

Bihar Public Service Commission, Patna

Advt. No. 32/2024 (Civil Engineering-II, Paper-VI)

Assistant Engineer, Civil Written (Objective) Competitive Examination

Final Answer key (Set-A)				
Question No.	Ans. Key		Question No.	Ans. Key
1	А		26	D
2	В		27	Deleted
3	С		28	С
4	В		29	А
5	А		30	А
6	D		31	А
7	А		32	D
8	В		33	С
9	А		34	А
10	D		35	D
11	D		36	D
12	В		37	А
13	А		38	С
14	А		39	D
15	С		40	D
16	С	1	41	D
17	D		42	D
18	D		43	С
19	С	1	44	D
20	Deleted		45	В

Question No.	Ans. Key	Question No.	Ans. Key
21	A	46	С
22	A	47	С
23	A	48	D
24	D	49	С
25	В	50	С

	(Se	et B)	
Question No.	Ans. Key	Question No.	Ans. Key
1	В	26	А
2	A	27	D
3	В	28	А
4	D	29	С
5	D	30	A
6	A	31	В
7	D	32	В
8	В	33	В
9	D	34	A
10	D	35	В
11	С	36	В
12	С	37	Deleted
13	D	38	А
14	В	39	С
15	С	40	А
16	А	41	В
17	Deleted	42	D
18	D	43	В
19	D	44	A
20	D	45	В
21	A	46	A
22	A	47	D
23	A	48	А
24	D	49	С
25	A	50	D

(Set-C)				
Question No.	Ans. Key	Question No.	Ans. Key	
1	D	26	В	
2	В	27	D	
3	В	28	D	
4	Deleted	29	С	
5	В	30	A	
6	С	31	В	
7	A	32	В	
8	С	33	С	
9	D	34	А	
10	D	35	В	
11	D	36	В	
12	С	37	В	
13	Deleted	38	С	
14	С	39	С	
15	В	40	D	
16	В	41	A	
17	С	42	С	
18	С	43	A	
19	С	44	D	
20	В	45	С	
21	С	46	A	
22	D	47	С	
23	С	48	С	
24	В	49	D	
25	В	50	D	

(Set-D)				
Question No.	Ans. Key	Question No.	Ans. Key	
1	А	26	В	
2	Deleted	27	В	
3	В	28	В	
4	С	29	С	
5	D	30	С	
6	С	31	В	
7	D	32	A	
8	С	33	A	
9	В	34	В	
10	D	35	A	
11	С	36	С	
12	С	37	A	
13	А	38	A	
14	С	39	В	
15	В	40	Deleted	
16	С	41	A	
17	А	42	С	
18	В	43	С	
19	D	44	В	
20	D	45	В	
21	А	46	В	
22	В	47	A	
23	В	48	D	
24	С	49	A	
25	С	50	В	

	Question Sequ	ience	as per Set- A	
Set-A	Set-B		Set-C	Set-D
7	10		3	4
8	12	1 [7	19
9	42	1 [24	11
11	2	1 [12	15
15	41	1 [17	49
20	37		13	40
21	13		15	29
25	15	1 [34	7
27	17	1 [4	2
39	6	1 [29	3
43	14	1	49	38
44	25	1 [14	18
47	3		1	41

Reasons as per Set-A

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Q. No. 07-	No change.
Reason :-	Canal falls are provided to destroy surplus energy.
Q. No. 08-	The Provisional answer is option 'C'. But the correct answer is option 'B'.
Reason :-	For the derivation of equation for the hydraulic jump in a rectangular channel in terms of conjugate depths and initial Froude number continuity and momentum equation are used.
Q. No. 09-	No Change.
Reason :-	The highest CBR Value is required for sub-grade.
Q. No. 11-	No Change.
Reason :-	Generally hydroelectric power plants are multipurpose to justify its cost.
Q. No. 15-	No Change.
Reason :-	As per CWC, MoWR, GOI recommendation.
Q. No. 20-	Deleted.
Reason :-	The question is confusing i.e. it is saliant about the type of Dimension of the soak pit i.e. whether it is its length, width or
	Depth.
Q. No. 21-	No Change.
Reason :-	Transition zone is provided in zoned embankment for preventing piping through cracks.
Q. No. 25-	No Change.
Reason :-	The purpose of a travel time and delay study is to evaluate the quality of traffic movement along a route and determine the
	Locations type and extent of traffic delays by using a moving test vehicle.
Q. No. 27-	Deleted.
Reason :-	The question is confusing i.e. it should be either most efficient theoretical channel (Option-C) section or practical channel
	section (Option-D).

Q. No.	39-	The Provisional answer is option 'B'. But the correct answer is option 'D'.
Reason	:-	When climbing a upgrade, the overtaking vehicle has less
		acceleration to complete the maneuver requiring a longer
		distance to safely overtake. On a downgrade, the overtaking
		vehicle can accelerate more readily, potentially reducing the
		required overtaking sight distance.
Q. No.	43-	No Change.
Reason	:-	A detention basin for flood control is provided with controlled
		outlet and spillway.
Q. No.	44-	No Change.
Reason	:-	Source: Waste water engineering by Metcalf & Eddy.
Q. No.	47-	No Change.
Reason	:-	For class A pan, Pan coefficient = Kp=0.7
		Therefore, volume of water evaporated in a month of 30 days in
		m ³ will be equal to $0.70 \times 80 \times 1000 \times 15 \times 0.5/100 \times 30 = 126000 \text{ m}^3$.
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