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# QUESTION BOOKLET AND ANSWER KEY

## For Recruitment Test for the post of Draftsman

## Code-P-4

## held on 25.3.2012

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English Version

1. 'ਠਾਹਰ ਲੱਭਣੀ' ਮੁਹਾਵਰੇ ਦਾ ਅਰਥ ਹੈ ?

(A) ਠਹਿਰ ਜਾਣਾ (B) ਭੱਜਕੇ ਪਿੱਛਾ ਕਰਨਾ

(C) ਆਸਰਾ ਲੱਭਣਾ (D) ਭੇਤ ਜਾਣਨਾ

2. ਪੰਜਾਬੀ ਵਿਆਕਰਣ ਵਿੱਚ ਕਾਰਕ ਦੀਆਂ ਕਿੰਨੀਆਂ ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ ਹਨ :

(A) ਅੱਠ (B) ਸੱਤ (C) ਛੇ (D) ਪੰਜ

3. ਅਕਰਮਕ ਕਿਰਿਆ ਕਿਹੜੀ ਹੁੰਦੀ ਹੈ ?

(A) ਜਿਸ ਵਿੱਚ ਦੋ ਕਰਮ ਹੋਣ (B) ਜਿਸ ਕਿਰਿਆ ਦਾ ਕੋਈ ਕਰਮ ਹੋਵੇ

(C) ਜਿਸ ਕਿਰਿਆ ਵਿੱਚ ਇੱਕੋ ਕਰਮ ਹੋਵੇ (D) ਜਿਸ ਕਿਰਿਆ ਦਾ ਕੋਈ ਕਰਮ ਨਾ ਹੋਵੇ ।

4. ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਸ਼ੁੱਧ ਸ਼ਬਦ ਚੁਣੋ :

(A) ਬਿਆਹ (B) ਵਿਆਹ (C) ਵਿਵਾਹ (D) ਬਿਬਾਹ

5. 'ਮੋਹਨ ਨੇ ਕਹਾਣੀ ਪੜ੍ਹੀ' ਇਸ ਵਾਕ ਵਿੱਚ ਸੰਬੰਧਕ ਕਿਹੜਾ ਹੈ :

(A) ਨੇ (B) ਮੋਹਨ (C) ਕਹਾਣੀ (D) ਪੜ੍ਹੀ

**Directions Qs.6-8:- Mark the correct antonyms, out of the four choices given below, of the following words :-**

**Q.6. Vague**

(A) Obvious (B) Outrageous (C) Invalid (D) Inaudible

**Q. 7. Snooty**

(A) Modest (B) Dangerous (C) Snobbish (D) Ruthless

**Q.8. Strew**

(A) Visible (B) Gather (C) Decorate (D) Scatter

**<u>Directions :</u> Qs 9- 12:- Mark the correct meaning of the italicized idioms/phrases used in the following sentences out of the four choices:-**

**Q.9. Both of them have finally decided *to bury the hatchet* :-**

(A) to trust each other (B) to make peace

(C) to abuse each other (D) to avoid each other

**Q. 10. It is more advantageous for us *to let the bygones be bygones*:-**

(A) to believe in the past (B) to revive the past

(C) to ignore the past (D) to reconstruct the past.

**Q.11. I *sent him about his business* as I could not tolerate his insolence.**

(A) asked him to work (B) criticized him

(C) dismissed him peremptorily (D) abused him.

**Q.12. He works *by fits and starts*:-**

(A) sincerely (B) regularly (C) enthusiastically (D) irregularly



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**Directions( Qs 13-15):- Mark the correct form of the indirect narration out of the four options given below:-**

**Q.13. Hari said to me," What are you doing?"**
(A).Hari said to me what was I doing. (B)Hari told me what was I doing.
(C) Hari asked me what he was doing. (D) Hari asked me what I was doing.

**Q. 14. "Where do you live?", asked the stranger.**
(A) The stranger enquired where I lived. (B) The stranger asked where did I live.
(C) The stranger enquired where he lives. (D) The stranger asked where he lived.

**Q. 15. He said to them, "Will you listen to me for a while?"**
(A) He asked them whether they would listen to him for a while.
(B) He told them if you could listen to me for a while.
(C ) He asked them if you could have listened to him for a while.
(D) He ordered them to listen to him for a while.

