

Question Booklet and Answer Key
For Recruitment Test Held on
15.11.2015 (Morning)
Post: Junior Engineer (Civil) and
(O & M) Civil

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1. ਸੁੱਧ ਸ਼ਬਦ-ਜੋੜ ਚੁਣੋ:
(A) ਮਨਦਰ (B) ਮੰਦੀਰ (C) ਮੰਦਿਰ (D) ਮੰਦਰੁ
2. ਕਾਰਕ ਕਿੰਨੇ ਪ੍ਰਕਾਰ ਦੇ ਹੁੰਦੇ ਹਨ:
(A) ਸੱਤ (B) ਅੱਠ (C) ਦਸ (D) ਪੰਜ
3. ਉਲਟੀ ਵਾੜ..... ਮੁਹਾਵਰਾ ਪੂਰਾ ਕਰੋ:
(A) ਖੇਤ ਨੂੰ ਵੱਢੇ (B) ਖੇਤ ਨੂੰ ਕੱਟੇ (C) ਖੇਤ ਨੂੰ ਖਾਏ (D) ਖੇਤ ਨੂੰ ਜਾਏ
4. 'ਮਾੜੀ' ਕੀ ਹੈ?
(A) ਭਾਸ਼ਾ (B) ਉਪ-ਭਾਸ਼ਾ (C) ਖੇਤਰ (D) ਟਕਸਾਲੀ ਭਾਸ਼ਾ
5. ਕਿਰਿਆ-ਵਿਸ਼ੇਸ਼ਣ ਦੀਆਂ ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ ਹਨ:
(A) ਅੱਠ (B) ਸੱਤ (C) ਛੇ (D) ਪੰਜ

Directions (Q.No. 6-8): Mark the word that best expresses the meaning conveyed by the given expression.

6. Tending or intended to delay
A) dilatory (B) dilettante (C) dearth (D) dreary
7. Having softening and soothing qualities
A) Trite (B) Testy (C) Emolument (D) Emollient
8. The study of the improvement of human functioning and well-being by adjustment of environment
A) Eugenics (B) Euthenics (C) Eutropy (D) Autarky

Directions (Q. No. 9 & 10): Mark the correct synonym of the given word out of the four options.

9. Shapely
A) Buxom (B) Bullion (C) Benediction (D) Bilious
10. Slender
A) Attentive (B) Attendant (C) Attenuated (D) Attractive
11. Contour Lines join on a map
A) places of equal height above sea level (B) places of equal atmospheric pressure
C) places of equal temperature (D) places of equal geographical area
12. Which of the following planets is known as the Morning Star or the Evening Star?
A) Mars (B) Mercury (C) Venus (D) Jupiter
13. Which of the following statements about Meteorites is incorrect?
A) Meteorites contain the traces of active life
B) Meteorites are larger meteors that reach the Earth
C) All meteorites were meteors when in flight
D) They become luminous by friction on entering the Earth's atmosphere

26. The first and last letters of English alphabet are coded as 1, the 2nd and 2nd last letters are coded as 2. Similarly 3rd and 3rd from last are coded as '3', then what is the code for 'INTERMISSION'?
- A) 9737591398913 B) 9137599129891312
C) 9317562357913 D) 9137591398891213
27. In a certain computer process the computation is done as follows:
- i) $p\$q+r$ means r is subtracted from the product of p and q .
ii) $p\Delta q\Box r$ means the product of p and q is divided by r .
iii) $p@q\div r$ means r is divided by the sum of p and q .
iv) $p\#qxr$ means q is multiplied by the sum of p and r .
v) $p\alpha q\beta r$ means p is subtracted from the sum of q and r .
If $17\Delta 15\Box 51=p$, then what is the value of $p@22\div 729$?
- A) 29 B) 27 C) 25 D) 51
28. My sister's daughter's grandmother's only child's only son is my
- A) nephew B) son C) brother D) cannot be determined
29. Pavani starts from her office for Railway Station. She travels 3 km towards north, then turns left and travels 4 km. Again travels 2 km after turning left. Again turns left and goes 1 km. Finally, turns to her left and travels 4 km to reach the railway station. How far (approximately in km) and in which direction is railway station from her office ?
- A) 5 km, south west B) 6 km, north east
C) 6 km, north west D) 6 km, south west
30. A boy observes the reflection of a wall clock in a mirror. The time observed by the boy in the mirror is 4 hours 20 minutes. What is the actual time shown on the clock ?
- A) 7 hrs 15 min B) 7 hrs 50 min C) 7 hrs 40 min D) 7 hrs 35 min
31. Out of 265 workers, 150, 160 and 140 are Fitters, Welders and Drillers respectively. 90 are Fitters and Welders, 85 are Welders and Drillers and 75 are Drillers and Fitters and 50 workers are Fitters, Drillers as well as Welders. What is the number of fitters who are not welders?
- A) 60 B) 115 C) 130 D) 15
32. 10 persons, a Professor, a Lawyer, a Doctor, a Scientist, an Accountant, a Grocer, two Computer Specialists and two Marketing Executives sit around a round table facing centre. The Professor sits opposite Lawyer. The Scientist and Doctor sit opposite each other. Two Marketing Executives sit opposite to each other with one of them sitting at immediate left of the Scientist. The Professor sits at immediate right of the Scientist.
- If the Grocer and the Accountant each have a Marketing Executive as his immediate neighbour, then which of the following statements is definitely **False** ?
- A) Two Computer Specialists are opposite each other
B) A Computer Specialist is an immediate neighbour of the Scientist
C) The Grocer is next to a Computer Specialist
D) A Computer Specialist is an immediate neighbour of the Lawyer.

