Question Booklet and Answer Key For Recruitment Test Held on 21.11.2015 (Evening)

Post: SDE (CIVIL/PUBLIC HEALTH)

1.	ਜ਼ਖ਼ਮਾਂ ਤੇ	ਮੁਹਾਵਰਾ ਪੂਰਾ ਕਰੋ:		
	(A) ਮਲ੍ਹਮ ਲਾਉਣਾਂ		(B) ਘਿਓ ਲਾਉਂਣਾ	
	(С) ਨਮਕ ਛਿੜਕਣਾ		(D) ਪਾਣੀ ਪਾਉਂਣਾ	AT AT
2.	ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਸ਼ੁੱਧ	ਵਾਕ ਚੁਣੋ:		
	(A) ਮੁੰਡੇ ਦੌੜਦੇ ਹੈ	February 27 Syndonia	(B) ਮੁੰਡੇ ਦੌੜਦਾ ਹੈ	
	(C) ਮੁੰਡਾ ਦੌੜਦੇ ਹਨ		(D) ਮੁੰਡੇ ਦੌੜਦੇ ਹਨ	Water Committee
3.	ਸ਼ੁੱਧ ਸ਼ਬਦ-ਜੋੜ ਚੁਣੋ:			
	(A) ਸੇਹਤ	(B) ਸੇਅਤ	(C) ਸਿਹਤ	(D) ਸੇਹਤਿ
4.	'ਮਲਵਈ' ਕੀ ਹੈ?			
	(A) ਭਾਸ਼ਾ	(B) ਉਪ-ਭਾਸ਼ਾ	(C) ਟਕਸਾਲੀ ਭਾਸ਼ਾ	(D) ਖੇਤਰ
5.	ਵਿਸ਼ੇਸ਼ਣ ਦੀਆਂ ਕਿੰਨੀਆਂ	ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ ਹਨ:		
	(A) ਪੰਜ		(C) ਸੱਤ	
Direc	tions (Q. No. 6 to 8)	: Mark the correct of	opposite of the given v	vord out of the four
6.	Remonstrate:			
	A) Accept	B) Remnant	C) Protest	D) Remorse
7.	Remorseful A) Contrite	B) Remarkable	C) Unrepentant	D) Remediable
8.	Snug			
	A) Bleak	B) Snooze	C) Snoop	D) Bright
	tions (Q.No. 9-10): Ma		osition to be filled in	the blanks:
9.	Suresh is deliberating A) of	the matter. B) with	C) on	D) at
10.	He atoned the si	n by giving alms to th B) with	e poor. C) at	D) over
11.	The Flag Code of Ind	ia 2002 took effect fro	m:	
	A) 26 January 2005 C) 26 January 2004		B) 30 January 2003 D) 26 January 2002	
12.	The State Emblem o India on:	f the Government of	India was adopted by	the Government of
	A) 15 August 1948 C) 26 January 1949		B) 15 August 1947 D) 26 January 1950	
13.	Fundamental Rights of A) Part III of the Const. B) Part II of the Const. C) Part IV of the Const. D) Part V of the Const.	stitution of India titution of India stitution of India	are contained in:	2s Therwoll Andre Res C) Abults
14.	The Cabinet Secretaria A) the President of Ind C) the Home Minister	dia B) the	nder: Prime Minister of Indi Speaker of Lok Sabha	

