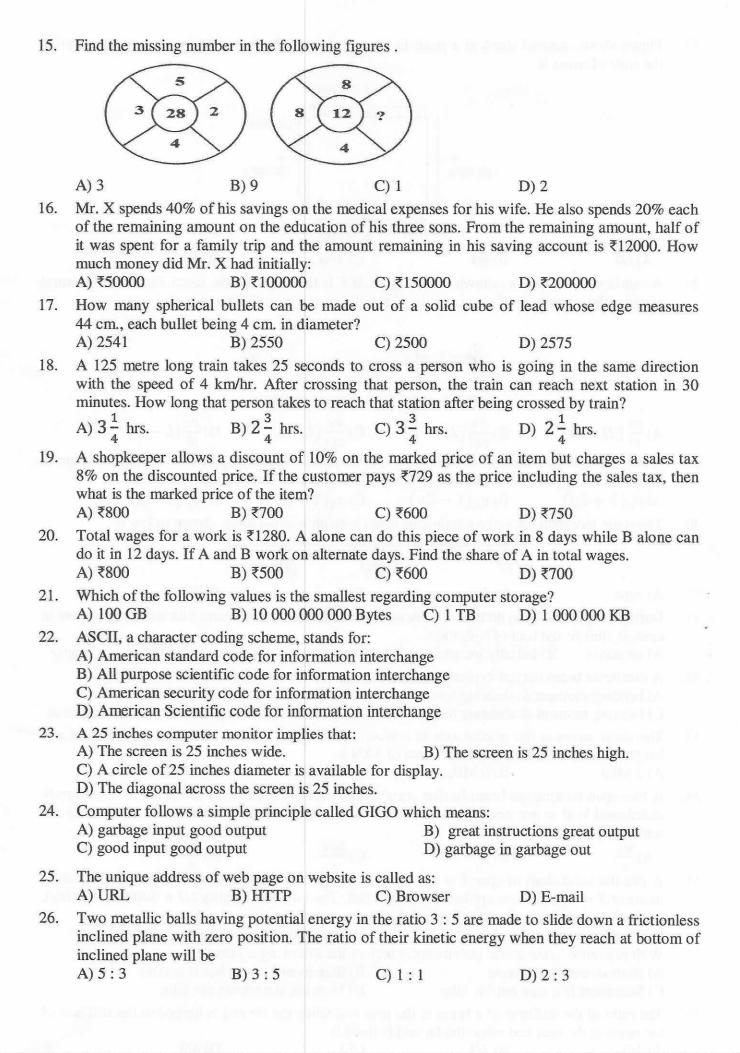
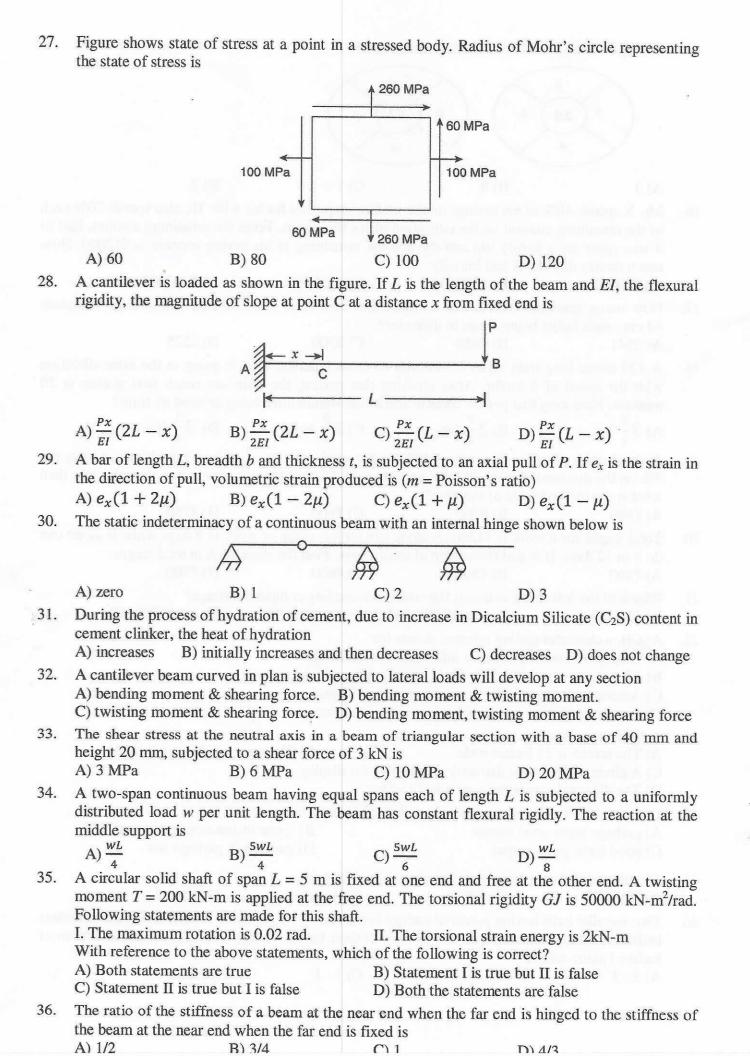
CHANDIGARH HOUSING BOARD POST: SDE (PUBLIC HEALTH) Question Booklet & Answer Key 28.01.2023 (MORNING)

