

**Question Booklet and Answer-Key**  
**Recruitment Test of Asstt. Div. Fire**  
**Officer/ FSO, Local Govt. Punjab Held on**  
**29.3.2014.**

**Directions Q.1-4-** Choose the correct antonym, out of the four given choices, of the given word:-

1. Canny :-  
A) foolish                      B) permanent                      C) legal                      D) rude
2. Execrable :-  
A) weak                      B) admirable                      C) adamant                      D) cruel
3. Greenhorn :-  
A) flatterer                      B) stainless                      C) veteran                      D) undue
4. Narcissism:--  
A) cleverness                      B) arrogance                      C) cunning                      D) modesty

**Directions Q.No. 5-7 :-** Mark, out of the four choices, the correct meaning of the italicized idioms/phrases used in the following sentences :-

5. Sumedha appears to be *in a brown study*.  
A) in a reverie    B) quite pessimistic    C) fond of reading    D) fond of reading philosophy.
6. You should not *bow down in a house of Rimmon*.  
A) hurt others                      B) sacrifice your principles for the sake of conformity  
C) criticize others                      D) be indifferent to others.
7. Ramesh advised us to *go for the jugular* :-  
A) be calm                      B) be smart                      C) be aggressive                      D) be active

**Directions Q. No.8-10:-** Choose the correct preposition, out of the four given choices, to be filled in the gaps of the following sentences :-

8. The novelist has alluded \_\_\_\_\_ the First World War in this novel.  
A) from                      B) of                      C) with                      D) to
9. Harry abstained \_\_\_\_\_ non-vegetarian food.  
A) from                      B) by                      C) off                      D) on
10. There seems to be no respite \_\_\_\_\_ the soaring inflation.  
A) out                      B) from                      C) for                      D) about
11. The metal used in storage batteries is  
A) iron                      B) copper                      C) lead                      D) tin
12. Which of the following is essential for blood clotting?  
A) RBC                      B) WBC                      C) Blood platelets                      D) Lymph
13. Thermos flask keeps a liquid hot because  
A) It has double walls.  
B) It has silver coated walls  
C) Air between the double walls is removed  
D) Heat losses by conduction and radiation are largely prevented
14. Laparoscopy is connected with  
A) radars                      B) Science of tissues  
C) study of laser beams                      D) gynaecological operation
15. Which of the following vitamins is considered to be a hormone?  
A) A                      B) B                      C) C                      D) D
16. Sikh Guru Arjun Dev was killed during the reign of  
A) Humayun                      B) Akbar                      C) Jahangir                      D) Shah Jahan
17. The first Europeans to come to India were  
A) British                      B) Dutch                      C) French                      D) Portuguese
18. The last Governor General of India was  
A) Lord Dalhousie    B) Lord Mountbatten    C) C. Rajagopalachari    D) Lord Canning

19. Who among the following was called as 'Father of Indian Renaissance'?
- A) B.G. Tilak                      B) Gopal Krishna Gokhale  
C) Lala Lajpat Rai                D) Raja Ram Mohan Roy
20. The design of the National Flag was adopted by the Constituent Assembly of India in
- A) July, 1948              B) July, 1950              C) July, 1947              D) August, 1950
21. The Period of Twelveth Five Year Plan is
- A) 2007-2012              B) 2012-2017              C) 2009-2014              D) 2010-2015
22. In India, The Black Revolution is associated with self dependence in the production of
- A) mustard seeds                      B) crude petroleum  
C) black box                              D) coffee
23. Capital gains tax is a part of
- A) Wealth Tax                              B) Gift Tax  
C) Estate Tax                              D) Income Tax
24. Special Drawing Rights (SDRs) relate to
- A) the World Bank                      B) the Reserve Bank of India  
C) the World Trade Organization      D) the International Monetary Fund
25. In which of the following city India's first all-women bank, Bharatiya Mahila Bank was inaugurated by the Prime Minister, Dr. Manmohan Singh and Mrs. Sonia Gandhi on November 19, 2013?
- A) Delhi                      B) Gurgaon                      C) Bangalore                      D) Mumbai
26. South Africa's first black President and anti-apartheid icon Nelson Mandela died at the age of 95 on December 5, 2013. Which of the following dates has been fixed as Mandela Day?
- A) July 17                      B) July 16                      C) July 19                      D) July 18
27. Which of the following is the theme of International Day for Preservation of the Ozone Layer 2013?
- A) Save Earth                              B) Ozone: Lets Save It  
C) A Healthy Atmosphere, The Future We Want      D) Ozone Safety Future Safety
28. Which of the following days is declared as 'International Day of Sports for Development and Peace' by United Nations in August, 2013?
- A) July 12                      B) February 6                      C) April 6                      D) June 23
29. 101th Indian Science Congress was held at :
- A) Bangalore                      B) New Delhi                      C) Hyderabad                      D) Jammu
30. Which of the following Movies was given the 2014 Oscar Academy Award in the Best Picture Category:
- A) 12 Years a Slave      B) Dallas Buyers Club      C) Blue Jasmine      D) Gravity
31. 'Metal' is related to 'Conduction' in the same way as 'Plastic' is related to
- A) Petrochemicals      B) Industries                      C) Inflammation                      D) Insulation
32. Select the missing (?) word from given alternatives on the basis of the relationship between the words given on the left/right hand side of the sign ::  
Hill : Mountain :: ? : Pain
- A) Distress                      B) Discomfort                      C) Headache                      D) Fear
- Directions Q.No.33 & 34:** Three of the following pairs are alike in a certain way and hence form a group. Which one does not belong to the group?
33. A) DONE : NOED      B) WANT : NATW      C) WITH : TIHW      D) HAVE : AVEH
34. A) 5:9                      B) 7:11                      C) 13:17                      D) 29:31