15.	National Authority, Chemical Wea) was set up on:
	A) 15 August 1990C) 24 September 1999	B) 5 May 1997 D) 27 October 1998	Park Might All Co.
16.	According to the Constitution of Governor of a State if she/he is:		eligible to become the
	A) above 30 years of age C) above 40 years of age	B) above 35 years of age D) above 45 years of age	
17.	According to the statistics issued Network in the world with:	by the Govt. of India, Indi	a has the largest Posta
	A) 1,54,856 post offices	B) 2,54,867 post of	offices
	C) 3,54,867 post offices	D) 1,32,854 post	offices
18.	In terms of the commissioned rank Colonel (in Army) is equal to (in A) Commander in Navy and Air C B) Captain in Navy and Group Ca	terms of ranks): Commodore in Air Force ptain in Air Force	ices in India, the rank o
	C) Commander in Navy and WingD) Rear Admiral in Navy and Air		Ingligit (A.)
19.	year:		
	A) 1967 B) 1953	C) 1956	D) 1958
20.	Indian Council of Historical Resea A) 1950 B) 1952	arch was established by the (C) 1968	Government of India in: D) 1972
21.	The Chairman of the Seventh Cen	tral Pay Commission set up	in 2014 is:
	A) Mr. Ranjit Roy	B) Mr. Suresh Sin	ngh
	C) Justice Shri Ashok Kumar Mat	thur D) Shri Vivek Ra	ie tot (A
22.	The permanent Secretariat of the	SAARC is located at:	sparing and self
	A) Dhaka B) Kathmar		D) New Delhi
23.	Which of the following poets wr that tell of saddest thought":	ote this famous line- "Our s	sweetest songs are thos
	A) John Keats	B) William Wordsworth	Language Calif. A
	C) Lord Byron	D) P.B. Shelley	C Programs of CO
24.	The book "India Wins Freedom"	was written by:	
	A) Dr. Rajendra Prasad	B) Acharya Narendra De	ev
	C) Abul Kalam Azad	D) Dr. Zakir Husain	
25.	The first Woman Nobel Prize Win	nner was:	
	A) Valentina Tereshkova	B) Karoline Mikkelson	
	C) Marie Curie	D) Marma Estela 'Isabel	A) the Preside.

26.	Sports Authority (A) 1994	of India was set up B) 1981	p by Government of Inc C) 1989	dia in: D) 1984		
27.	The headquarters			D) 1764		
	A) Lausanne	B) Paris	C) Berlin	D) Rome		
28.	The Asian Develo A) New Delhi	pment Bank has i B) Manila	its headquarters at: C) Tokyo	D) Ottawa		
29.	Graminology is th A) Grammar	e study of: B) Germs	C) Gems	D) Grasses		
30.	Proxemics is the s A) a person's need C) a person's need	d for personal spa-	ce B) a person's D) a person's	need for money		
31.		ss of water is due conate	to the presence of: B) Magnesium bicarb D) Sodium bicarbona	oonate		
32.	Direct Action Can A) 1947	npaign launched b B) 1948	by Muslim League happ C) 1945	pened in: D) 1946		
33.	The Second Battle A) 1575	of Panipat was fo B) 1556	ought in: C) 1542	D) 1545		
34.	Which of the following leaders did preside over the inaugural session of the Constituent Assembly in India: A) Sachidanand Sinha B) B.R. Ambedkar C) B.N. Rao D) C. Rajagopalachari					
35.	Achanakumar San A) Jabalpur (Madł C) Monghyr (Biha	nya Pradesh)	at: B) Bilaspur (Chhattis D) Bhandara (Mahara			
36.	Introducing A to (parental uncle's so A) brother			ather's son's son and is B's D) uncle		
37.	travels 5 Km. to right. Car B trave	its left followed l ls 4 Km. to its r	by 6 Km. towards Soright then 6 Km. toward	Km. towards North. Car A uth and finally 8 Km. to its ds South and finally 17 Km. tially A was to the West of		
	A) 30 Km.	B) 25 Km.	C) 24 Km.	D) 35 Km.		
38.	In a certain langua ZODIAC coded in		ASUAL is coded as FI	BLPBX. How is the word		
	A) ZDIIBF	B) ZPDRAL	C) AOHRAC	D) ZDHRBF		

Directions: Study the following information and answer Q. Nos. 39 - 40. 7 cities Aland, Bali, Chambal, Deccan, Eluru, Fatehgarh and Garwa are connected by roads as:

One way roads from Aland to Eluru and Garwa; from Bali to Chambal and Fatehpur; from Chambal to Garwa and Fatehpur; from Deccan to Eluru and Bali, from Eluru to Chambal; from Garwa to Fatchpur; and from Fatchpur to Aland.

