Question Paper and Answer Keys for the post of Junior Engineer (Civil)

Written Recruitment Examination for filling up of the post of Junior Engineer (Civil) in APWD was held on 26/02/2023 from 9.30 am to 11.30 am at various centres in Port Blair. The Question Paper and the Answer Keys of the written examination received from the agency engaged for conduct of examination is hereby published. The candidates may submit their claims & objections if any, through email to ceapwd.recruitment@gmail.com on or before 16th March, 2023 at 5.00 pm. The candidates are advised to include their Name & Roll Number along with the Question Numbers.

No claims & objections will be entertained beyond the date & time mentioned above.

Date of Exam: 26.02.2023

ANSWER KEY FOR WRITTEN EXAM FOR THE POST OF JUNIOR ENGINEER (CIVIL)

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Q.No	Key	Q.No	Key	Т	Q.No	Key	T	Q.No	Key
1	C	26	D	7	51	С	7	76	В
2	С	27	С		52	D		77	С
3	В	28	D		53	A	1	78	C
4	C	29	С		54	В	T	79	В
5	В	30	В		55	Á	1	80	В
6	В	31	A		56	A		81	В
7	D	32	A		57	Ĉ		82	В
8	С	33	В		58	D	Τ	83	A
9	D	34	С		59	Ċ		84	С
10	D	35	Ç		60	В		85	A
11	В	36	D		61	D)		86	D
12	A	37	В		62	A		87	D
13	В	38	A	, ,	63	A	Г	88	D
14	C	39	D		64	В		89	D ·
15	C	40	В		65	A		90	С
16	A	41	В		66	D		91	С
17	В	42	C		67	A		92	С
18	В	43	В		68	D		93	В
19	В	44	В		69	Α		94	С
20	В	45	A		70	Ç		95	С
21	C	46	В		71	Α		96	A
22	В	47	В		72	A		97	D
23	С	48	A		73	A		98	A
24	С	49	C		74	A		99	C
25	С	50	Α		75	C	\neg	100	В

1. Portland cement manufacture from pure which known as	te chalk and clay but free from iron-oxide is
(A) Quick setting cement (B) Rapid Hardening Cement	(C) White Cement (D) Low Heat Portland cement
2. The tendency of a stone is to split along	
(A) Texture (B) Fracture	(C) Cleavage (D) Structure
3. The compound of Portland cement which con years is	ntributes to the strength after two to three
(A) Tricalcium Silicate	(C) Tricalcium Aluminate
(B) Di-calcium Silicate	(D) Tetracalcium Alumino Ferrite
4. It itial setting of cement is caused due to	
(A) Tricalcium Silicate	(C) Tricalcium Aluminate
(B) Di-calcium Silicate	(D) Tetracalcium Alumino Ferrite
5. Seasoning of timber is essential to remove	
(A) Knots from timber	(C) Twisted fibre from timber
(B) Sap from timber	(D) Roughness of timber
6. In paints, the pigment is responsible for	
(A)Durability	(C) Smoothness
(B) Colour	(D) Glassy face
7. The most durable varnish is	
(A) Water varnish	(C) Turpentine varnish
(B) Spirit varnish	(D)Oil varnish
8. Plastic bitumen is generally used for	
(A) Road pavements	(C) Crack fillings
(B) Expansion joints	(D) Contraction joints
9. For a good building stone, its specific gravity s	-
(A) 1.5	(C) 2.2
(B) 1.7	(D) 2.7
10. The curvature of the earth's surface is taken in more than	nto account only if the extent of survey is
(A) 100 sq.km	(C) 200 sq.km
(B) 160 sq.km	(D) 260 sq.km
11. The main principle of surveying is to work	
(A) From part to the whole	
(B) From whole to the part	
(C) From lower level to the lower level	
(D) From lower level to the higher level	

