

**QUESTION BOOKLET AND ANSWER KEY**

**FOR RECRUITMENT TEST OF**

**DRAFTSMAN**

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English Version

1. ਮਾੜੀ ਕੀ ਹੈ:  
(A) ਭਾਸ਼ਾ (B) ਉਪ-ਭਾਸ਼ਾ (C) ਇਲਾਕਾ (D) ਸੂਬਾ
2. ਵਾਕ ਵਿਚ ਨਾਂਵ ਦੀ ਥਾਂ 'ਤੇ ਵਰਤੇ ਜਾਣ ਵਾਲੇ ਸ਼ਬਦ ਨੂੰ ਕੀ ਕਿਹਾ ਜਾਂਦਾ ਹੈ:  
(A) ਲਿੰਗ (B) ਨਾਂਵ (C) ਪੜਨਾਂਵ (D) ਖਾਸ ਨਾਂਵ
3. ਸ਼ੁੱਧ ਸ਼ਬਦ-ਜੋੜ ਚੁਣੋ:  
(A) ਔਗਨ (B) ਔਗੂਣ (C) ਅਉਗੂਣ (D) ਔਗੂਣ
4. 'ਅਭਿਆਸ' ਨੂੰ ਸ਼ੁੱਧ ਕਿਵੇਂ ਲਿਖਿਆ ਜਾਵੇਗਾ:  
(A) ਡਿ (B) ਐ (C) ਸਿ (D) ਡੇ
5. ਵਾਲ਼-ਵਾਲ਼ ਬਚਣਾ ਮੁਹਾਵਰੇ ਦਾ ਸਹੀ ਅਰਥ ਚੁਣੋ:  
(A) ਵਾਲ਼ ਪੁੱਟਣੇ (B) ਵਾਲ਼ ਵਾਹੁਣੇ (C) ਮੌਤ ਦੇ ਮੂੰਹੋਂ ਬਚਣਾ (D) ਵਾਲ਼ ਬਚ ਜਾਣੇ
6. Choose the part of the following sentence that has an error:-  

That is	the same man	as we	saw yesterday
A	B	C	D
7. Choose the part of the following sentence that has an error:-  

Leave	Sachin and I	to	toil alone
A	B	C	D
8. Choose the part of the following sentence that has an error:-  

The population	of London is	greater than	any city in India
A	B	C	D
9. Choose the part of the following sentence that has an error:-  

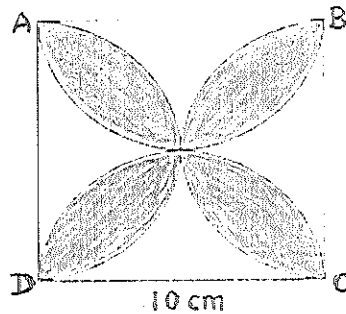
What is wanted	are not	large houses	but small cottages
A	B	C	D
10. Choose the correct meaning of the following idiom:-  
To take after  
A) to resemble                      B) to accept defeat  
C) to accept the challenge        D) to follow one's enemy
11. Choose the correct meaning of the following idiom:-  
to put up with.  
A) to tolerate.                      B) to criticize others  
C) to conspire against            D) to postpone
12. Choose the correct meaning of the following idiom:-  
To pull together  
A) to work together in harmony    B) to fight against disease  
C) to manage one's work            D) to trust others
13. Choose the correct preposition to be filled into the gap of the following sentence:  
He assented \_\_\_\_\_ my request  
A) to                                      B) by                                      C) from                                      D) at