Two way roads are from Aland to Bali; from Bali to Eluru and from Deccan to Garwa. While travelling from one city to other, no intervening city should be visited more than once.

- The number of different routes to travel from Chambal to Deccan is: 39.
 - A) 1

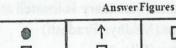
- D) 4
- What is the maximum number of cities that can be visited while travelling from 40. Garwa to Chambal?

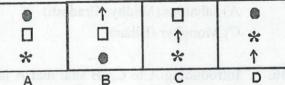
 - A) 5 B) 4 HO2100 B (C)
- C) 3
- In a town 65% people watched the news on T.V., 40% read newspaper and 25% read 41. newspaper as well as watched news on T.V. What is the percentage of people who neither watched T.V. nor read newspaper?
 - A) 5
- B) 10
- D) 20
- Replace the questions (?) marks, from amongst the given alternatives: 42.

CK	16	9	JR
OS	24	19	TX
KM	?	?	PV

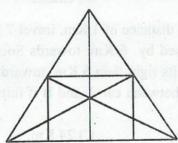
- A) 14, 21
- B) 21, 14
- C) 56, 84
- Select the Figure amongst the Answer Figures, that will continue the series 43. established by the four problem figures.

Problem Figures					
+	C	0	*		
C	+46	*	o dara (
#	*	+			
4	2	7 11 2 15 15	1		





Find the number of straight lines and triangles in the given figure: 44.



- A) 10 straight lines and 34 triangles
- C) 9 straight lines and 36 triangles
- B) 9 straight lines and 34 triangles
- D) None of the above

Six dice with their upper faces erased are as follows: 45. The sum of dots on opposite faces is 7 If even numbered dice have even number of dots on their top faces, what would be the total number of dots on the top faces of these dice? D) 10 B) 14 A) 18 A is elder to B while C and D are elder to E who lies between A and C. If C be 46. elder to B, which one of the following statements is definitely correct? B) C is elder to D A) A is elder to C D) E is elder to B C) D is elder to C On the basis of following information, answer the question. 47. (i) A, B, C, D, E, F and G are sitting on a wall facing East (ii) C is on the immediate right of D (iii) B is at the extreme end and has E as his neighbour (iv) G is between E and F (v) D is sitting 3rd from South end. Name the person who should change the place with C such that he gets 3rd place from the North end: C) F B) G A)E In the following series of letters, some definite order determines which of the next 48. two letters are in the correct order: AJKTUBILSVCHMRWDGNQXEFO?? D) ZA C) YZ B) PZ A) PY Find the odd one: 49. (iv) House (iii) Beam (ii) Roof (i) Wall D) (iv) C) (iii) B) (ii) A) (i) If R: Addition; S: subtraction; T: multiplication; U: division; 50. X: less than W: greater than; V : equal to ; Identify the correct alternative amongst the below according to above symbols: B) 16 R 2 S 4 V 6 R 8 A) 16 T 2 R 4 U 6 X 8 D) 16 U 2 R 4 S 6 W 8 C) 16 T 2 U 4 V 6 R 8 In databases, what does ACID stand for? 51. A) Atomicity, Concurrency, Isolation, Durability B) Atomicity, Consistency, Isolation, Duration C) Atomicity, Consistency, Indexing, Durability D) Atomicity, Consistency, Isolation, Durability