1.	<u>Tepid</u>		en underlined word fro	m the options that follow:-
	A) Mild	B) Gentle	C) Harsh	D) Delicate
2.	Wary			om the options that follow:-
2	A) Careless	B) Angry	C) Cautious	D) Frightening
3.	In my opinion A)	or in the underlined part <u>a pencil is always</u> m B)	s of the sentence: ore preferable than C) D	
4.	Harish's behavior	our is subversive		
	A) of	B) to	C) with	D) about
5.	To be under the	harrow.		n the options that follow:- O) To be awarded for honesty
6.	Recently the te Council?	rms of which countrie		nanent member' of UN Security
	A) Gabon, GharC) India, Ireland		B) Ghana, India,D) Gabon, India	5/100-013-010-010-010-010-010-010-010-010-
7.	When did ISRO A) 1999	start International Cust B) 2004	omer Satellites Launchi C) 2009	ing? D) 2014
8.	About how long A) 7 km	is the Atal Tunnel? B) 9 km	C) 11km	D) 13km
9.	A) Universal HeB) Building a FaC) Public Health	ational Public Health Walth coverage: Everyon irer, Healthier World for is Where You Are Celebrating Cultures in	or Everyone	April 2023 is:
10.			ssroom program launch C) 1984	ed? D) 1989
11.	The 9 th term in t A) hEq	he alphabetic series: B) jIg	zYw, xWu, vUs, C) mOk	
. 12.	walks 10 m, agai	n he walks 10 m turnin	m a point 'S' and after of g to his left and finally ch direction is he from to C)17m N	walking 15 m turns to his left and walks 22 m turning to his left and the point 'S'. D) 13m NE
13.	is 6 th and Sapna'	s rank among girls is 3 nd, Ravi's rank among	is 12 th and Sapna's ran rd . In the class Sapna's	k is 8 th , Ravi's rank among boys rank is 52 nd from the other end. In of the following is Sapna's rank
1.4		1910 2 0.1 Wileses	*	D) None of the above
14.	the topmost floor Manager, Teacher second floor is a the lowermost floor above T. The one second floor?	r. The ground floor is not is numbered 5. Each of and Engineer, but not Manager. R is a Lawy for is an Engineer. P I who is a Teacher does	umbered 1, the first floor of them also has a differ anecessarily in the same er and he lives on the tives on the fifth floor. es not live on an odd-not	loor building, but not necessarily or is numbered 2, and so on until ent profession – Doctor, Lawyer, e order. The one who lives on the hird floor. The one who lives on S lives on the floor immediately umbered floor. Who lives on the
	A) S	B) P	C) T	D/O