**16. India became a non permanent member of the UN Security Council in 2011 after a gap of _____years.**
(A) 17 (B) 18 (C) 19 (D) 20

**17. An electric cell converts?**
(A) light energy in to chemical energy (B) chemical energy in to electric energy
(C) electric energy in to light energy (D) light energy in to electric energy

**18. Who is the Chairman of the National Commission for Minorities?**
(A) Dr.Amartya Sen (B) Wajahat Habibullah (C) U.K Sinha (D) Jaipal Reddy

**19. ASHA is a scheme that provides for?**
(A) Health Service (B) Clean water
(C) Clean environment (D) Poverty alleviation

**20. Right to free and compulsory education under Art 21.A is meant for children of the age group?**
(A) 6 to 14 years (B) 7 to 14 years (C) 5 to 12 years (D) 1 to 12 years

**21. What is Umbra?**
(A) Shadow (B) Dark region in a shadow
(C) An image (D) Light region in a shadow

**22. Hornbill festival is celebrated in the State of?**
(A) Nagaland (B) Goa (C) Jammu & Kashmir (D) Tamil Nadu

**23. HTTP stands for?**
(A) Hyper Transmission transfer protocol (B) Hypertext Transfer protocol
(C) Hyper Transfer Translation Protocol (D) Hypertext Transmission protocol

**24. Temporary storage space on chips in a computer is known as?**
(A) CPU (B) ROM (C) RAM (D) URL



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25. **Which of the following is a non renewable resource?**
(A) Forests (B) Petroleum (C) Water (D) Crops

26. **Which of the following toxic substances derive from plastic and polythene bags?**
(A) dioxins (B) furans (C) both (A) and (B) (D) none of the above

27. **National Institute of aeronautical engineering is situated at?**
(A) Pune (B) Dehradun (C) Bangalore (D) Bombay

28. **India's first indigenously designed and developed Light Combat Aircraft is called?**
(A) Arjun (B) Agni (C) Tejas (D) Lakshya

29. **Bisleri Mineral water is a product from?**
(A) Pepsi (B) Coca Cola (C) Parle (D) Nestle

30. **"Express yourself" is the slogan of which of the following?**
(A) Airtel (B) Idea (C) Hutch (D) Reliance

31. **'Income' is related to 'profit' in the same way as 'expenditure' is related to?**
(A) sale (B) receipts (C) surplus (D) loss

32. **The positions of the first and the fifth digits of the number 38271965 are interchanged. Similarly the positions of the second and the sixth digits are interchanged and so on. Which of the following will be third digit from the right after the rearrangement?**
(A) 2 (B) 8 (C) 9 (D) none of these

33. **Which pair of the letters in the word BEAUTIFUL has the same relationship between its letters with respect to their position in the English alphabet as the pair EA in that word has between its letters?**
(A) IE (B) IB (C) LF (D) TL

34. **Three of the following four are alike in a certain way so form a group. Which is the one that does not belong to that group?**
(A) van (B) cargo (C) truck (D) trolley

35. **What is the number of numbers between 100 and 200 if both the numbers are to be counted?**
(A) 101 (B) 100 (C) 99 (D) 102

36. **In a certain code AROMATIC is written as BQPLBSJB. How is BRAIN written in that code?**
(A) CQBHO (B) CQBJO (C) CSBJO (D) CSBHO

37. **A walked 30 meters towards East and took a right turn and walked 40 meters. He again took a right turn and walked 50 meters. Towards which direction is he from his starting point?**
(A) West (B) South (C) South- East (D) South West



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38. **A, B, C, D and E were arranged in descending order of their weight from top. A became third, E is between D and A, C and D are not at the top. Who among them is second?**
(A) D (B) E (C) C (D) A

39. **How many pairs of letters are there in the word NECESSARY which have as many letters between them in the word as there are between them in the alphabet and in the same order?**
(A) two (B) one (C) three (D) Nil

40. **Pointing to woman, Suresh said, "She is the daughter of my grandfather's only daughter" How is Suresh related to the woman?**
(A) Brother (B) Cousin (C) Uncle (D) none of these

41. **If 'tee see pee' means 'Drink fruit juice' 'see kee lee' means juice is sweet and 'lee ree mee' means 'He is intelligent' which word in that language means sweet?**
(A) kee (B) see (C) lee (D) pee