12. Determining the difference known as	e in elevation between	two points on the surface of the earth is
(A) Differential levelling		(C) Simple levelling
(B) Levelling		(D)Longitudinal levelling
13. During levelling if back signal (A) The forward staff is at (B) The back staff is at low (C) The difference in level (D) The difference in level	lower point ver point cannot be ascertained	ght
14. The boundary of water of a	still lake represents th	ne
(A) Level surface	_	(C) Contour line
(B) Horizontal surface		(D) A concave surface
15. In setting up a plane table a (A) Levelling is done first (B) Centering is done first (C) Both levelling and cente (D) Orientation is done first	ering are done simulta	neously
 16. The angle of intersection of (A) Back tangent and forwa (B) Prolongation of back tan (C) Forward tangent and long of (D) Back tangent and long of (D) 	rd tangent ngent and forward tang ng chord	
17. The chord of a curve less th	an peg interval is knov	wn as
(A) Small chord		(C) Normal chord
(B) Sub-chord		(D) Short chord
18. An ideal vertical curve to jo	in two gradients is	
(A) Circular		(C) Elliptical
(B) Parabolic		(D) Hyperbolic
19. A steady uniform flow is thr	ough	
(A) A long pipe at decreasing	-	
(B) A long pipe at constant r		
(C) An expanding tube at co		
(D) An expanding tube at inc	reasing rate	
20. In fluids, steady flow occurs		
(A) Conditions of flow change	-	
(B) Conditions of flow do no		
(C) Condition of flow remain (D) Velocity vector remains (. ponii
21. The upper surface of the wei	r over which water flo	ws is known as
(A) Vein		(C) Sill
(B) Nappe		D)Orifice

22. The phenomenon occurring in an open channel	when a rapidly flowing stream abruptly
changes to a slowly flowing stream causing a disting	
(A) Water hammer	(C) Critical discharge
(B) Hydraulic jump	(D) Friction Head loss
23. Bernoulli's theorem is applicable in the case of (A) Compressible liquid in streamlined flow	
(B) Compressible liquid in turbulent flow	
(C) Incompressible liquid in streamlined flow	
(D) Incompressible liquid in turbulent flow	
24. The maximum bending moment for a simply sup load w/unit length is	pported beam with a uniformly distributed
(A) wl/2	(C) $w1^2/8$
$(B) wl^2/4$	(D) $wl^2/12$
25. The point of contraflexure is the point where	
(A) Bending moment changes sign	(C) Bending moment is minimum
(B) Bending moment is maximum	(D) Shear Force is zero
26. The moment of inertia of a circular section about	
$(A)\pi D^2/64$	(C) $\pi D^3/64$
(B) $\pi D^4/32$	$(D) \pi D^4/64$
27. The moment of inertia of a rectangular section of ing through C.G and parallel to its width is	•
$(A)BD^2/6$	(C) $BD^3/12$
$(B) BD^3/6$	$(D)B^2D/6$
28. The maximum deflection due to a load W at the financing flexural rigidity EI	ree end of a cantilever of length L and
$(A) WL^2/2EI$	(C) WL ³ /2EI
(B) WL ² /3EI	(D) WL ³ /3EI
29. The maximum deflection due to a uniformly distri	ibuted load w/unit length over entire
span of cantilever of length l and of flexural rigidity E	EI, is
(A)wl ⁴ /12EI	(C) wl 4/8EI
(B) $wl^4/3EI$	(D) wl ³ /3EI
30. The maximum deflection of a simply supported be W at the centre of the span, flexural rigidity being EI,	
(A) WL ³ /8EI	(C) $WL^3/24EI$
(B) WL ³ /48EI	$(D)WL^3/3EI$
(B) WE FIOLE	(2, 1. 2. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
31. The ratio of shear stress and shear strain of an elas	
(= -)	(C) Young's modulus (D) Modulus of Elasticity
(—)	
32. The moment diagram for a cantilever carrying a co	
\ / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(C) Parabola
(B) Rectangle	(D) Cubic parabola