33. A, B, C, D, E, F and G are 7 players to form two teams of two players each and one team of 3 players. A and B cannot be in the same team. B and C cannot be in the same team whereas E and F must be in the same team. G and D cannot be in the same team.

If B, E and F are members of a team, then which of the following cannot be the two teams of two members each ?

- A) AD, GC B) AG, CD C) AC, GD D) both A and B
34. Five cities P, Q, R, S and T are connected by different modes of transportation:
 i) P and Q are connected by boat as well as by rail (ii) S and R are connected by bus and by boat (iii) Q and T by air only (iv) P and R by boat only (v) T and R are connected by rail and by bus.
 If a person visits each of the places starting from P and gets back to P, which of the following places must he visit twice?
 A) Q B) R C) S D) T

35. By applying which of the following meanings of signs the value of:

$$700 - 10 \div \frac{1}{2} \times 35 + 70$$

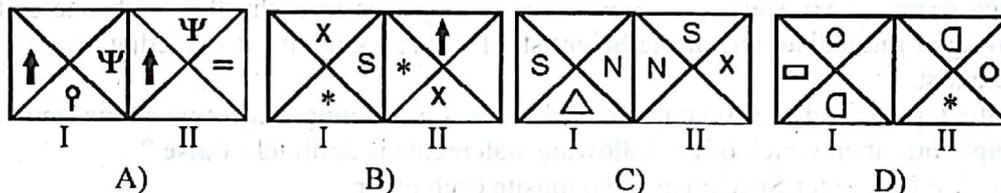
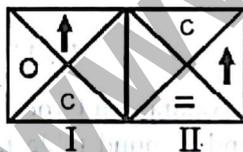
be zero ?

- A) x means \div , + means \times , \div means +, - means -
 B) x means \div , + means -, \div means \times , - means +
 C) x means +, + means -, \div means \times , - means \div
 D) x means \div , + means -, \div means \times , - means \times
36. Fill in the blank in the given matrix:

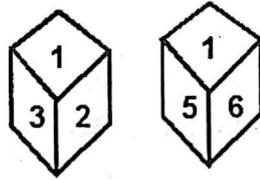
7B	5C	6B
3C	9B	19A
15A	17A	?

- A) 10C B) 12C C) 14B D) 16C
37. Figure I and II in the given set are related to each other. Find the set from the sets A, B, C and D that does not have relationship as in given set :

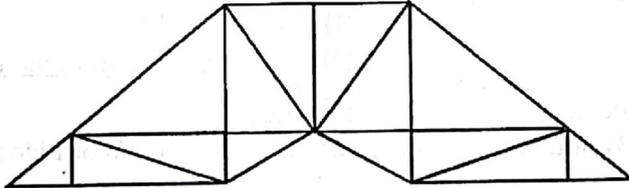
Given Figure



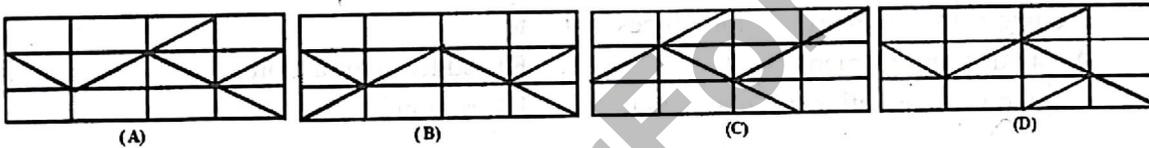
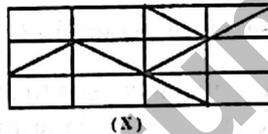
38. Two positions of a dice are given below. If 4 is at bottom, what number will be at top.