42. **15 men working 8 hours daily can earn Rs.1200 in 25 days. How much will 20 men earn in 20 days working 10 hours daily?**
(A) 1600 (B) 800 (C) 1200 (D) 1800

43. **What number should be added to each number of the ratio 2:5, so that the remainder became 4:5?**
(A) 10 (B) 9 (C) 8 (D) 7

44. **A man reads 3/8 of a book on a day and 4/5 of the remainder, on the second day. If the number of pages still unread is 40, how many pages did the book contain?**
(A) 300 (B) 315 (C) 320 (D) none of these

45. **Choose the term which will continue the following series?**
P3C, R5F, T8I, V12L ?
(A) X 17 O (B) Y 17 O (C) X 17 M (D) X 16 O

46. **Which of the following is not an input device?**
(A) OCR (B) Optical scanners
(C) Voice recognition device (D) Laser printer

47. **In most Computers, the CPU, the device drives, memory expansion slots and active components are mounted on a single board. What is the name of this board?**
(A) Breadboard (B) Daughter board (C) Motherboard (D) Grandmother board

48. **An unsolicited e-mail message sent to many recipients at once is a _____.**
(A) Worm Mail (B) Trojan horse (C) Spy ware (D) Spam Mail

49 **In most cases, the operating system such as Windows resides on the computer's _____.**
(A) Tape cartridge (B) Compact disc (C) Hard disk (D) Processor



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50. **A _____ is a network that connects computers in a limited geographic area, such as a school computer laboratory, small office, or computers at home.**
(A) Local area network (LAN) (B) Wide area network (WAN)
(C) Partial area network (PAN) (D) Boundless area network (BAN)

51. **Multimedia can contain**
(A) Graphics, animation, video, music, and voice
(B) Only numeric-type data
(C) Numeric, text, and picture data
(D) Databases that in turn, contain other databases, creating massive data collection

52. **The bare machine or electronic circuitry of a computer system is called:**
(A) software (B) hardware (C) firmware (D) none of above

53. **Which of the following operating system is available in free domain?**
(A) Red Hat Linux (B) SUN Solaris (C) Windows XP (D) Mac OS

54. **A network topology in which all data pass through a central computer is :**
(A) bus network (B) star network (C) mesh network (D) ring network

55. **The term operating system means :**
(A) a set of programs which control computer working
(B) the way a computer operator works
(C) conversion of high level language to machine language
(D) none of the above.

56. **Which is the default file extension for MS-Word 2007 files :**
(A) .doc (B) .docx (C) .word (D) .rtf

57. **Buying and Selling goods over Web is known as :**
(A) E-commerce (B) M-commerce (C) Trading (D) Hyper Market

58. **Basic purpose of Microprocessor is to:**
(A) store information (B) print data (C) compute data (D) send an e-mail

59. **Portrait and Landscape in Ms-Office are**
(A) Page Orientation (B) Paper Size (C) Page Layout (D) All of above

60. **Find and Replace utility is available in:**
(A) MS-Word (B) MS-Excel (C) MS-Power Point (D) All of the above

61. **Dot-matrix is a type of:**
(A) Tape (B) Printer (C) Disk (D) Bus

62. **Which of the following is a secondary memory device?**
(A) Keyboard (B) Hard Disk (C) ALU (D) CPU

63. **Virtual memory is:**
(A) related to virtual reality (B) a form of ROM
(C) a form of RAM (D) a form of I/O



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64. **A term used for comparison of frequency of different computers is:**
(A) RPM (B) GHz (C) bps (D) CPS

65. **System software:**
(A) provides computer with instructions necessary to operate the system
(B) is necessary to start your computer
(C) permits you to use application software
(D) all of the above

66. **The sum of an infinite GP is defined when the common ratio $r$ satisfies**
(A) $|r| > 1$ (B) $|r| < 1$ (C) $|r| = 1$ (D) none of these

67. **One card is drawn from a well-shuffled deck of 52 cards. The probability that the chosen card is not an ace is.**
(A) 3/4 (B) 1/4 (C) 1/2 (D) none of these

68. **Two cubes each of volume 64 $cm^3$ are joined end to end. Find the surface area of the resulting cuboid.**
(A) 180 $cm^2$ (B) 80 $cm^2$ (C) 176 $cm^2$ (D) 160 $cm^2$

