Which book has the preaching of Sikh Gurus?
A) Guru Granth Sahib B) Guru Bani Sahib
C) Guru Pravachan Sahib D) Guru Updesh Sahib
28. Which is famous female dance of Punjab?
A) Bhangra B) Gidha C) Garba D) Gargaur
29. 'Jaago' is related with
A) marriage B) death C) birth of a boy D) birth of a girl
30. Name the first lady IPS officer from Punjab?
A) Kiran Sehajpal B) Kiran Bedi C) Kiran Chawla D) Kiran Grewal
31. VAT is imposed
A) directly on consumer B) on final stage of production
C) on second stage of production D) on all stages between production and final sale
32. Which bank in India performs the functions of Central Bank of the country?
A) State Bank of India B) Punjab National Bank
C) Reserve Bank of India D) Central Bank of India
33. When did India become Republic?
A) 15th August 1947 B) 26th January 1950 C) 26th January 1948 D) 26th November 1947
34. Kedarnath Temple which was recently hit by floods is in
A) Utrakhnad B) UP C) MP D) none of these

35. Name the former President of Pakistan on whom life time ban has been imposed from contesting elections.
A) Nawaz Sharif B) Asif Ali Zardari C) Raja Parvez Ashraf D) Parvez Musharraf
36. Which is world's highest mountain peak?
A) K-2, Karakoram B) Kanchenjunga, Himalayas
C) Mount Everest, Himalayas D) Dhaulagiri I, Himalayas
37. Where is 'Gate way of India'?
A) Delhi B) Agra C) Fatehpur Sikri D) Mumbai
38. 'Richter Scale' is used to measure _____
A) strength of Tsunami waves B) intensity of earthquake
C) density of salt in sea water D) flow of electric current
39. What is the full name of WTO?
A) World Trade Organization B) World Travel Organization
C) World Transport Organization D) Wider Trade Organization
40. The instrument with which we can see faraway objects
A) telescope B) periscope C) microscope D) gyroscope
41. Complete the series
1, 4, 9, 16, 25, ?
A) 34 B) 49 C) 36 D) 33
42. Replace the question mark from options given below
Maharashtra : Mumbai :: Punjab : ?
A) Delhi B) Chandigarh C) Amritsar D) Patiala
43. Find the odd one
1. January 2. March 3. April 4. July 5. August
A) April B) July C) March D) August
44. In a certain code, the word TEACHER is written as VGCEJGT. How is CHILDREN written in that code?
A) EJKNEGTP B) EGKNFITP C) EJKNFGTO D) EJKNFTGP
45. Pointing towards a photograph of a woman, Ram told Seema that she is our mother. How is Seema related to Ram?
A) mother B) sister C) cousin D) wife
46. Ravi and Kunal are good in Hockey and Volleyball. Sachin and Ravi are good in Hockey and Baseball. Gaurav and Kunal are good in Cricket and Football. Who is good in Hockey, Cricket and Volleyball?
A) Ravi B) Sachin C) Gaurav D) Kunal
47. Rohan started for his friends house which is 5 km away on the same road. After covering a distance of 2 km, due to some repair work, he had to turn right and go to a parallel road which is 2 km away from first road. He covered remaining distance of 3 km on that road. How many kms Rohan had to cover for reaching his friend's house?
A) 5 km B) 7 km C) 9 km D) 11 km
48. If the following five words are arranged in alphabetical order, which word will come in the middle?
1. draw 2. Read 3. Play 4. Back 5. Want
A) play B) read C) back D) draw
49. In the following series, find the sum of three numbers which are fifth, seventh and third from last.
3 5 9 5 4 5 5 3 5 8 4 5 6 7 3 5 7 5 5 4 5 2 3 5 1 0
A) 12 B) 18 C) 16 D) 14

50. Which one of following numbers can replace question mark below?



- A) 21 B) 27 C) 24 D) 30

51. A rectangle and a square are equal in area. The rectangle is 9 ft in length and 4 ft in breadth. What is a side of square?

