

**Question Booklet and Answer-Key
Recruitment Test of JE(Civil), Local Govt.
Punjab Held on 30.3.2014.**

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Directions Q. No.1- 4:- Choose the opposite of the given word out of the four given options:-

1. Taciturn
A) Talkative B) Arrogant C) Respectful D) Trite
2. Chary
A) Careful B) Heedless C) Friendly D) Mellow
3. Continual
A) Continuous B) Corrosive C) Sporadic D) Certain
4. Emollient
A) Fetid B) Cruel C) Equivocal D) Irritating

Directions Q. No.5-7 :- Choose the correct preposition, out of the four given options, to be filled in the blanks of the following sentences:-

5. Sachin was always alive _____ the ground conditions.
A) to B) about C) for D) of
6. Most of the people in rural India lead a miserable existence that has nothing to sing and dance _____.
A) upon B) about C) on D) under
7. Shivanand's abhorrence _____ fanaticism is known to all.
A) with B) about C) of D) in

Directions Q. No.8-10 :- In the following sentences, four options are given as the meanings or the underlined idioms/ phrases . Choose the correct option which best expresses the meaning of the underlined idiom/ phrase.

8. He stirred up a hornet's nest when he advocated the widow-remarriage.
A) thrilled the people
B) cautioned the people
C) frightened the people
D) excited the hostility of a large number of people
9. A few days before his death, he made a clean breast of everything connected with that affair.
A) confessed without reserve B) criticized others C) alerted D) blamed others
10. He made great claims for his discovery, but it turned out to be a mare's nest.
A) the secret of his discovery B) a delusion C) a surprise D) cause of success
11. Gobar gas contains mainly
A) methane B) carbon dioxide C) butane D) carbon monoxide
12. If father has blood group A and mother has blood group O, then which of the following blood groups may be found in their son?
A) O B) B C) AB D) B, AB or O
13. Night Blindness is caused by the deficiency of
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D
14. Dendrology is associated with
A) worms B) flowers C) roots D) trees
15. Banda Singh Bahadur was executed by the orders of which of the following Emperors?
A) Aurangzeb B) Bahadur Shah C) Farrukh Siyar D) Jahandar Shah

16. Which of the following Mughal Emperor's tomb is outside India?
A) Jahangir B) Akbar C) Shah Jahan D) Aurangzeb
17. Who among the following is known as the 'Heroine' of 1942 Quit India Movement?
A) Dr. Annie Besant B) Suchitra Kriplani C) Aruna Asaf Ali D) Sarojini Naidu
18. Who introduced the system of Civil Services?
A) Warren Hastings B) Lord Dalhousie C) Lord Hardinge D) William Bentick
19. Who proposed the Preamble before the Drafting Committee of the Constitution?
A) Jawahar Lal Nehru B) B.R. Ambedkar C) B.N. Rau D) Mahatma Gandhi
20. Fundamental Duties were incorporated in the Indian Constitution in
A) 1971 B) 1972 C) 1975 D) 1976
21. By which of the following organization is 'Global Competitiveness Report' released?
A) WTO B) World Economic Forum C) SAARC D) EU
22. Which of the following is an indirect tax?
A) Corporation tax B) Capital gains tax C) Excise duty D) Wealth tax
23. Who was the first Indian Governor of the RBI?
A) CD Deshmukh B) S Mukherjee C) Sachindra Ray D) None of above
24. The food for work programme was subsumed in
A) IRDP B) MGNREGS C) RLEGP D) JRY
25. Which of these are nicknamed 'Bretton Woods Twins'?
1. IDA 2. IMF 3. IBRD 4. WTO
A) 1 and 4 B) 2 and 4 C) 3 and 4 D) 2 and 3
26. National Science Day is celebrated in India on
A) February 28 B) May 11 C) May 17 D) June 23
27. The world observed the 'World Blood Donor Day' on which of the following days, with its theme of the year – Give the Gift of Life, Donate Blood?
A) June 10 B) June 14 C) June 20 D) June 7
28. Which of the following teams did win the Irani Cup for 2013-2014
A) Rest of India B) Mumbai C) Delhi D) Karnataka
29. Which of the following cities has bagged the Best Heritage City award for 2012-13
A) Jaipur B) Tirupaty C) Udaipur D) Hyderabad
30. What is the rank of India in the Economic Freedom Index 2014 according to *Heritage Foundation* and the *Wall Street Journal*:
A) 130th B) 115th C) 120th D) 125th
31. 'Crime' is related to 'Police' in the same way as 'Flood' is related to
A) Rain B) River C) Dam D) Reservoir
32. Choose the word from the given alternatives that shows the same relationship as is found between the two words to the right of the sign ::
Oasis : Desert :: ? : Sea
A) Island B) Peninsula C) Backwaters D) Cliff