33. How many components does a narbor	r comprise of?
(A)5	(C) 15
(B) 10	(D)20
34 is a type of utility-base	ed harbor.
(A) River harbour	(C) Commercial harbour
(B) Artificial harbour	(D) Canal harbour
35. The solid parallel platform in a harbou (A)Pier	or with berthing facility on one side only is: (C) Wharf
(B) Quay	(D) Jetty
36. Which of the below does not affect the	<u>-</u>
(A) Adequate access	(C) Sufficient airspace
(B) Air traffic potential	(D) Number of ground staff
37. Which of the following ensures standa worldwide?	rdization of Air Traffic Management services
(A)FAA	(C) IAO
(B) ICAO	(D)DGCA
 (A) Visual Flight Rules operator (B) Pilot 39. Transition curves are provided on the a (A) increase jerk to allowable levels (B) minimize the length of the horizont (C) simplify the laying out and construct (D) reduce jerk to allowable levels 	al curve
40. The ideal form of curve for the summit	curve is
(A) Spiral	(C) Circle
(B) Parabola	(D) Lemniscates
 41. Bituminous materials are commonly use (A) tensile and compression properties (B) binding and water proofing properties (C) shear strength and tensile properties (D) bond and tensile properties 	
42. The penetration test for bitumen is cond	ucted at a temperature of
(A)60°C	(C) 25°C
(B) 37°C	(D) 50°C
43. Alligator or map cracking is the common	n type of failure in
(A) concrete pavements	(C) gravel roads
(B) bituminous surfacing	(D) WBM construction
(2) orientations surracting	(D) W DIVI CONSTRUCTION

44. In highway pavements emulsions are mainly us	sed in
(A) surface dressing	(C) bitumen macadam
(B) patching and maintenance	(D) asphaltic concrete
45. If the total number of commercial vehicles pe	
mum percentage of commercial traffic to be survey	red for axle load is
(A)15	(C) 25
(B) 20	(D)30
46. Bitumen is derived from	
(A) destructive distillation of coal tar	(C) fractional distillation of petroleum
(B) destructive distillation of petroleum	(D) naturally occurring ores
47. As per IS 456 – 2000 for the design of reinforce	ed concrete beam, the maximum allowable
shear stress (τ_{max}) depends on the	
(A) grade of concrete and grade of steel	
(B) grade of concrete only	
(C) grade of steel only	
(D) grade of concrete and percentage of reinforce	ement
48. The lateral ties in a reinforced concrete rectangused to	gular column under axial compression are
(A) avoid the buckling of the longitudinal steel v	inder compression
(B) provide adequate shear capacity	muor compression
(C) provide adequate confinement to concrete	
(D) reduce the axial deformation of the column	
49. In a plate girder, the web plate is connected to the of the fillet welds is designed to safely resist	ne flange plates by fillet welding. The size
(A) the bending stresses in the flanges.	•
(B) the vertical shear force at the section.	
(C) the horizontal shear force between the flange(D) the forces causing buckling in the web.	s and the web plate.
50. Which of the following elements of a pitched resists lateral load parallel to the ridge?	
(A) bracings	(C) truss
(B) purlins	(D) columns
51. A steel beam supporting loads from the floor slab	as well as from wall is termed as
(A)Stringer beam	(C) Spandrel beam
(B) Lintel beam	(D) Header beam
52. The diameter of longitudinal bars of a column sho	ould never be less than
(A) 6 mm	(C) 10 mm
(B) 8 mm	(D) 12 mm
53. Which of the following is a type of Chemical We	
(A) Oxidation	(C) Abrasion
(B) Wedging	(D) Temperature effect

- 54. When Cu > 4 and Cc lies between 1 and 3 the soil can be classified as
 - (A) Uniformly graded soil