14. Choose the correct preposition to be filled into the gap of the following sentence:  
Harish complied \_\_\_\_\_ the orders  
A) with                      B) of                      C) from                      D) at
15. Choose the correct preposition to be filled into the gap of the following sentence:  
He dwelled \_\_\_\_\_ spirituality in his speech  
A) on                      B) of                      C) in                      D) with
16. The demand for Punjab State was made in February 1948 by?  
A) Master Tara Singh                      B) Giani Kartar Singh  
C) Giani Zail Singh                      D) Partap Singh Kairon
17. Who killed Sir Michael O' Dwyer, believed to be the Chief Planner of the Jallianwalla Bagh Massacre?  
A) Chandra Sekhar Azad                      B) Udham Singh  
C) Bhagat Singh                      D) Kartar Singh Duggal
18. When and where was the first Khalsa college founded?  
A) At Jalandhar in 1892                      B) At Patiala in 1893  
C) At Amritsar in 1892                      D) At Amritsar in 1893
19. Parkash Singh Badal is having \_\_\_\_\_ term as Chief Minister of Punjab?  
A) 4<sup>th</sup>                      B) 5<sup>th</sup>                      C) 6<sup>th</sup>                      D) 3<sup>rd</sup>
20. Name of present Punjab Vidhan Sabha Speaker?  
A) Nirmal Singh Kahlon                      B) Manoranjan Kalia  
C) Bikram Singh Majithia                      D) Chanranjit Singh Chatwal
21. Secularism means?  
A) Suppression of all religions  
B) Freedom of worship to minorities  
C) Separation of religion from state  
D) A system of political and social philosophy that does not favor any particular religious faith
22. Who is called 'Man of Peace'?  
A) M.K Gandhi                      B) Lal Bahadur Shastri  
C) Rabindra Nath Tagore                      D) Dalai Lama
23. First woman Prime Minister in the world was of?  
A) Sri Lanka                      B) Bhutan                      C) India                      D) Nepal
24. World Human Rights Day is observed on?  
A) 4<sup>th</sup> June                      B) 10<sup>th</sup> December                      C) 22<sup>nd</sup> October                      D) 3<sup>rd</sup> Dec
25. Who among the following has become the first Indian Actress to be on the jury of the Cannes International Film Festival?  
A) Mala Sinha                      B) Vyjayanthimala                      C) Vidya Balan                      D) Aishwaraya Rai
26. Against which of the following countries a resolution has been recently passed in the UN General Assembly for Human Rights violations?  
A) Sri Lanka                      B) Pakistan                      C) North Korea                      D) Iraq



41. In a certain code language 'Tom Kun Sud' means "Dogs are barking"; Kun JO Mop means 'Dogs and Horses' and 'Mut Tom Ko means "Donkeys are mad'. Which word in that language means 'barking'?
- A) Jo                      B) Kun                      C) Sud                      D) Tom
42. Pointing to a Photograph, a man said, "I have no brother or sister but that man's father is my father's son. Whose photograph was it?
- A) His own                      B) His son's                      C) His father's                      D) His nephew's
43. Arrange the given words in alphabetical order and tick the one that comes second.
- A) Explosion                      B) Emergency                      C) Ecstasy                      D) Eager
44. In the following alphabet series, which letter is eighth to the left of sixteenth letter from the right end?  
A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- A) B                      B) S                      C) C                      D) H
45. 15 men working 8 hours daily earn Rs.1200 in 25 days. How much will 20 men earn in 20 days working 10 hours daily?
- A) 1200                      B) 1800                      C) 1500                      D) 1600
46. Which of the following statements is false?  
(A) Some rational numbers are not integers    (B) All rational numbers are not integers  
(C) No rational number is an integer    (D) none of these
47. The sum  $1^3 + 2^3 + 3^3 + \dots + 9^3$  is equal to  
(A) 2015                      (B) 2025                      (C) 2035                      (D) none of these
48. A man has only 20 paise and 25 paise coins in his purse. If he has 50 coins in all totaling Rs. 11.25, how many coins of each does he have?  
(A) 25, 35                      (B) 25, 25                      (C) 35, 35                      (D) none of these
49. In a triangle ABC, suppose  $AC = BC$  and  $(AB)^2 = 2(AC)^2$ . Then angle A is  
(A)  $\frac{\pi}{2}$                       (B)  $\frac{\pi}{6}$                       (C)  $\frac{\pi}{4}$                       (D) none of these
50. A train travels at 90 km/hour. How many meters will it travel in 15 minutes?  
(A) 22500 m                      (B) 1350 m                      (C) 22.5 m                      (D) none of these
51. In what ratio does the point  $(-4, 6)$  divide the line segment joining the points  $A(-6, 10)$  and  $B(3, -8)$ ?  
(A) 7 : 2                      (B) 3 : 7                      (C) 2 : 5                      (D) 2 : 7
52. There are 40 students in a class. One day  $\frac{7}{10}$  students were present. The number of absentees on that day is  
(A) 7                      (B) 10                      (C) 12                      (D) 15
53. Maximum value of  $\{\sin x + \cos x\}$  can be  
(A)  $\sqrt{2}$                       (B) 1                      (C)  $\frac{1}{\sqrt{2}}$                       (D) 2