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The modulus of rupture of concrete gives A) the direct tensile strength of the concrete B) the direct compressive strength of the concrete C) the tensile strength of the concrete under bending D) the characteristic compressive strength of the concrete Identify the *false* statement from the following, pertaining to the design of concrete structures. A) The assumption of a linear strain profile in flexure is made use of in working stress design, but not in ultimate limit state design. B) Torsional reinforcement is not required to be provided at the corners of simply supported rectangular slabs, if the corners are free to lift up. C) A rectangular slab, whose length exceeds twice its width, always behaves as a one-way slab. D) The 'load balancing' concept can be applied to select the appropriate tendon profile in a prestressed concrete beam subject to a given pattern of loads. Which one of the following factors does not affect the lateral buckling strength of a steel I-section undergoing bending about its major axis? A) Boundary conditions at the ends B) Radius of gyration about the major axis of the section C) Radius of gyration about the minor axis of the section D) Laterally unsupported length of the compression flange 40. The ultimate collapse load (P) in terms of plastic moment Mp by kinematic approach for a propped cantilever of length L with P acting at its mid-span as shown in figure, would be X $\frac{L}{2}$ $\frac{L}{2}$ $\frac{L}{2}$ A) $P = \frac{2M_p}{L}$ Soil has been compacted in an embankment at a bulk density of 2150kg/m³ and a water content 41. of 12%. The value of specified gravity of soil solids is 2.65. The water table is well below the . foundation level. The void ratio of the compacted soil is A) 0.42 B) 0.56 C) 0.25 D) 0.38 42. Quick sand condition occurs when A) The void ratio of the soil becomes 1.0 B) The upward seepage pressure in soil becomes zero C) The upward seepage pressure in soil becomes equal to the saturated unit weight of the soil D) The upward seepage pressure in soil becomes equal to the submerged unit weight of the soil A 6-m high retaining wall having a smooth vertical back face retains a layered horizontal backfill. Top 3m thick layer of the backfill is sand having an angle of internal friction, $\phi = 30^{\circ}$ while the bottom layer is 3m thick clay with cohesion factor, c = 20 kPa. Assume unit weight for both sand and clay as 18 kN/m³. The total active earth pressure per unit length of the wall (in kN/m) is A) 150 B) 216 C) 167 D) 190 44. A vertical triangular plane area, submerged in water, with one side contained in the free surface, vertex downward. Its latitude is h. The distance of the pressure center below the free surface is B) h/3C) 3h/4 The average rainfall for a 3-hour duration storm is 2.7 cm and the loss rate is 0.4 cm/h. The flood hydrograph has a base flow of 20 m³/s and produces a peak flow of 210 m³/s. The peak of a 3-h unit hydrograph is B) 105.50 m³/s C) 77.67 m³/s D) 70.37 m³/s A) $126.67 \text{ m}^3/\text{s}$ Zero hardness of water can be achieved by A) lime soda process B) ion exchange treatment C) excess lime treatment D) excess alum and lime treatment