(C) Gap graded soil

(B) Well graded soil

(D) Coarse-grained soil

55. Match the following:

Compaction equipment's		Usage
1) Tampers	i.	for cohesive and non-cohesive soils
2) Pneumatic tyred rollers	ii.	for clays
3) Sheep foot roller	iii.	For confined trenches
4) Vibratory compactors	iv.	For granular soils

$$(A) 1 - iii, 2 - i, 3 - ii, 4 - iv$$

(C)
$$1 - iii$$
, $2 - ii$, $3 - iv$, $4 - i$

(B)
$$1 - iv$$
, $2 - iii$, $3 - ii$, $4 - i$

(D)
$$1 - ii$$
, $2 - i$, $3 - iii$, $4 - iv$

56. Soil is said to be highly permeable when

(A) K >
$$10^{-1}$$
 cm/sec
(B) K > 10^{-3} cm/sec

(C)
$$K < 10^{-1}$$
 cm/sec

(B)
$$K > 10^{-3}$$
 cm/sec

(C)
$$K < 10^{-1}$$
 cm/sec
(D) $K < 10^{-3}$ cm/sec

57. The symbol 'SM' indicates

(A) Sandy silt

(C) Silty sand

(B) Medium silt

(D) Medium sand

58. Identify the INCORRECT pair from the following

- (A) Alluvial soils Transported by running water
- (B) Lacustrine soils Deposited at the bottom of lakes
- (C) Talus soil transported by gravitational force
- (D) Loess soil transported by glaciers
- 59. If the actual observed value of standard penetration resistance N is greater than 15 in a fine sand layer below water table, then equivalent penetration resistance will be

(A)
$$15 + \frac{(N+15)}{2}$$

(C)
$$15 + \frac{(N-15)}{2}$$

(A)
$$15 + \frac{(N+15)}{2}$$

(B) $15 - \frac{(N+15)}{2}$

(D) 15 +
$$\frac{(15-N)}{2}$$

60. Match the following

Type of Boring		Usage
1) Auger boring	I.	For drilling holes
2) Rotary drilling	II.	Advancing holes in the ground
3) Core drilling	III.	drilling holes in clay
4) Percussion drilling	IV.	Sampling for highways, railways etc.,

		11 n 2 11 n	37	4 (
(A)	IV	I	111	II	
(B)	IV	Ш	I	II	
(C)	II	III	I	IV	
(D)	Ī	Ħ	Ш	IV	

				·		(021 11)
pass through 4.75n	nm and 75 µ sie	ves, re	spect	ss 1000 g showed tha tively. The liquid limi e 55% and 25% respe	t and plastic	limits of the
(A)GC (B)SM	_			(C) GM (D) SC		·
62. In water treatme	ent, slow sand fi	Iters wi	hen d	compared to rapid sand		
	minated effluent ninated effluent			(C) Equally co (D) Cannot	ntaminated e	ffluent judged
63. The presence of (A) Argyria		łrinkin <u>į</u>	g wai	ter causes (C) Anaemia		
(B) Hypertensio	n	• •		(D)Blue baby	disease	
64. Manhole covers (A) strengthen the (B) make entry of (C) for architecture (D) prevent falling falling for the Charmeasuring in Group	ne cover convenient ural reasons ng of cover into a	a manh	ole	up – A with the corr	esponding to	est used for
	Group A		Altei s	Group B		
	P. Color		1.	Nephelometer		
	Q. Turbidity R. Ph		2. 3.	EDTA Tintometer		
	S. Hardness		4.	Potentiometer		
•	(A) (B)	P 3 4	Q 1 3	R S 4 2 1 2		

2

4

(C) W.C. area(D) Courtyard area.