54. If 10% of an electricity bill is deducted, Rs. 45 is still to be paid. How much was the bill?  
 (A) 90 (B) 50 (C) 60 (D) 100
55. The smallest number from which if 4000 subtracted, is exactly divisible by 7, 11 and 13, is  
 (A) 2999 (B) 1000 (C) 6303 (D) 5001
56.  $\log_2(100)$  is equal to  
 (A) 2 (B)  $1 + \log_2 5$  (C)  $2 + 2 \log_2 5$  (D)  $1 + 2 \log_2 5$
57. The value of  $k$  for which equations  $2x + 3y = 5$ ,  $6x + ky = 15$  has infinitely many solutions is  
 (A)  $k = 9$  (B)  $k \neq 9$  (C)  $k = 6$  (D) none of these
58. A bag contains 7 red and 5 white balls. Four balls are drawn at random. What is the probability that 2 of them are red and 2 white?  
 (A)  $14/33$  (B)  $13/33$  (C)  $4/33$  (D)  $4/12$
59. The average age of A and B is 20 years. If C replaces A, the average becomes 19 and if C replaces B, the average becomes 21. What are ages of A, B and C?  
 (A) 22, 18, 60 (B) 22, 18, 20 (C) 18, 60, 75 (D) 18, 20, 100
60. In the following figure ABCD is a square of side 10 cm and semicircles are drawn with each side of the square as diameter. Find area of the shaded portion of the square (use  $\pi = 3.14$ ).



- (A)  $55 \text{ cm}^2$  (B)  $56 \text{ cm}^2$  (C)  $53 \text{ cm}^2$  (D)  $57 \text{ cm}^2$
61. A method of ensuring integrity of a document  
 A) Firewall B) SSL C) Authentication D) Digital Signatures
62. The Octal system uses powers of  
 A) 2 B) 10 C) 16 D) 8
63. Formatting a disk means  
 A) Installing an operating system on it.  
 B) Setting up sections on the disk to store the files in.  
 C) Cleaning the disk from any dust contaminates.  
 D) Programming the disk so data on it can't be erased.
64. Which of the following is not hardware?  
 A) MS Word B) Monitor C) Magnetic Tape D) Printer
65. Which of the following is Impact Printer?  
 A) Laser Printer B) Line Printer C) InkJet Printer D) None of above