35. If TEMPLE is coded as VHQURL, how would you code CHURCH?  
 A) EKYWIO      B) EKWIO      C) EKYWIN      D) EKYWJO
36. 'baw haw daw kaw' means 'Poachers killed some tigers', 'vaw gaw jaw haw' means 'Tigers are brave creatures', 'kaw tau maw vaw' means 'some watchman were brave' and 'maw jaw naw baw' means 'watchman are searching poachers'. Then what does 'kaw baw' means?  
 A) some watchman    B) brave tigers      C) some poachers    D) killed tigers

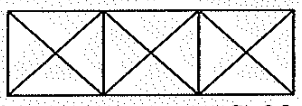
**Directions Q.No. 37 to 39:** Read the pattern of words/numbers and find the missing term from the given alternatives:

37. QAM, SEO, ?, WOS, YUV  
 A) UIN      B) UIP      C) UIQ      D) UIM
38. 824, 615, 406, ?  
 A) 756      B) 732      C) 734      D) 736
39. 2, ?, 3, 6, 5, 12, 7, 20, 11  
 A) 1      B) 2      C) 4      D) 3
40. A school bus goes 3 km north from the school and turns left. It goes 5 km further, takes a left turn and travels 8 km. It takes a left turn from there and goes 5 km further. Finally, it takes a left turn and goes 2 km. How much should the school bus travel and in which direction in order to reach the school?  
 A) 3 km South      B) 3 km North      C) 5 km West      D) 5 km North
41. 'A x B' means that A is the sister of B, 'A ÷ B' means that A is the daughter of B, 'A - B' means that A is the son of B. On the basis of this information, how is P related to S in the relationship P - Q x R ÷ S?  
 A) Brother      B) Son      C) Cousin      D) Daughter's son
42. Pointing to a lady in the photograph, "Seema said, "her son's father is the son-in-law of my mother". How is Seema related to that lady?  
 A) Sister      B) Mother      C) Cousin      D) Aunt
43. In the following series, some letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.  
 n - qn - nqt - tqqt - n - n - tqt  
 A) nnqtq      B) qtnqt      C) ttnqn      D) qqtnt

**Directions for QNo.44to46:** Read the following information to answer the questions based on it. Seven letters are arranged in a line as follows:

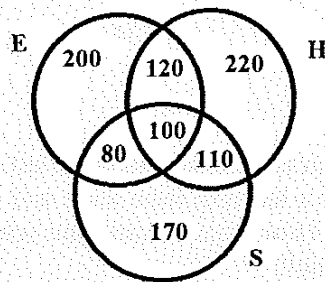
- (i) E and F have one letter between them.      (ii) G is to the right of A.  
 (iii) B is to the immediate left of F.      (iv) There is one letter between D and A.  
 (v) D is not G's neighbour.      (vi) G and F have two letters between them.

44. Which letter is second to the left of letter A?  
 A) C      B) B      C) D      D) E
45. Which letter will be exactly in the middle of the letter series so obtained?  
 A) D      B) A      C) E      D) None of these
46. Which pair of the letters is adjacent to the letter B?  
 A) A and C      B) G and E      C) E and F      D) C and A
47. How many triangles are there in the given figure?