(C) 5% of the total cost (D) 1% of the total cost

(C) Height, breadth, length (D) Length, height, breadth

3

3

(C)

(D)

68. Pick up the item of work NOT included in the plinth area estimate

(A) 20% of the total cost

(B) 10% of the total cost

(B) Breadth, length, height

(A) Wall thickness

(B) Room area

67. The order of booking dimensions is (A) Length, breadth, height

2

quire water in construction and these charges are generally added at the rate of about

1

66. While analysing the cost of a building, water charges are added on those items which re-

69. The unit of measurement for a	half b	rick w	all is	:		
(A) Square metre				(C) metre		
(B) Cubic metre	(B) Cubic metre					
70. The expected out turn for earth	work	in exc	avati	on in ordinary soil per mazdoor per day is		
(A) 1.00 cubic meter				(C) 3.00 cubic meter		
(B) 2.00 cubic meter				(D) 4.00 cubic meter		
71. The most reliable Estimate is						
(A) Detailed estimate				(C) Preliminary estimate		
(B) Plinth area estimate				(D) Cube rate estimate		
retrieve a certain value. What is the	over, e value	the der	nolis 1?	shed materials (like steel, bricks, etc) will		
(A) Scrap value				(C) Market value		
(B) Book value				(D) Potential value		
some tests on concrete/cement. Ma Group I P. Direct tensile strength			erty v	with the corresponding test. Group II 1. Cylinder splitting test		
Q. Workability of concret				Surface area test Vee – bee tests		
R. Bond between steel an		crete				
S. Fineness of cement				4. Fineness modulus test		
		-		5. Pullout test		
(A) (B) (C) (D)	1 5 2 2	Q 3 2 3 1	\$ 1 1 5	\$ 4 3 4 3		
74. The minimum cement content to sure is	be us	sed in l	Reinf	forced cement concrete for mild expo-		
(A) 300 kg/m^3 (B) 320 kg/m^3				(C) 340 kg/m^3 (D) 450 kg/m^3 .		
75. Nominal cover to main reinforce	ment i	in case	of sl	abs with mild exposure should be		
(A) 30 mm				(C) 20 mm		
(B) 25 mm				(D) 40 mm		
76. The individual variation in comnot exceed	pressi	ve stre	ngth	of three cubes in the sample should		
$(A) \pm 10\%$				(C) ±20%		
• •			(D) $\pm 25\%$			

77. Which of	f the following pairs are incorrect with	h reference to ordinary Portland cement?			
	 (i) Initial setting time - 30 minutes (ii) Final setting time - 10 hours (iii) Normal consistency - 10% (iv) All are correct 				
(A) iv (B) ii and	iii	(C) iii only (D) i and iii			
78. The most	commonly used admixture to acceler	ate the initial setting time of concrete is			
(A) Gypsu (B) Calciu	um m Carbonate	(C) Calcium Chloride (D) Calcium Ferrate			
79. A sand is than	said to be unsuitable for construction	on if it has a Fineness Modulus of more			
(A) 2.9 (B) 3.2		(C) 3.9 (D) 4.0			
80. Type of w	ork & Slump recommended				
	1. Concrete for road works 2. Ordinary RCC work 3. Mass concrete 4. Columns – retaining walls	Slump Recommended 20 - 28mm 50 - 100mm 75 - 175mm 12 - 25mm			
Which of the f	ollowing pairs are correctly matched				
(A) 1,3 and (B) 1 and 3	4	(C) 3 and 4 (D) 2 and 4			
81. In each que to the question BRIEF		which is <u>similar in meaning</u> (synonym)			
(A) Limited (B) Short		(C) Small (D) Little			
82. In each questo the question ARTIFICAL (A) Truthful	word.	which is <u>opposite in meaning</u> (antonym) (C) Solid			
(B) Natural		(D) Simulated			
83. Find the cor (A) Efficient (B) Treatment	•	(C) Beterment (D) Employd			
any will be in or	ne part of the sentence. The letter of s'D'. (Ignore the errors of punctuation	* *			
(A) An India (B) laden wit	n ship th merchandise	(C) got drowned in the Pacific Ocean.(D) No error			