- 77 In MS-Excel, data can be sorted by  
 A) A to Z format  
 B) Based on font Color in a particular cell  
 C) Based on cell color  
 D) All of the Above
- 78 In MS-Excel, wrap text option will do the following  
 A) Increase margin on both left and right sides of the cell  
 B) Adjust the size of fonts for the text in a cell  
 C) Make all text visible in a cell by displaying it on multiple lines  
 D) None of above
- 79 In MS-PowerPoint, following can be inserted in presentation using Header and Footer option  
 A) Date and Time  
 B) Slide Number  
 C) Text in the Footer  
 D) All of the Above
- 80 Slide show of the presentation in MS-PowerPoint can be started from  
 A) Current Slide  
 B) First Slide  
 C) Any Slide using Custom Option  
 D) All the Above
81. The units of kinematic viscosity are  
 (A)  $\text{kg/m}^2\cdot\text{sec}$  (B)  $\text{kg}\cdot\text{sec}/\text{m}^2$  (C)  $\text{m}/\text{kg}\cdot\text{sec}$  (D)  $\text{m}^2/\text{sec}$
- 82 A barometer is used to measure  
 (A) Very low pressures (B) Very high pressures  
 (C) Pressure difference between two points (D) Atmospheric pressure
- 83 The flow in a pipe is laminar if the Reynolds number is  
 (A) Less than 2000 (B) Between 2000 and 4000  
 (C) Between 4000 and 6000 (D) Equal to 6300
- 84 Bernoulli's theorem deals with the principle of conservation of  
 (A) Energy (B) Momentum (C) Mass (D) Force
- 85 Capillary action is due to the  
 (A) Viscosity of liquid (B) Cohesion of liquid particles  
 (C) Surface tension (D) Adhesion of liquid particles on the surface
- 86 The stress at neutral axis is  
 (A) Zero (B) Maximum tensile  
 (C) Minimum compressive (D) Minimum tensile
- 87 In a beam where shear force is maximum the bending moment will  
 (A) Maximum (B) Zero  
 (C) Minimum (D) There is no such relation between the two
- 88 Rivets are generally specified by  
 (A) Shape (B) Overall length  
 (C) Thickness of plates to be jointed (D) Shank diameter



- 89 The point of contra flexure can exist in a  
 (A) Simply supported beam  
 (B) cantilever  
 (C) Beam with overhangs but without any load on the overhanging sections  
 (D) Beam fixed at both ends
- 90 Permeability of soil varies  
 (A) Inversely as square of grain size (B) Inversely as grain size  
 (C) As grain size (D) Square of grain size
- 91 Quick sand  
 (A) Is a condition in which a cohesion-less soil loses its strength because of upward flow of water  
 (B) Is moist sand containing small percentage of clay  
 (C) Is a condition which generally occurs in coarse sands  
 (D) Is a condition in which cohesive properties of soil increase rapidly
- 92 The density of a soil can be increased by  
 (A) Expelling the moisture from pores (B) Elastic compression of soil grains  
 (C) Reducing the space occupied by air (D) Any of the above
- 93 Marble is classified as  
 (A) Igneous rock (B) Metamorphic rock  
 (C) Sedimentary rock (D) Stratified rock
- 94 In a good quality, the moisture absorption should be limited to  
 (A) 1% (B) 5% (C) 15% (D) 20%
- 95 The number of bricks required per cubic meter of brick masonry is  
 (A) 400 (B) 450 (C) 500 (D) 550
- 96 Separation of water on the fresh concrete is called  
 (A) Segregation (B) Bleeding (C) Curing (D) Hydration
- 97 Age of a tree can be estimated  
 (A) From the height of the tree (B) Diameter of the bark  
 (C) Number of rings on the bark section (D) Number of least wood rings
- 98 Slump test for concrete is carried out to determine  
 (A) Workability (B) Durability (C) Water content (D) Strength
- 99 The black cotton soil  
 (A) Has high bearing capacity  
 (B) Gives bad appearance to building due to black colours  
 (C) Has negligible permeability  
 (D) Undergoes large volumetric change with moisture
- 100 The raft foundations are used to buildings  
 (A) Where the soil is water logged  
 (B) Where the soil is weak  
 (C) Where the soil is strong  
 (D) Where the area required for individual footings is more than 50% of total plan area