- A) 1 B) 2 C) 5 D) 6
39. Find the number of triangles in the given Fig:



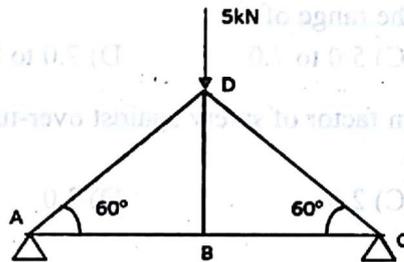
- A) 23 B) 27 C) 29 D) none of these
40. Find the water image of given Figure (X)



41. In Microsoft PowerPoint, _____ are boxes with dotted borders that contain content and reside within a slide layout.
 A) Auto Layout B) Object Holders
 C) Placeholders D) Text Holders
42. Members of these sites spend hours surfing pages, checking out other members, and exchanging messages, and they reveal a great deal of information about themselves.
 A) business-to-consumer e-commerce B) consumer-to-consumer e-commerce
 C) social networking D) online syndicators
43. The purpose of the primary key in a database is to
 A) unlock the database B) uniquely identify a record
 C) establish constraints on database operations D) provide a map of the data
44. In computer networking, WAN stands for
 A) Wire And Network B) Wire Accessible Network
 C) Widely Accessible Network D) Wide Area Network
45. In word processing and desktop publishing, the terms portrait and landscape refer to
 A) Paragraph Formatting B) Page Orientation
 C) Paper Size D) Page Layout

71. If the plasticity index of soil mass is zero, the soil is
 A) sand B) silt C) clay D) clayey silt
72. Which of the following is a Rock?
 A) quartz B) mica C) gypsum D) none of the above
73. Percentage of silica in a good brick earth lies between
 A) 5 to 10% B) 20 to 30% C) 50 to 60% D) 70 to 80%
74. The compacting factor test of cement concrete determine its
 A) compressive strength B) porosity
 C) degree of compaction under loads D) workability
75. If 'p' is the standard consistency of cement, the amount of water used in conducting the initial setting time test on cement is
 A) 0.65p B) 0.85p C) 0.80p D) 0.60p
76. King closers are related to
 A) doors and windows B) king post truss
 C) queen post truss D) brick masonry
77. Before testing setting time of cement one should test for
 A) soundness B) strength C) fineness D) consistency
78. Effective throat thickness of a fillet weld is
 A) 0.707 x size of weld B) 1.414 x size of weld
 C) a function of angle between fusion faces D) equal to the side of the fillet
79. If a shaft of diameter 'd' is subjected to a torque 'T', the maximum shear stress is
 A) $\frac{32T}{\pi d^3}$ B) $\frac{16T}{\pi d^2}$ C) $\frac{16T}{\pi d^3}$ D) $\frac{64T}{\pi d^4}$
80. The maximum deflection of fixed beam carrying a central load W is equal to
 A) $\frac{WL^3}{48EI}$ B) $\frac{WL^3}{96EI}$ C) $\frac{WL^3}{192EI}$ D) $\frac{5WL^3}{384EI}$
81. The number of independent equations to be satisfied for static equilibrium in a space structure is
 A) 2 B) 3 C) 4 D) 6
82. If the thickness of plate to be connected by a rivet is 16mm, then suitable size of rivet as per Unwin's formula will be
 A) 16mm B) 20mm C) 24mm D) 27mm
83. The slenderness ratio of a column supported throughout its length by a masonry wall is
 A) zero B) L C) 0.65L D) Infinity

97. If the compaction factor of a concrete is 0.90, then the workability according to Indian Standards is
 A) very low B) low C) medium D) high
98. If a composite bar of steel and copper is heated, then the copper bar will be under
 A) tension B) compression C) shear D) torsion
99. A long column has minimum crippling load when its
 A) both ends are hinged B) both ends are fixed
 C) one end is fixed and other end is hinged D) one end is fixed and other end is free
100. In the pin-jointed plane frame shown in figure, the force in the member BD is



- A) 5 kN B) $5\sqrt{2}$ kN C) 10 kN D) zero

Answer- Key

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

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