- A) 28      B) 24      C) 25      D) 26

48. A person was asked to state his age in years. His reply was, 'Take my age three years hence multiply it by 3 and then subtract three times my age three years ago and you will know how old I am.' What was the age of the person?  
 A) 18 year      B) 20 year      C) 24 year      D) 32 year
49. The six faces of a cube are coloured black, brown, green, red, white and blue in the following ways:  
 (i) Red is opposite to black. (ii) Brown is adjacent to blue. (iii) Blue is adjacent to white. (iv) Red is at the bottom surface. (v) Green is between red and black.  
 Which colour is opposite to the Brown colour?  
 A) White      B) Red      C) Green      D) Blue
50. A result of a survey of 1000 persons with respect to their knowledge of Hindi (H), English (E) and Sanskrit (S) is given below:



- Find the number of persons who know at most two languages.  
 A) 410      B) 310      C) 900      D) none of above.
51. Which of the following best represents nonflaming or smoldering combustion?  
 (a) fire tetrahedron      (b) combustion pentagon  
 (c) fire triangle      (d) oxidation matrix
52. Which type of ignition occurs without any external flame or spark to ignite the fuel?  
 (a) auto combustion      (b) self ignition      (c) piloted ignition      (d) auto ignition
53. A particle is moving with a constant speed along a straight line path. A force is not required to  
 (a) Increase its speed      (b) Change the direction  
 (c) Decrease the momentum      (d) Keep it moving with uniform velocity
54. A push or a pull on an object is called  
 (a) Inertia      (b) Force      (c) Mechanical Equilibrium      (d) Equilibrium rule
55. At what temperature can steel members be anticipated to begin to fail?  
 (a) 726°C      (b) 800°C      (c) 900°C      (d) 1,000°C
56. The four common respiratory hazards found at the site of fire are oxygen deficiency, elevated temperatures, smoke and:  
 (a) wood dust.      (b) dirt particles.      (c) steam vapor.      (d) toxic atmospheres.
57. What gas is commonly associated with incomplete combustion?  
 (a) carbon monoxide      (b) carbon dioxide  
 (c) carbon tetrachloride      (d) carbon cyanide
58. Which of the following is a limitation of wearing a SCBA?  
 (a) fire size      (b) physical condition  
 (c) make of SCBA      (d) ambient temperature
59. Which of the following is not part of Dalton's atomic theory?  
 (a) Atoms of the same element can be different.  
 (b) All matter is composed of indivisible atoms.  
 (c) Compounds form when atoms combine in whole number ratios.  
 (d) A chemical reaction involves rearrangement of atoms.

60. Which of the following has the longest wavelength?  
 (a) X rays (b) microwaves (c) green light (d) UV light
61. What is the minimum allowed diameter for rope that is rated as general use life safety rope?  
 (a) 5/16 inches (b) 9/16 inches (c) 7/16 inches (d) 11/16 inches
62. Which knot is principally used to attach a rope to an object such as the handle of a pole?  
 (a) clove hitch (b) double hitch (c) figure eight (d) safety knot
63. What is the minimum number of firefighters for a search team?  
 (a) 1 (b) 2 (c) 3 (d) 4
64. A ventilation technique that uses wind and convection currents rather than fans and blowers is known as:  
 (a) normal ventilation (b) forced ventilation  
 (c) single ventilation (d) natural ventilation
65. The three methods of moving water within a system are direct pumping, gravity systems and  
 (a) combination systems (b) well systems  
 (c) overhead systems (d) wind systems
66. Controlling fire by interrupting the combustion reaction is known as  
 (a) flame reduction (b) steady state inhibition  
 (c) combustion interruption (d) chemical flame inhibition
67. A wall that is at the edge of some roofs that may require a firefighter to use a ladder to reach the roof is known as a  
 (a) pitch (b) cantilever (c) mansard (d) parapet
68. The different between a load-bearing and a nonload-bearing wall is that  
 (a) A load-bearing wall supports the weight of structural components.  
 (b) A non load-bearing wall supports the weight of structural components.  
 (c) A load-bearing wall always runs parallel to the outside walls of the building.  
 (d) A non load-bearing wall is only used in single family residential construction applications
69. The process of smothering extinguish a fire is  
 (a) inhibition of chemical reaction (b) removal of the fuel  
 (c) exclusion of the oxygen (d) cooling of the fuel
70. The firefighters not depend on fire extinguishers found in private homes because  
 (a) home extinguishers are not capable of extinguishing a fire  
 (b) privately owned extinguishers may be inoperative  
 (c) special training is required for home extinguishers  
 (d) home extinguishers are not rated for class A fires
71. The fire service rope are classified as  
 (a) life safety and utility (b) utility and search and rescue  
 (c) life safety and hoisting (d) search and miscellaneous
72. The most commonly added chemical to drinking water to kill bacteria and other organisms is  
 (a) magnesium (b) bromine (c) chlorine (d) iodine
73. The frequency to check the fire suppression control valves is  
 (a) daily (b) monthly (c) weekly (d) annually