- A) 8 ft B) 9 ft C) 6 ft D) 4 ft

52. $\frac{2}{3} - \frac{2}{3} \times \frac{2}{3} + \frac{2}{3} = ?$

- A) $\frac{8}{9}$ B) $\frac{2}{3}$ C) $\frac{3}{9}$ D) $\frac{4}{9}$

53. The L.C.M. of 24, 36 and 40 is

- A) 120 B) 240 C) 360 D) 480

54. $\frac{6250}{\sqrt{?}} = 625$

- A) 10 B) 100 C) 110 D) 625

55. Find the average of all numbers between 6 and 34 which are divisible by 5

- A) 15 B) 25 C) 30 D) 20

56. The difference between $\frac{2}{8}th$ and $\frac{2}{7}th$ of a number is 50, then the number would be

- A) 500 B) 520 C) 540 D) 560

57. $(180\% \text{ of } ?) \div 2 = 504$

- A) 400 B) 480 C) 560 D) 280

58. By selling a watch for ₹ 1440, a man loses 10%. At what price should he sell it to gain 5%?

- A) ₹ 1500 B) ₹ 1680 C) ₹ 1760 D) ₹ 1800

59. A sum of money amounts ₹ 5200 in 5 years and to ₹ 5680 in 7 years. The principal is

- A) ₹ 4000 B) ₹ 5000 C) ₹ 4500 D) ₹ 4800

60. A can finish a work in 8 hours while B alone can do it in 12 hours. Both A and B working together will finish it in

- A) 10 hours B) 4 hours C) $5\frac{1}{4}$ hours D) $4\frac{4}{5}$ hours

61. Which of the following is a water tube boiler?

- (a) Lanchashire boiler (b) Babcock and Wilcox boiler
(c) Locomotive boiler (d) Cochran boiler

62. A device used to heat feed water by utilizing the heat in the exhaust flue gases before leaving through the chimney, is known as

- (a) super heater (b) economizer (c) re-heater (d) none of the above

63. Latent heat of fusion is the amount of heat required for a substance to change from

- (a) gas to a liquid (b) liquid to a gas (c) solid to a gas (d) solid to a liquid

64. The boiler operator should watch at all times for all of the following except
 (a) leaks in steam, water, and fuel connections (b) proper fuel air ration
 (c) incoming water quality (d) operating pressures and temperatures
65. Boilers that have hot gases circulating through tubes surrounded by water are called
 (a) fire tube boilers (b) high pressure boilers
 (c) low pressure boilers (d) water tube boilers
66. Boiler furnace explosions are likely to occur for all of the following reasons except
 (a) a weak pilot flame (b) low fuel pressure
 (c) insufficient combustion air (d) insufficient purge of the furnace before startup
67. The most common cause of feeder or low-water fuel cut-off trouble is the operator's failure to observe the
 (a) blow-down instructions (b) fuel calibration sequence
 (c) water treatment limitations (d) low-water control calibration
68. The device that ensures that steam pressure will not force the boiler water back into the return line is a
 (a) condensate trap (b) direct feed pump (c) Hartford loop (d) pressure regulator
69. The steam boiler component used to lower the concentration of dissolved impurities in the boiler water is the
 (a) blow-off cock (b) de-concentrator
 (c) feed connection (d) sediment reduction valve
70. The minimum capacity of any closed vessel which generates steam under Indian Boilers Regulation Act is
 (a) 2.275 liters (b) 22.75 kilo liters (c) 227.5 liters (d) 22.75 liters
71. The type of firing used for a pulverized coal fired boiler is
 (a) overfiring (b) tangential firing
 (c) vertical firing (d) mixed firing for effective heat transfer
72. Super heating of steam is done at
 (a) constant volume (b) constant temperature
 (c) constant pressure (d) none of the above
73. The critical pressure at which the latent heat of vaporization is zero is
 (a) 225.65 Kgf/cm² (b) 273 Kgf/cm² (c) 100 Kgf/cm² (d) 1 Kgf/cm²
74. Separating and throttling calorimeter is used for determining
 (a) calorific value of fuel (b) dryness fraction of steam
 (c) heat of water (d) none of the above
75. Cochran boiler is a
 (a) horizontal fire-tube boiler (b) horizontal water-tube boiler
 (c) vertical water-tube boiler (d) vertical fire tube boiler
76. Which of the following is a fire tube boiler?
 (a) locomotive boiler (b) Babcock and Wilcox boiler
 (c) Stirling boiler (d) all of the above
77. Which of the following coals has the highest calorific value?
 (a) peat (b) anthracite coal (c) lignite (d) bituminous coal
78. A boiler in India should conform to safety regulations of
 (a) DIN (b) BS (c) ASTM (d) IBR