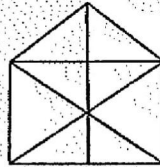
33. Three of the following words-form a group, while one does not belong to the group. Find out that word.
A) Intestines B) Eyes C) Hands D) Ears
34. In the following, three out of the four alternatives have same relationship. You have to choose the one which does not belong to the group.
A) 43 B) 53 C) 63 D) 73
35. In a certain code language, 'PRISM' is written as 'OSHTL' and 'RUBLE' is written as 'QVAMD'. How will 'WHORL' be written in that same code?
A) XIPSM B) VGNQK C) UINSK D) VINSK
36. In certain code language, 'pul ta nop' means 'fruit is good', 'nop ko tir' means 'tree is tall' and 'pul ho sop' means 'eat good food'. Which of the following means 'fruit' in that language?
A) pul B) ta C) nop D) Data inadequate

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

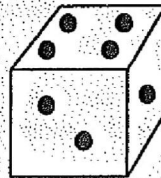
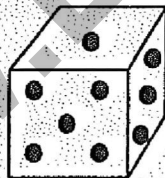
37. AAZ, CEY, EIX, GOW, ?,
A) IUW B) IAV C) IUV D) IWV
38. 561, 532, 235, ?
A) 323 B) 523 C) 723 D) 245
39. 132, 156, 182, 210, ?
A) 230 B) 240 C) 235 D) 245
40. A postman started from the post office and walked 7 km North to reach Mr. Singh's house. He took a left turn and walked 4 km to Mr. Kumar's house. He took a right turn from Mr. Kumar's house and walked 3 km to reach Mr. Sharma's house. What is the length of the shortest distance between Mr. Sharma's house and Mr. Singh's house?
A) 7 km B) 4 km C) 5 km D) 6 km
41. If 'P + Q' means that P is the brother of Q, 'P - Q' means that P is the mother of Q and 'P x Q' means that P is the sister of Q. Which of the following means that M is the maternal-uncle of R?
A) $M - R + K$ B) $M + K - R$ C) $M + K \times Q$ D) None of these
42. Neelam, who is Rohit's daughter, says to Indu, "Your mother Reeta is the younger sister of my father, who is the third child of Sohanji." How is Sohanji related to Indu?
A) Maternal-uncle B) Father C) Grandfather D) Father-in-law
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.
c - bba - cab - ac - ab - ac
A) bcacb B) babcc C) abcbe D) acbcb

Directions Q.No.44 to 46: Study the following information to answer the questions given below:

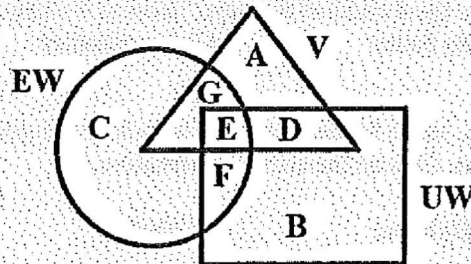
- (i) Eight persons E, F, G, H, I, J, K and L are seated around a square table – two on each side.
 - (ii) There are three lady members and they are not seated next to each other.
 - (iii) J is between L and F.
 - (iv) G is between I and F.
 - (v) H, a lady member, is second to the left of J.
 - (vi) F, a male member, is seated opposite to E, a lady member.
 - (vii) There is a lady member between F and I.
44. Who among the following are the three lady members?
A) E, H and J B) E, G and J C) G, H and J D) H, E and G
 45. Who among the following is seated between E and H?
A) I B) J C) K D) cannot be determined
 46. How many persons are seated between K and F?
A) One B) Two C) Three D) None of these
 47. How many triangles are there in the following figure?



- A) 17 B) 16 C) 19 D) 21
48. The ratio of Raju and Prateek's age is 3:5 and sum of their ages is 80 years. The ratio of their ages after 10 years will be
A) 2:3 B) 1:2 C) 3:2 D) 3:5
49. Two positions of a dice are shown below. When there are two dots at the bottom, the number of dots at the top will be



- A) 2 B) 3 C) 5 D) 6
50. In the following diagram, triangle depicts the villages (V), the square depicts the unemployed women (UW) and the circle depicts the educated women (EW).



Educated unemployed women in the village are represented by

- A) E B) D C) E and F D) F

51. The centre of gravity of a hemisphere of radius 'r' from its base measured along vertical radius is
 A) $4r/3$ B) $3r/2$ C) $3r/8$ D) $4r/7$
52. In a machine, the ratio in between output and input is known as
 A) Efficiency B) Mechanical advantage C) Velocity ratio D) Leverage
53. Compression members are generally called
 A) Struts B) Ties C) Purlins D) none of the above
54. The theoretical velocity of jet at vena contracta is
 A) $2gh$ B) $2g\sqrt{H}$ C) $\sqrt{2gh}$ D) $H\sqrt{2g}$
55. In a free vortex, velocity
 A) decreases with radius B) increases with radius
 C) is constant D) none of the above
56. In an open channel flow, the discharge corresponding to critical depth is
 A) Minimum B) Maximum C) Zero D) Average
57. A wire can be broken by applying a load of 20 kg weight. The force required to break the wire of twice the diameter is
 A) 20 kg weight B) 5 kg weight C) 50 kg weight D) 160 kg weight
58. The deformation per unit length is called
 A) tensile stress B) compressive stress C) shear stress D) strain
59. The strength of a beam section depends upon
 A) its sectional area B) its sectional modulus
 C) distance of its base from N.A. D) its length
60. The shear stress on principal plane is
 A) Maximum B) Minimum C) Zero D) none of the above
61. The survey, in which the curvature of earth is ignored, is called as
 A) Plane survey B) Geodetic survey C) Geological survey D) Aerial survey
62. As per Indian Standard, the length of one link in 30m chain should be
 A) 20 cm B) 30 cm C) 40 cm D) 10 cm
63. Traversing is generally done by
 A) chain B) compass or theodolite
 C) plane table D) All of the above are correct
64. The variation in magnetic declination is termed as
 A) Diurnal variation B) Solar variation C) Lunar variation D) none of the above
65. In brick masonry the frog of the brick is generally kept on
 A) top face B) bottom face C) exposed face D) interior face
66. Fat lime is also called
 A) Quick lime B) Hydraulic lime C) Slaked lime D) White lime
67. Volume of 1 bag of cement weighing 50 kg is
 A) 3.4 cum B) 0.034 cum C) 1.05 cum D) 0.020 cum