47.	km/hour, and the desi 0.12. The estimated develop), and the valu respectively, be	gn co value	efficient of l of super-ele	ateral fr vation r	iction between tequired (if full	20 m. The design speed is 60 the tyre and the road surface is lateral friction is assumed to aper-elevation is provided) will,	
	A) 0.116 and 0.24	B) 0	0.077 and 0.3°	7 C)	0.094 and 0.24	D) 0.082 and 0.37	
48.	Bituminous materials (A) tensile and compres (C) binding and water (ssion	properties	l in high	way constructio B) shear str	n because of their good rength and tensile properties d tensile properties	
49.	The magnetic bearing the line AB is	of a li	ine AB is S 4	5° E and		is 5° West. The true bearing of	
	A) S 50° E	B) S	5 40° W	C)	S 40° E	D) S 50° W	
50.	100 m above sea level	. The forw linth.	back sight us ard sight rea	sed to es ding wit of the p	tablish height o h normally held	l arch at the known elevation of f instrument is an inverted staff l staff of 1.105 m is taken on a D) 98.790 m	
51.	The presence of silver	(Ag)	in drinking w			to Reduce of presenting later	
	A) argyria		ypertension		anaemia	D) blue baby disease	
52.	Match the Characteris Group-B.	tics o	f water in G	roup-A	with correspond	ling test used for measuring in	
			Group - A		Group - B	7	
		P.	Color	1.	Nephelometer		
		Q.	Turbidity	2.	EDTA		
		R.	pH	3.	Tintometer		
		S.	Hardness	4.	Potentiometer	The state of the state of	
53.	A) P-3, Q-1, R-4, S-2 C) P-1, Q-4, R-2, S-3 A well oxidized sewag A) Nitrites and Sulphu C) Less Ammonia and	3 ge will r	B) N	D) More An			
54.	C) Less Ammonia and H_2S but more nitrates and sulphates D) H_2S , CO_2 and water In a community of 1500 people water is supplied at 200 L/head/day. If BOD produced is 40 g/head/day and BOD loading rate for oxidation pond is 20 kg/ha/day. Assuming the depth of pond, $d = 2$ m and efficiency of pond = 80%, the BOD of the effluent will be A) 100 mg/L B) 150 mg/L C) 75 mg/L D) 50 mg/L						
55.	In determination of (Chemi	cal Oxygen	Demand	l, sewage is tit	rated with ferrous ammonium	
	sulphate using potassium dichromate as c sulphate as catalyst and inhibitor respec				in the presence	of silver sulphate and mercuric	
	sample after digestion is found. A) Potassium dichromate C) Mercuric Sulphate				Ferrous Ammor	nium sulphate	
56.	A sewer has a diamet	er of	250 mm and		• •	nile running full it has a mean	
	velocity of 0.8 m/s. I velocity when running A) 1.0 m/s	f both half f	diameter ar	nd slope inning's	are doubled, w	what will be the changed mean D) 1.8 m/s	
57.	The method of refuse (A) Incineration	dispos		burial in		led D) There is no such method	
58.	, 1 8						

59.		water is 0.5 mg/l to have a water if bleaching po B) 1.25 mg/l		mg/l. What dose of bleaching favailable chlorine? D) 2.188 mg/l	
60.		equivalent of 50,000 lit		00 gm and 60 gm, respectively, I waste water containing 1800 D) 1100	
61.		in water is caused by the	*	and Mg	
62.		water quality parameter		vater is	
63.		er A and B have pH valuidic than the sample B? B) 15	c) 100	pectively. How many times the D) 200	
64.	Use of coagulants su A) reduction of pH o C) no change in pH o		B) increase of pH o D) increased turbid		
65.	12m ³ /day/m ² , and it	is desirable to remove is an ideal sedimenta	particles that have se	k with an overflow rate of ettling velocity of 0.1 mm/sec. ntage of particles removal is D) 82%	
66.		on forecasting methods trical increase method. B) same value	s, arithmetical increas C) lesser value	se method gives than D) accurate	
67.		issible limit for fluoride B) 1.5 mg/l	CONTRACTOR CONTRACTOR AND CONTRACTOR	D) 1.0 g/l	
68.	, 0	ciency of chlorine incre e of contact nperature of water	, ,	Application of the production of the	
69.	reverse direction?	ving valves allows wat	er to flow in one dire	ection but prevents its flow in	
70.	A) sluice valveThe most suitable wayA) circle methodC) Hardy cross meth		C) pressure relief valve D) reflux valve ysis method for long and narrow pipes is B) equivalent pipe method D) electrical analogy method		
71.	Which of the following A) activated sludge to C) sludge digestion to				
72.	A) change in alignm	are provided in sewerage ent of sewer line vation of ground level	e system when there is B) change in size of		