79. A fusible plug is fitted in small boilers in order to
 (a) avoid excessive build up of pressure
 (b) avoid explosion
 (c) extinguish fire if water level in the boiler falls below alarming limit
 (d) control steam dome
80. Size of boiler tubes is specified by
 (a) mean diameter and thickness
 (b) outside diameter and thickness
 (c) outside diameter and inside diameter
 (d) inside diameter and thickness
81. A safety valve in a locomotive starts leaking. The leaking medium will be
 (a) super heated steam (b) wet steam (c) dry steam (d) water
82. The safety valve at superheater as compared to drum safety valve setting is set at
 (a) higher value (b) lower value (c) same value (d) any value
83. Which device is used in thermal power plants to reduce level of pollution?
 (a) induced draft fan (b) smoke meter (c) precipitator (d) chimney
84. The capacity of induced draft fan compared to forced draft fan in a boiler is
 (a) same (b) more
 (c) less (d) less or more depending on size of boiler
85. The balanced draft furnace is one using
 (a) induced draft fan and forced draft fan (b) induced draft fan and chimney
 (c) forced draft fan and chimney (d) any one of the above
86. Maximum energy loss in a boiler occurs due to
 (a) unburnt carbon in ash (b) incomplete combustion
 (c) ash content (d) flue gases
87. De aeration of feed water is carried out because it reduces
 (a) cavitation of boiler feed pumps (b) corrosion caused by oxygen
 (c) heat transfer coefficient (d) pH value of water
88. The recommended TDS level in boiler drum, that can be safely maintained for the water tube boiler is
 (a) 3000 – 3500 ppm (b) 2000 ppm (c) 5000 ppm (d) none of the above
89. Demineralisation of water is the process to remove
 (a) chlorine (b) carbon dioxide (c) dissolved salts (d) dissolved oxygen
90. What is the objective of providing baffles in between water tubes in a Babcock Wilcox boiler?
 (a) to regulate water flow
 (b) to regulate steam flow
 (c) to have a better contact of flue gases with water tubes
 (d) to prevent buckling of water tubes
91. Forced circulation of water takes place in
 (a) locomotive boiler (b) Babcock Wilcox boiler (c) Lamont boiler (d) Stirling boiler
92. Which of the following is a once through boiler?
 (a) Lancashire boiler (b) Benson boiler (c) Velcox boiler (d) Babcock Wilcox boiler
93. Which of the following equipment is a boiler accessory?
 (a) Stop valve (b) feed water pump (c) fusible plug (d) blow of cock
94. Which of the boiler equipment is a boiler mounting?
 (a) superheater (b) air pre heater (c) economizer (d) feed check valve

95. Which of the following is fitted on a boiler to improve the boiler efficiency?
(a) safety valve (b) steam trap (c) economizer (d) blow down cock
96. Which of the following is not a safety valve for the boiler?
(a) lever type (b) sliding valve (c) dead weight type (d) spring type
97. The greatest benefit of the dry method of laying up a boiler is
(a) it prevents freezing (b) it minimizes corrosion
(c) it minimizes oxidation (d) it eliminates off-season leaking
98. Generally, which type of fuel is used in boilers in food industry?
(a) Coal (b) diesel (c) husk (d) all of above
99. During storage, the heating value of coal
(a) increases (b) decreases
(c) remains constant (d) may increase or decrease depending upon the method of storage
100. The control used on gas- and oil-fired heating boilers to provide for proper sequencing of the combustion controls during startup and shutdown is the
(a) limit control (b) capacity control
(c) programming control (d) safety control

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Answer- Key

Code: 17

(Asstt. Operator Boiler House)

Q.	Ans.	Q.	Ans.	Q.	Ans.	Q.	Ans.
1	A	26	D	51	C	76	A
2	D	27	A	52	A	77	B
3	A	28	B	53	C	78	D
4	B	29	A	54	B	79	C
5	C	30	B	55	D	80	B
6	B	31	D	56	D	81	A
7	A	32	C	57	C	82	B
8	C	33	B	58	B	83	C
9	C	34	A	59	A	84	B
10	B	35	D	60	D	85	A
11	A	36	C	61	B	86	D
12	B	37	D	62	B	87	B
13	B	38	B	63	D	88	A
14	D	39	A	64	C	89	C
15	A	40	A	65	A	90	C
16	B	41	C	66	B	91	B
17	B	42	B	67	A	92	B
18	D	43	A	68	C	93	B
19	D	44	D	69	A	94	D
20	B	45	B	70	D	95	C
21	C	46	D	71	B	96	B
22	A	47	C	72	C	97	A
23	C	48	A	73	A	98	C
24	D	49	D	74	B	99	B
25	B	50	B	75	D	100	C