69. **Two dice, one blue and one grey, are thrown at the same time. What is the probability that the sum of the two numbers appearing on the top of the dice is 11?**
(A) 2/18 (B) 1/9 (C) 1/18 (D) none of these

70. **A metallic sphere of radius 1 cm is melted and recast into the shape of a cylinder of radius 1 cm. Find the height of the cylinder.**
(A) 4/3 cm (B) 4 cm (C) 1/3 cm (D) none of these

71. **A goat is tied to one corner of a square plot of side 12m by a rope7m long. Find the area it can graze?**
(A) 19.25 sq.m (B) 155 sq.m (C) 144 sq.m (D) 38.5 sq.m

72. **If $2x - y = 4$ then $6x - 3y = ?$**
(A) 15 (B) 12 (C) 18 (D) 10

73. **A boat travels 20 kms upstream in 6 hrs and 18 kms downstream in 4 hrs. Find speed of the water current?**
(A) 1/2 kmph (B) 7/12 kmph (C) 5 kmph (D) none of these

74. **A 20 m deep well with diameter 7 m is dug and the earth from digging is evenly spread out to form a platform 22 m by 14 m. Find the height of the platform assuming $\pi = 22/7$.**
(A) 5/2cm (B) 5cm (C) 1/2 cm (D) none of these

75. **If ABC and DEF are two similar triangles such that $\angle A = 47^\circ$ and $\angle E = 83^\circ$ then $\angle C$ is**
(A) $30^\circ$ (B) $60^\circ$ (C) $50^\circ$ (D) $90^\circ$

76. **If 1 is one of the zeros of the polynomial $x^2 - x + k$, then the value of k is**
(A) -2 (B) 0 (C) 3 (D) 4



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77. **A man ate 100 bananas in five days, each day eating 6 more than the previous day. How many bananas did he eat on the first day?**
(A) 4 (B) 6 (C) 10 (D) 8

78. **What was the day of the week on January12, 1979 ?**
(A) Monday (B) Wednesday (C) Friday (D) Sunday

79. **In how many points the polynomial $p(x) = x^3 + 8$ intersects with $x$-axis.**
(A) 3 (B) 4 (C) 2 (D) 1

80. **Daal is now being sold at Rs. 20 a kg. During last month its rate was Rs. 16 per kg. By how much percent should a family reduce its consumption so as to keep the expenditure fixed?**
(A) 15 % (B) 25 % (C) 20 % (D) none of these

81. **A slow setting cement should have higher percentage of**
(A) Tricalcium aluminate (B) Tricalcium silicate
(C) Gypsum (D) Dicalcium silicate

82. **Fire bricks are used for**
(A) For increasing heat flow (B) For decreasing heat flow
(C) To reflect heat (D) To provide protection against electrical fire

83. **The extensions of wall above the roof level is called**
(A) Retaining wall (B) Breast wall (C) Buttress wall (D) Parapet wall

84. **In a stone masonry, a piece of stone projecting from a wall to support a structural member is known as**
(A) Cornice (B) Corbel (C) Cramp (D) Cantilever

85. **A survey which consists in observations to the heavenly bodies such as sun or any other fixed star, is known as**
(A) Heaven survey (B) Astrological survey
(C) Astronomical survey (D) Photographic survey

86. **If the whole circle bearing of a place is $170^0$ 12' , the quadrantal bearing would be**
(A) N $9^0$ 48' E (B) S $80^0$ 12' E (C) S$9^0$ 48' E (D) W $9^0$ 48' S

87. **Two contour lines of different elevations can cross each other on `X' in case of**
(A) A pond (B) A cliff (C) A hill (D) A ridge

88. **Which one has the least area**
(A) Hectare (B) Acre (C) Are (D) Square mile

89. **A bitumen premix prepared from stone chippings 10 to 12 mm, sand and the bitumen is**
(A) Bitumen macadam (B) Bitumen concrete
(C) Sheet asphalt (D) Bitumen carpet

90. **The rate of rise or fall of road along its length is called**
(A) Slope (B) Ramp (C) Angle (D) Gradient



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91. **Estimate for electrical wiring is prepared on the basis of**
(A) Voltage (B) Power (C) Number of appliances (D) Points