52.		B) Rename operation D) Projection operation
53.	www.google.com. A) Internet Relay Protocol	apping IP addresses to unique URLs such as B) Internet Protocol System D) Hypertext Transfer Protocol
54.	link between all pairs of nodes. Giver the number of direct links as a function	is a network topology in which there is a direct n a fully connected network with n nodes, express on of n : C) $\frac{n}{2}$ D) $\frac{n(n-1)}{2}$
		2 (1)
55.	This concept means that the program portions of these programs are brough A) Multiprocessing C) Spooling	s currently being executed are stored on disk and at into memory as needed: B) Virtual Storage D) Resource allocation
56.	called:	e number of processes completed per time unit is e C) Response time D) CPU utilization
57.	Which of the following represents the A) Analysis → Design → Coding →	life-cycle of software development? Testing → Operation and Maintenance Testing → Operation and Maintenance Testing
58.	If $(211)_x = (152)_8$, then the value of bas A) 6 B) 5 C) 7	
59.	Printer resolution is measured by the r A) characters per second (cps) C) pages per minute (ppm)	TOWN OF BUILDING THE PROPERTY.
60.	ACCUPATION OF THE PROPERTY OF	that helps to automate a frequently used series of
	A) Macro B) Utility	C) Template D) Wizard
61.		m ² C) gm/cm ² -sec D) cm ² /sec
62.		by surface tension of 0.075 N/m in a droplet of
		C) 0.4 N/cm ² D) 400 N/cm ²
63.		downward and altitude 'h' has its base lying on ntre of pressure below the free surface is at a
	A) h/4 B) h/3	C) $h/2$ D) $2h/3$

64.	Equation of continuity is based on the pri A) Mass B) Energy	nciple of conservation of : C) Momentum D) None of the above
65.	A) decreases B) i	of a bubble tube in surveying instrument: ncreases None of the above
66.	Intersection method of detailed plotting is A) forests B) urban areas	s most suitable for : C) hilly areas D) plains
67.		raph is radial from: socentre point nadir point
68.	The radius of curvature of an ideal transit A) inversely proportional to its length from B) directly proportional to its length from C) proportional to the speed of the vehic D) proportional to the superelevation	om the beginning m the beginning
69.	Cyclonic precipitation is caused by lifting A) pressure difference C) natural topographical barriers	g of an air mass due to: B) temperature difference D) all of the above
70.	Coefficient of variation is given by: A) Standard deviation	B) $\frac{Variancs}{msan} \times 100$
	C) standard deviation × 100	D) wariance × 100
71.		hydrograph is : One- fourth of basin log Equal to basin log
72.	Seepage through foundation in an earther A) Rock toe B) I C) Impervious cut off D) of	Horizontal blanket
73.		ding gradient, the stopping sight distance is: same D) dependent on the speed
74.	The percentage compensation in gradie curve of radius 760m is: A) 0.1% B) 1% C)1	nt for ruling gradient of 4% and horizontal 0% D) No compensation
75.		Warning sign None of the above

76.	In CBR test, the value of CBR is (A) 2.5mm penetration only (C) 7.5mm penetration only	Calculated at: B) 5.0mm penetration only D) Both 2.5mm and 5.0mm penetration
77.	The side slope of embankments for A) 1:1 B) 1:5:1	or a railway track is generally taken as: C) 2:1 D) 1:2
78.	Dog spikes are used for fixing rai A) Wooden sleepers C) Steel trough sleepers	B) CST-9 sleepers D) Concrete sleepers
79.	The equilibrium superelevation to speed of vehicle 'V' kmph is give	be provided on a curve of radius 'R' meters and en by:
	A) $\frac{GV^2}{127 R}$ C) $\frac{GV^2}{147 R}$ where 'G' is gauge.	B) $\frac{gv^2}{160 R}$ D) $\frac{gv^2}{217 R}$
80.	Which of the following values of A) 2 B) 5	F pH represents a stronger acid? C) 7 D) 10
81.	The alum, when added as a coagu A) Does not require alkalinity in B) Does not affect pH value of v C) Increases pH value of water D) Decreases pH value of water	water for flocculation
82.	The process in which the chloring A) pre chlorination C) super chlorination	ation is done beyond the break point is known as: B) post chlorination D) break point chlorination
83.		at and anaerobic in upper compartment ment and aerobic in upper compartment
84.	A) greater than or equal to latest B) less than or equal to latest ev C) equal to latest event time of D) less than latest event time of	event time of preceding node rent time of preceding node preceding node
85.	The time corresponding to mining A) crash time C) optimistic time	num total project cost is: B) normal time D) between normal time and crash time