74. The size of the fire hose indicates a  
(a) outside diameter of the hose (b) inside diameter of the hose  
(c) outside diameter of the male thread (d) inside diameter of the female thread
75. Which type of water stream is composed of finely divided particulars that are used for fire control  
(a) A solid stream (b) A fog stream (c) A straight stream (d) A broken stream
76. The minimum temperature at which a liquid produces enough vapor to form an ignitable mixture is known as  
(a) fire point (b) ignition point (c) flash point (d) vaporization temperature
77. The most common product of combustion encountered in structure fire is  
(a) carbon dioxide (b) ethane (c) carbon monoxide (d) nitrogen
78. Who has the primary role of supervising personnel in the fire department  
(a) Fire prevention inspector (b) Fire apparatus driver  
(c) Fire department officer (d) Fire service medic
79. The most common cause of firefighter fatalities are  
(a) strains (b) suffocation (c) burns (d) overexertion
80. A written plan that identifies and analyzes exposure to hazards is known as a  
(a) hazard reduction plan (b) risk management plan  
(c) hazard mitigation plan (d) wellness improvement plan
81. The difference between a SCBA and a supplied air respirator is that  
(a) The SCBA requires a supply line from another source of air  
(b) The supplied air respirator is certified for use in firefighting operations  
(c) The source of air for the supplied air respirator is not carried by the user  
(d) The air supply for the SCBA is supplied from the ambient atmosphere
82. The rate at which velocity is changing with time is called  
(a) Speed (b) Velocity (c) Acceleration (d) Free fall
83. In liquids or gases, the mode of heat transfer from one location to another is  
(a) Conduction (b) Convection (c) Radiation (d) Newton's law of cooling
84. Which of the following is most likely to lose electrons in an ionic compound?  
(a) oxygen (b) hydrogen (c) lead (d) carbon
85. Isomers are molecules with the same  
(a) kinds and number of atoms but a different arrangement of these atoms  
(b) number of electrons and protons but a different number of neutrons  
(c) net dipole but different atoms involved in the bond  
(d) molecular formula but a different overall charge
86. Which department program educates firefighters on how to protect themselves from personal injury?  
(a) operations program (b) driver program  
(c) safety program (d) maintenance program
87. The stage of fire at which all surfaces within a room reach their ignition temperature and ignite is known as  
(a) flashover (b) fireover (c) flameover (d) backdraft
88. A rapid and self-sustaining chemical process that yields heat and light is known as  
(a) oxidation (b) combustion (c) sublimation (d) entropy

89. The two basic types of smoke detectors/alarms are  
 (a) pneumatic rate-of-rise and thermoelectric  
 (b) rate-compensated and ionization  
 (c) thermoelectric and continuous line  
 (d) photoelectric and ionization
90. Telecommunicators should have the abilities to speak clearly and  
 (a) Read and understand written materials  
 (b) Create clear and understandable reports  
 (c) Follow written and verbal instructions  
 (d) All of the above
91. When alerting firefighters in a fire station in an emergency, dispatchers may use voice alarms, house bells or  
 (a) Radio tones with alert (b) Home electronic monitors  
 (c) Sirens (d) Whistles or air horns
92. When speaking on the loud speaker, it is important for the speaker to:  
 (a) Speak as fast as possible (b) Use a very strong vocal quality  
 (c) Use a wide variety of expression (d) Be concise and to the point
93. Which of the following containers is an example of non bulk packaging for hazardous materials  
 (a) Cryogenic liquid tank cars (b) Dry bulk cargo tanks  
 (c) Intermodal containers (d) Carboys
94. The four routes by which hazardous materials can enter the body and cause harm include inhalation, ingestion, contact and  
 (a) absorption (b) intoxication (c) oscillation (d) permutation
95. A rope is made of hemp or cotton is called  
 (a) rescue fiber rope (b) utility fiber rope  
 (c) natural fiber rope (d) synthetic fiber rope
96. In an emergency, how would you evacuate a handicapped person  
 (a) Leave him there (b) Take him to a designated stairways  
 (c) Let him wait for the fire department personnel (d) None of the above
97. Emergency power is required to operate all the following except  
 (a) fire and booster pumps  
 (b) alarm, communication and stair pressurization systems  
 (c) battery operated emergency lights  
 (d) elevators
98. What colour must fire alarm stations be painted?  
 (a) Red (b) Green (c) Yellow (d) Any colour
99. In the ball drip valve drips under normal conditions, it is an indication that  
 (a) The lower check valve is defective (b) The upper check valve is defective  
 (c) The ball float valve is defective (d) All of the above
100. In an automatic sprinkler system where one sprinkler has exceeded the set limit of temperature, how many sprinklers begin to spray water?  
 (a) All sprinklers on the floor (b) All sprinklers in the building  
 (c) Only that sprinkler which has exceeded its limit (d) None of above

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**KEY****Post: Asstt. Div. Fire Officer / FSO (29.03.2014, Morning Session)**

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