92. **The standard width of asbestos cement corrugated sheet is**
(A) 0.90 m (B) 1.00 m (C) 1.05 m (D) 1.25 m

93. **`CPM' stands for**
(A) Critical project management (B) Critical path method
(C) Critical project method (D) None of the above

94. **When a ship floats on water**
(A) It displaces no water
(B) The weight of water displaced is equal to the weight of the ship
(C) The weight of water displaced is lesser than the weight of the ship
(D) The weight of water displaced is greater than the weight of the ship

95. **Action of a point gun is based on**
(A) Bernoulli's principle (B) Boyle's law
(C) Faraday's law (D) Archimedes's principle

96. **A critical tank is filled with water. If side of tank is 1 m, pressure on the base of the tank will be**
(A) 10000 kg (B) 5000 kg (C) 1000 kg (D) 4000 kg

97. **The required depth of sand bed in rapid sand filter should be**
(A) 0.6 to 0.9 m (B) 0.6 to 0.75 m (C) 0.3 to 0.45 m (D) 1.0 to 2.0 m

98. **The devices installed for drawing water from the sources are called**
(A) Filters (B) Intakes (C) Aquifers (D) None of these

99. **BOD of safe drinking water should be**
(A) Nil (B) 10 ppm (C) 20 ppm (D) 40 ppm

100. **The minimum moisture content at which the soil begins to crumple when rolled in to 3 mm threads is known as**
(A) Elastic limit (B) Plastic limit (C) Consistency limit (D) Liquid limit

101. **The expansion of soil due to shear at a constant value of pressure is called**
(A) Apparent cohesion (B) True cohesion (C) Dialatancy (D) Consistency

102. **Floating foundation is a type of**
(A) Well foundation (B) Raft foundation (C) Pile foundation (D) None of these

103. **The ratio of shear modulus to the eleastic modulus for the poisson's ratio of 0.4 will be**
(A) 5/3 (B) 3/5 (C) 6/5 (D) 5/6

104. **The torsional stiffness of a member can be defined as**
(A) Torque per unit moment (B) Torque per unit twist
(C) Moment per unit twist (D) Torsion per unit twist



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105. **The three moment equation in structural analysis is basically a**
(A) Stiffness method (B) Displacement method
(C) Energy method (D) Flexibility method

106. **Junction between flange and web of a steel beam is known as**
(A) Lap joint (B) Butt joint (C) Fillet (D) Shear joint

107. **The maximum shear stress of steel member in flexure shall not exceed**
(A) 0.4 fy (B) 0.66 fy (C) 0.5 fy (D) 0.45 fy

108. **Plywood is specified by its**
(A) Weight (B) Volume (C) Thickness (D) None of the above

109. **Asphalt is soluble in**
(A) Water (B) Turpentine (C) Carbon disulphide (D) Kerosene

110. **The concrete may achieve 100% strength after**
(A) 21 days (B) 8 days (C) 1 year (D) 3 years

111. **The bulking of aggregate is due to**
(A) Moisture cement (B) Voids (C) Less compaction (D) All of above

112. **If slump of a concrete mix is 60 mm, its workability is considered to be**
(A) Very high (B) High (C) Medium (D) Low

113. **The lower water cement ratio in concrete produces**
(A) More density (B) Small creep & shrinkage
(C) More band (D) All of the above

114. **In RCC beams, the end cover of concrete should not be less than**
(A) 40 mm (B) 60 mm (C) 25 mm (D) 20 mm

115. **The reinforcement in simply supported RCC beams is usually placed at**
(A) Bottom fibre (B) Top fibre (C) Top & bottom fibre (D) Side fibres

116. **Maximum consumption of water is noticed in**
(A) Paper factory (B) Steel plant (C) Automobile industry (D) Foundry

117. **Per capita water demand is calculated in litres**
(A) Per person per day (B) Per person per month
(C) Per person per week (D) Per person per year

118. **The turbidity of water is caused due to**
(A) Clay (B) Silt (C) Organic material (D) All of the above

119. **Disinfection of swimming pool water is usually**
(A) Chlorine (B) Alum (C) Ultravoilet rays (D) Ozone

120. **Fresh sewerage is usually**
(A) Alkaline (B) Neutral (C) Acidic (D) Has PH value 7



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

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