86.	C) costliest critical activity	B) cheapest non-critical activity D) costliest non-critical activity
87.	is:	N/m ³ and water content 10%. The dry density of soil
	A) 18.6 kN/m^3 B) 20.0 kN	I/m^3 C) 22.0 kN/m ³ D) 23.2 kN/m ³
88.	If the plasticity index of a soil ma A) Sand B) Silt	c) Clay D) Clayey Silt
89.	The clay mineral with the largest A) kaolinite C) montmorillonite	swelling and shrinkage characteristics is: B) illite D) none of the above
90.	A) straight lineC) circular	B) parabolic D) elliptical
91.	Relationship between dry density	γ_d , percentage air voids n_a , water content 'w' and
	specific gravity 'G' of any soil is A) $\gamma_d = (1 + n_a) G \gamma_w / 1 + w G$	B) $\gamma_d = (1 + n_a) G \gamma_w / 1 - wG$
	C) $\gamma_d = (1 - n_a) G \gamma_w / 1 + wG$	D) $\gamma_d = (1 - n_a) G \gamma_w / 1 - wG$
92.	The moisture content in a well so A) 4 to 6% B) 10 to 1	easoned timber is: 2% C) 15 to 20% D) 100%
93.	Which of the following trees yie A) Deodar B) Chir	ld hardwood ? C) Shishum D) Pine
94.	Le-chatelier's device is used for A) Setting time of cement C) Tensile strength of cement	B) Soundness of cement D) Compressive strength of cement
95.	The differential settlement in car A) 25mm B) 40mm	se of foundation on sandy soils should not exceed: C) 65mm D) 100mm
96.	The split tensile strength of M1 its compressive strength is:	5 grade of concrete when expressed as a percentage of
	A) 10 to 15% B) 15 to 2	20% C) 20 to 25% D) 25 to 30%
97.	Poisson's ratio u is given by:	g's modulus of elasticity E, bulk modulus K and $K(1+\mu)$ C) $E = 3K(1-2\mu)$ D) $E = 2K(1+\mu)$
98.	Weakest section in a fillet weld A) Throat of the fillet C) Side parallel to force	is: B) Smaller side D) Side perpendicular to force

99.	The state of pure shear stress is produced A) tension in one direction and equal com	pression in per	
	B) equal tension in two directions at rightC) equal compression in two directions atD) none of the above		Or coalliest critics 87. A soil just a bulk
100.	The variation of the bending moment varying load is:	in the portion	of a beam carrying linearly
	A) linear B) parabolic	C) cubic	D) constant
101.	The centre of gravity of a hemisphere of vertical radius is:	radius 'r' from	its base measured along the
	A) 4r/3 B) 3r/2	C) 3r/8	D) 4r/7
102.	The moment of inertia of a circular disc of is:	radius 'R' and	mass 'M' about its diameter
	A) MR^2 B) $\frac{MR^2}{2}$ C)	$\frac{MR^2}{3}$	D) $\frac{MR^2}{4}$
103.	A cylinder will slip on an inclined plane of friction between plane and cylinder is: A) Less than $(1/3)$ tan θ C) Less than $(1/3)$ sin θ	B) Less than	"if the coefficient of static (2/3) $\tan \theta$ (2/3) $\cos \theta$
104.	The dimensions of centrifugal force are: A) M ¹ L ² T ⁻² B) M ¹ L ¹ T ⁻¹		D) M ¹ L ⁻¹ T ⁻²
105.	In SI units, the units of force and energy are	e: 13 (8	
	A) Newton and Watt	B) Dyne & N	ewton
	C) Newton & Joule	D) Kg- wt. as	nd Joule
106.	A pin-jointed plane frame is unstable, if:		
	A) $(m + r) < 2j$	B) $m + r = 2$	
	C) $(m+r) > 2j$	D) None of th	
107.	The degree of kinematic indeterminancy of A) $2j-r$ B) $3j-r$ where 'j' is the number of joints and 'r' is r	C) j - 2r	D) j - 3r
108.	The Castigliano's second theorem can be used. A) in statically determinate structures only. C) at the point under the load only.	sed to compute B) for any	deflections:
09.	Effects of shear force and axial force on pla respectively to:		activité à des la company de l
	A) Increase and decrease	B) Increase	and increase
	C) Decrease and increase		e and decrease