- 101 The apex line of a sloping roof is called  
 (A) Ridge (B) Apex (C) Top (D) Rafter
- 102 The under surface of a stair is called  
 (A) Waste (B) Soffit (C) Ceiling (D) Under ceiling
- 103 Water logging may result from  
 (A) Over irrigation (B) Seepage from adjoining reservoirs etc.  
 (C) Inadequate drainage (D) Any of the above
- 104 A silt regulator located at the head of a channel, is called  
 (A) Head extractor (B) First regulator (C) Silt excluder (D) Silt injector
- 105 A sluice is  
 (A) A conduit for carrying water at high velocity  
 (B) An opening in a structure for passing debris  
 (C) To cause water to flow at high velocities for wastage for purposes of excavation, ejecting debris, etc.  
 (D) Any of the above
- 106 In case of a gravity channel  
 (A) The F.S.L. is always parallel to the ground level  
 (B) The F.S.L. is always below the ground level  
 (C) The F.S.L. is generally slightly (only few centimeters) above the ground level  
 (D) The F.S.L. is generally more than 5 metres above the ground level
- 107 The aeration of water is done for the removal of  
 (A) Colour (B) odour (C) Hardness (D) Bacteria
- 108 Turbidity may be removed by  
 (A) Sedimentation (B) Filtration (C) Agitation (D) Aeration
- 109 The usual period of cleaning for a slow sand filter is  
 (A) 12-24 hours (B) 2-3 days (C) 2-3 months (D) 2-3 weeks
- 110 Potassium permanganate is used for  
 (A) Reducing hardness (B) Reducing acidity  
 (C) Removing organic matter (D) Improving colour
- 111 The gas which is mainly responsible for explosion in sewers is called  
 (A) Methane (B) Ethane (C) Ammonia (D) Carbon-mono-oxide
- 112 The test conducted by Vicat's apparatus is for  
 (A) Fineness (B) Compression strength (C) Tensile strength (D) Consistency
- 113 If the fineness modulus of sand is 2.5 it is graded as  
 (A) Very coarse sand (B) Coarse sand (C) Medium sand (D) Fine sand
- 114 Workability of concrete is affected by  
 (A) Water and cement content (B) Size of the aggregate  
 (C) Shape, angularity and surface texture of aggregate (D) All of the above

- 115 As per Indian Standard Specifications the size of cube for testing the strength should be  
(A) 5cm (B) 10cm (C) 12cm (D) 15cm
- 116 Increased depth of a beam leads to  
(A) Economy in steel (B) Economy in concrete  
(C) Increased stiffness of the section (D) All of the above
- 117 Transverse reinforcement is provided in slabs for  
(A) More uniform distribution of the effect of point loads on the slab  
(B) Even distribution of shrinkage and temperature cracks  
(C) For keeping the reinforcement in position  
(D) All of the above
- 118 When a number of columns are to be constructed in a row, the type of foundation generally preferred is  
(A) Strip footing foundation (B) Raft foundation  
(C) Pile foundation (D) Grillage foundation
- 119 In concrete if the reinforcement wires are stretched after the concrete has hardened, it is called  
(A) Post tensioning (B) Initial tensioning  
(C) High tensioning (D) Pretensioning
- 120 The minimum diameter of main bars in R.C.C. Columns should be  
(A) 6mm (B) 8 mm (C) 10 mm (D) 12 mm

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## ANSWER KEY-Draftsman

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	21	D	41	C	61	D	81	D	101	A
2	C	22	B	42	B	62	D	82	D	102	B
3	D	23	A	43	C	63	B	83	A	103	D
4	A	24	B	44	C	64	A	84	A	104	C
5	C	25	D	45	D	65	B	85	C	105	D
6	C	26	A	46	C	66	A	86	A	106	C
7	B	27	A	47	B	67	B	87	A	107	B
8	D	28	B	48	B	68	C	88	D	108	A
9	B	29	D	49	C	69	B	89	D	109	C
10	A	30	A	50	A	70	A	90	D	110	D
11	A	31	A	51	D	71	B	91	A	111	A
12	A	32	D	52	C	72	D	92	D	112	D
13	A	33	D	53	A	73	A	93	B	113	D
14	A	34	C	54	B	74	A	94	B	114	D
15	A	35	B	55	D	75	D	95	C	115	D
16	A	36	D	56	C	76	A	96	C	116	D
17	B	37	C	57	A	77	D	97	B	117	D
18	C	38	A	58	A	78	C	98	A	118	A
19	B	39	D	59	B	79	D	99	D	119	A
20	D	40	A	60	D	80	D	100	D	120	D