68. The joints provided in wooden floor are
 A) Tongue and groove B) Butt C) Dove tail D) Tee joints
69. Rusting can be prevented by applying coating of
 A) Red lead B) White lead C) Zinc oxide D) Bitumen
70. Dog-legged stairs are
 A) Straight stair B) Quarter turn stair C) Half turn stair D) Three fourth turn stair
71. The effective size of a soil is
 A) D_{10} B) D_{20} C) D_{30} D) D_{40}
72. When the plasticity index of a soil is zero, the soil is
 A) clay B) silt C) sand D) silty sand
73. The dimensions of coefficient of permeability are
 A) cm B) gm/cm^2 C) cm/sec D) gm/cm^2
74. Floating foundation is a type of
 A) Well foundation B) Raft foundation C) Pile foundation D) none of the above
75. The height of capillary rise is maximum in
 A) fine gravel B) colloids C) silt D) fine sand
76. Foundations for buildings on sandy soils must have a depth of atleast
 A) 0.1 m B) 0.5 m C) 0.8 to 1.0 m D) 2 to 5 m
77. The number of piles required to support a column is
 A) 1 B) 2 C) 3 D) 4
78. The stiffness method in structural analysis is also known as
 A) Unit load method B) Consistent deformation method
 C) Force method D) Displacement method
79. As per Indian Roads Congress, the slope of earth in cutting should be
 A) 1:2 B) 1:1 C) 1:4 D) 1:3
80. Which test is performed for quick determination of the quality of subgrade soil?
 A) Stripping B) Atterberg limits C) Shear strength tests D) CBR
81. Generally, the thickness of asphaltic concrete adopted is
 A) 2 cm B) 3 cm C) 4 cm D) 5 cm
82. The ideal form of curve for the summit curve is
 A) Spiral B) Parabola C) Circular D) none of the above
83. An Enoscope is used for measuring
 A) Running speed B) Time mean speed
 C) Spot speed D) Overall speed
84. The size of a butt weld is specified by
 A) Throat thickness B) Effective throat thickness
 C) Thickness of thickest part joined D) none of the above
85. The T-beam bridge is generally constructed as
 A) Deck bridge B) Through bridge C) Semi-through bridge D) none of the above

86. One cubic meter of mild steel weighs about
A) 1000 kg B) 3625 kg C) 7850 kg D) 12560 kg
87. Disinfection of water is done by
A) Filtration B) Passing chlorine C) Ozone D) Alum
88. The best coagulant for removing the colour of water is
A) Lime B) Copper sulphate C) Iron sulphate D) Alum
89. The first stage in water treatment is
A) Filtration B) Disinfection C) Sedimentation D) Coagulation & mixing
90. The sub surface water obtained under pressure is generally known as
A) Open well B) Tube well C) Infiltration well D) Artesian well
91. pH value of fresh sewage is expected to be
A) 1 B) 3.5 C) 7 D) 8 to 11
92. The gas that is mainly responsible for explosion in sewers is
A) Ammonia B) Methane C) Oxygen D) Carbonmonoxide
93. Desalination is usually done for
A) Well water B) Lake water C) River water D) Sea water
94. To avoid correction for capillary action in manometers used for measuring pressures, minimum diameter of the tube should be
A) 6 mm B) 2.5 mm C) 10 mm D) 50 mm
95. The approximate weight of a brick should be
A) 2.5 kg B) 4.5 kg C) 5.1 kg D) 3.2 kg
96. If a glass is made of pure silica, then it will be
A) Insoluble in water B) Completely soluble in water
C) Partially soluble in water D) All the above are wrong
97. The impure form of iron, containing carbon in between 2.0 to 4.5% is known as
A) Stainless steel B) Wrought iron C) Steel D) Cast iron
98. While finding bearing capacity of the soil by bearing plate method, the size of the steel plate used should be
A) 30 cm x 30 cm B) 1m x 1m C) 60 cm x 60 cm D) 45 cm x 45 cm
99. As per IRC, the camber on cement concrete roads should be
A) 1 in 60 to 72 B) 1 in 45 to 60 C) 1 in 20 to 24 D) 1 in 12 to 16
100. As per IRC, the maximum width of a vehicle should be
A) 2 m B) 2.44 m C) 3.8 m D) 1.58 m

KEY

Post: JE Civil (30.03.2014, Morning Session)

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