73.	In sewage treatment, Chlorine is sometim						
	A) to avoid flocculationC) to avoid bulking of activated sludge	B) to increase biological activity of bacteria D) to help in grease separation					
74.	aeration and septic conditions B) reduction in waste purifying capacity C) destruction of aquatic flora and fauna D) toxicity of sewage causing interference	of the soil due to gross pollution of water due to sewage we with its treatment					
75.	Flocculating particles are to be produced	of raw water per minute for daily domestic supply. It by chemical coagulation. A column analysis indicated oduce satisfactory particle removal in a settling basin at ea for settling is C) 728 m ² D) 2100 m ²					
76.	All of the following are included in the so A) Education access and quality C) Healthcare access and quality	ocial determinants of health(SDOH) except: B) Genetics D) Economic stability					
77.	Vaccination against Covid 19 is an examt A) Agent Host interrupting factor C) Environment agent interrupting factor	B) Environment host interrupting factor					
78.	The most cost-effective strategy for healt A) Secondary prevention C) Primordial prevention	h promotion of a community is: B) Primary prevention D) Tertiary prevention					
79.	Human Development Index(HDI) was created. A) Economic growth is the only criteria to a B) Economic growth is not a criteria to a C) Economic growth along with people a development of a nation	o assess the development of a nation					
80.	The corner stone for delivery of healthcar A) Tertiary care hospitals C) Civil Hospitals	re services in India are: B) Primary health centres D) Secondary care centres					
81.	Food fortification is an intervention used to fight A) Deficiency of micro-nutrients like minerals & vitamins C) Acute infections B) Protein energy malnutrition D) All of these						
82.	The epidemiological study that assesses t A) Consistency and strength of the association C) Temporal relationship of the association	he causal relationship in an association must depict: iation B) Specificity and coherence of the association					
83.	Behavioral scientists search for a better understanding of many problems that are particularly relevant to public health professionals, including: A) Trauma and violence B) Stress and anxiety C) Substance abuse D) All of the above						
84.		of soil-transmitted helminth infections except: B) Plasmodium falciparum D) Ancylostomaduodenale					
85.							
86.	C) Increase demand of products in marke The National Family Health Survey for the A) Third round of health survey						
87.	C) Fifth round of health survey The major burden of non-communicable except	D) Second round of health survey diseases in India is contributed by all of the following					

88.	Screening for a disease in a population is a useful technique to: A) Detect the presence of disease before the symptoms appear B) Detect the seriousness of disease
	C) Assess the progress of disease D) None of these
89.	Sensitivity refers to a test's ability to designate: A) An individual with disease as positive B) An individual without disease as negative C) Both of the above D) None of the above
90.	In the national immunisation schedule, following vaccines are administered at birth or as early as possible, except A) BCG B) OPV C) DPT D) Hepatitis B
91.	All of the following are examples of immunising agents except: A) Tetanus toxoid B) Covishield C) Anti-rabies immunoglobulins D) Erythromycin
92.	The biggest source of water contamination in India is: A) Chemicals from factories B) Untreated sewage C) Oil leaks D) Improper agricultural practices
93.	While calculating the incidence of a disease, the numerator refers to:A) Number of new cases who develop a specific disease or a health condition during specified time period
	B) Number of current cases (both new and pre-existing) who have a disease or health condition during specified time periodC) Both of the aboveD) None of the above
94.	The most widespread micronutrient condition worldwide is: A) Vitamin A deficiency B) Iron deficiency anaemia C) Iodine deficiency D) Vitamin D deficiency
95.	In a normal distribution curve, the percentage of scores that are covered within 2 standard deviations are: A) Around 95% B) Around 98% C) Around 96% D) Around 99%
96.	Feedback in a communication process refers to: A) Response of a sender to the message that has been delivered B) Response of the receiver to the message that has been delivered C) Response of a sender to the message that has to be delivered D) Response of a receiver to the message that has to be delivered
97.	The non-modifiable risk factors for stroke include: A) Hypertension B) Family History of stroke C) Smoking D) Diabetes
98.	National oral health program (NOHP) was launched by Ministry of Health and Family Welfare, Government of India in: A) FY 2015-2016 B) FY 2014-2015 C) FY 2016-2017 D) FY 2017-2018
99.	The current focus of family planning program is: A) To specifically target the women for family planning measures B) To offer a basket of family planning choices to both men and women C) To specifically prevent unintended pregnancies D) To specifically target mistimed pregnancies
100.	The main components of Ayushman Bharat Digital Mission include all of the following except: A) ABHA number B) Unified Health Interface C) Hospital Equipment Registry D) Healthcare Professional Registry

Chandigarh Housing Board Post: S. D. E Public Health

Answer Key (A-Series) :28.01.2023 (Morning)

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