110.	Efficiency of	a riveted joint, havir	ng the minimum pitch a	s per BIS: 800, is:
	A) 40%	B) 50%	C) 60%	D) 70%
111.	The slendern	ess ratio of lacing bar	rs should not exceed:	
	A) 100	B) 120	C) 145	D) 180
112.	The maximum	m spacing of vertical	stiffners is:	
	A) 1.33 d	B) 1.25 d		D) 1.75 d
	where'd' is the	ne distance between f	lange angles.	
113.	Steel tanks ar	e mainly designed for	or:	
	A) Weight of		B) Wind pressure	
	C) Water pre	essure	D) Earthquake force	es
114.	The bracing p	provided in the plane	of end post is called:	
100	A) Sway bra		B) Portal bracing	
	C) Top latera	al bracing	D) Bottom lateral b	racing
115.	The strength of	of concrete after one	year as compared to 28	days strength is about:
	A) 10 to 15%		B) 15 to 20% more	
	C) 20 to 25%	% more	D) 25 to 50% more	
116. Approximate value of shrinkage strain in concrete, is:				
	A) 0.003	B) 0.0003	C) 0.00003	D) 0.03
117	5% of voids i	in a concrete mix wo	uld reduce its strength b	by about approximately:
	A) 5%	B) 10%	C) 30%	D) 20%
118.	A higher mod	dular ratio shows:		
		ompressive strength of	of concrete	
		mpressive strength o		
		nsile strength of stee		
		ensile strength of stee	시작하게 얼마에게 얼룩하게 먹었다. 이번 미팅되다	
119.		BIS recommendation		h of stress block for balanced
	A) 0.43 d		B) 0.55 d	
	C) 0.68 d		D) 0.85 d	
120.	Strain energy	stored in a member		*
	A) $0.5 \times street$	ess × volume	B) 0.5 × str	ain × volume
	C) $0.5 \times str$	ess× strain × volume	D) $0.5 \times str$	ress × strain

ANSWER KEY PUDA: SDE(Civil/ Public Health) 21.11.2015 (EVENING)

Q.No.	Ans.	Q.No.	Ans.	Q.No.	Ans.	Q.No.	Ans.
1	С	31	C	61	D	91	С
2	D	32	D	62	С	92	В
3	С	33	В	63	С	93	С
4	В	34	A	64	A	94	В
5	A	35	В	65	A	95	A
6	A	36	C	66	С	96	A
7	С	37	D	67	В	97	С
8	A	38	D	68	A	98	A
9	С	39	В	69	A	99	A
10	A	40	A	70	A	100	С
11	D	41	D	71	В	101	С
12	D	42	В	72	С	102	D
13	A	43	В	73	В	103	A
14	В	44	C	74	D	104	С
15	В	45	A	75	A	105	С
16	В	46	D	76	D	106	Α
17	A	47	В	77	С	107	В
18	В	48	A	78	A	108	В
19	C	49	D	79	A	109	D
20	D	50	В	80	A	110	С
21	С	51	D	81	D	111	C
22	В	52	В	82	D	112	С
23	D	53	C	83	D	113	С
24	С	54	D	84	A	114	В
25	С	55	В	85	D	115	С
26	D	56	A	86	A	116	В
27	A	57	A	87	В	117	С
28	В	58	С	88	A	118	В
29	D	59	В	89	С	119	A
30	A	60	A	90	В	120	С