(A) 6.25 (B) 6.5 (C) 6.75 (B) 6.5 (D) 7 86. Which one of the following is not a prime number? (A) 31 (B) 61 (C) 71 (B) 61 (D) 91 87. What should come in the place of question mark in the following series? 3, 8, 6, 14, 7, 20 (A) 11 (B) 10 (C) 8 (D) 9 88. Find out which of the figures (1), (2), (3), and (4) can be used to complete the figure (2), (3), (4) (A) 1 (B) 2 (C) 3 (D) 4 89. Arrange the words given below in a meaningful sequence. 1. Police 2. Punishment 3. Crime (A) 3, 1, 2, 4, 5 (B) 1, 2, 4, 3, 5 (D) 3, 1, 4, 5, 2 90. Choose the alternative which closely resembles the water image of the given combination. A 1 M3 b (1) Y I W3 P (3) Y I W3 P (4) Y I W8 P (A) 1 (B) 2 (C) 3 (D) 4 91. In which state was the country's first high-quality lithium reserve discovered? (A) Mizoram (B) Rajasthan (C) Jammu & Kashmir (D) Tamil Nadu			s of a cricket game, 0 overs to reach the			Vhat should be	the run
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(A) 1 (B) 2 (C) 3 (D) 4 89. Arrange the words given below in a meaningful sequence. 1. Police 2. Punishment 3. Crime 4. Judge 5. Judgement (A) 3, 1, 2, 4, 5 (B) 1, 2, 4, 3, 5 (D) 3, 1, 4, 5, 2 90. Choose the alternative which closely resembles the water image of the given combination. A 1 M 3 b (1) V I W 3 P (3) V J W 3 P (4) V J W E P (A) 1 (B) 2 (C) 3 (D) 4 91. In which state was the country's first high-quality lithium reserve discovered? (A) Mizoram (C) Jammu & Kashmir	88. Find	out which of th	ne figures (1), (2), (3	3), and (4) can	be used to co	omplete the fig	gure (X)
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(B) 1, 2, 4, 3, 5 90. Choose the alternative which closely resembles the water image of the given combination. A 1 M 3 b (1) V W 3 P (3) V W 3 P (4) V W 6 P (A) 1 (B) 2 (C) 3 (D) 4 91. In which state was the country's first high-quality lithium reserve discovered? (A) Mizoram (C) Jammu & Kashmir		4. Judge	5. Judgement				
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(A) Mizoram (C) Jammu & Kashmir	` '			, ,			
	91. In whic	h state was the	country's first high	-quality lithiu	m reserve dis	covered?	
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92. In which city, for the first time, India an to nuclear, chemical, and biological terrorist	d the US organized 'Exercise Tarkash' in response tattacks?		
(A) Kanpur (B) Ajmer	(C) Chennai (D) Bikaner		
93. The ratio of width to its length in our Na	ational flag is		
(A) 3:5 (B) 2:3	(C) 2:4 (D) 3:4		
94. The Central Building Research Institute	of CSRI is located at.		
(A) Delhi (3) Chennai 95. Which among the following is NOT local	(C) Roorkee (D) Kanpur ted in Andaman & Nicobar Island?		
(A) Mahatma Gandhi Marine National Pa(B) Campbell Bay(C) Guindy National Park(D) North Button Island National Park	ark		
96. Which of the following is the official lan	guage of Andaman and Nicobar Island?		
(A) Hindi (B) Tamil	(C) Telugu (D) Bengali		
97. The capital of the Andaman and Nicobar lowing part of Andaman Island?	Islands Port Blair is located in which of the fol-		
(A) Middle Andaman (B) North Andaman	(C) Little Andaman (D) South Andaman		
98. Which one is the state bird of Andaman N	licobar Islands.		
(A) Wood Pigeon(B) Woodpecker	(C) Common Blackbird (D) Stock dove		
99. Which one is the state animal of Andamar	n Nicobar Islands?		
(A) Platypus (B) Tapir	(C) Dugong (D) Manatee		
100. Which Island contains the only active vo	lcano in South Asia?		
(A) Smith Island (B) Barren Island	(C) Neil Island (D) Narcondam Island		