## CHANDIGARH HOUSING BOARD POST: JE (PUBLIC HEALTH) Question Booklet & Answer Key 28.01.2023 (EVENING)

1.	Germane	ynonym for the given	underlined word in	om the options that follow:-		
	A) Light	B) Bright	C) Quick	D) Relevant		
2.	Choose the correct as	ntonym for the given	underlined word fro	om the options that follow:-		
	<u>Tenuous</u> A) Brittle	B) Modest	C) Betrayer	D) Strong		
2						
3.	options that follow:-			mark the correct answer from the		
	Gopal did not get	promotion because		r than other employees.		
	A)	B)	C)	D)		
4.	Choose the correct p	reposition to be filled cotton and clo		he options that follow:-		
	A) of	B) in	C) about	D) over		
5.	Choose the correct m	neaning of the given u	nderlined idiom fro	m the options that follow:-		
	A bull in a China sho					
		rough & clumsy where	e skill and care are	required		
	B) An ugly person	1 2 1 1				
	C) A virtuous person	always critical of othe	rs			
6.				a record:		
0.	For its recent term in UN Security Council, India had secured a record:  A) 172 of the 193 votes  B) 172 of the 194 votes					
	C) 184 of the 192 vo		D) 184 of the 1			
7.		Space India Limited (1	NSIL) established?			
17	A) 2018	B) 2019	C) 2020	D) 2021		
8.	On which river is the	master piece Bogibe	el Bridge situated?			
	A) Brahmaputra Rive			nada D) Kaveri		
9.			, about what percen	at of tree canopy as a forest make it		
	A) 22	B) 18	C) 15	D) 10		
10.		***	20	e content for 'Engineering' courses		
	on SWAYAM?					
	A) NIOS	B) NITTTR	C) NPTEL	D) UGC		
11.	36 vehicles are parke	ed in a parking lot in a	a single row. After t	the 1 <sup>st</sup> scooter there is one car, after		
	2 <sup>nd</sup> scooter there are two cars, after 3 <sup>rd</sup> scooter there are three cars and so on. Find out the					
	number of car in the second half of the row.					
	A) 17	B) 15	C) 12	D) 10		
12.	The next two terms i	n the given alphabetic	series: bbCCC, ccc	cEE, eeHHH, hhhLL, are:		
	A) IIPPP and qqqVV	7	B) IIIQQ and q	· ·		
	C) IIQQQ and qqqW	W .	D) IIIPP and qo	qvvv		
13.	If 'A $\times$ B' means th	at A is sister of B, 'A	$A \div B'$ means that	A is daughter of B, 'A-B' means		
	that A is son of B. Then how is P related to S in the relationship: $P-Q \times R \div S$ ?					
	A) Brother	B) Son	C) Grandson	D) Daughter's son		

14.	remaining faces. It is then cut into two halves along the plane parallel to the red faces. One piece is then cut into four equal cubes and the other one into 32 equal cubes.
	How many cubes have at least one face painted blue?
	A) 4 B) 14 C) 17 D) 20
15.	Six persons Anu, Arun, Aman, Arjun, Ashu and Akriti are working in an office. Each of them plays a different game viz. P, Q, R, S, T and U but not necessarily in the same order. Each of them got a different salary – 1000, 2000, 2500, 3000, 3500 and 4000, but not necessarily in the same order. Arjun gets a salary of 2500 and he plays game U. The one who play Q gets a salary of 3000. Aman plays game P and gets salary of 3500. The one who gets a salary of 1000 does not play game R or S. Akriti does not play Q or S but gets a salary of 2000. Ashu gets a salary of
	4000 and does not play game R. Arun does not get a salary of 1000. Who gets a salary of 3000?  A) Arun  B) Anu  C) Akriti  D) Aman
16.	Twelve years ago, the age of the father was three times the age of his son. After twelve years, father's age will be twice than of his son. The ratio of their present ages is  A) 4:7  B) 2:7  C) 4:3  D) 7:3
17.	Mr. Arun is on tour and he has ₹360 for his expenses. If he exceeds his tour by 4 days, he must cut down his daily expenses by ₹3. For how many days is Mr. Arun out on tour?  A) 15  B) 20  C) 40  D) 60
18.	12 engines consume 30 metric tonnes of coal when each is running 18 hrs. a day. How much coal will be required of 16 engines, each running 24 hrs. a day, it being given that 6 engines of former type consume as much as 8 engines of latter type?  A) 20 tonnes  B) 30 tonnes  C) 40 tonnes  D) 60 tonnes
19.	The length of rectangle is twice its breadth. If the length is decreased by half of the 10cm. and the breadth is increased by half of the 10cm., the area of the rectangle is increased by 5sq.cm more than 70sq.cm. Find the length of the rectangle.  A) 45cm.  B) 40cm.  C) 30cm.  D) 21cm.
20.	A pipe P can fill a tank in 12 minutes and another pipe R can fill it in 15 minutes. But, the 3 <sup>rd</sup> pipe M can empty it in 6 minutes. The 1 <sup>st</sup> two pipes P and R are kept open for double the 2.5 minutes in the beginning and then the 3 <sup>rd</sup> pipe is also opened. In what time is the tank emptied?
	A) 25 minutes B) 30 minutes C) 35 minutes D) 45 minutes
21.	<ul><li>In computer networking, WWW means:</li><li>A) World Wide Web and is a system of interlinked hypertext documents accessed via the Internet.</li></ul>
	<ul><li>B) World Wide Web and is a set of protocols used to access documents via internet.</li><li>C) World Wide Web and is a network of various types of computers that are physically connected to each other.</li><li>D) Wide World Web and is just another name for the Internet.</li></ul>
22.	Which of the following is NOT TRUE?
	<ul> <li>A) RAM means Read Accumulator Memory.</li> <li>B) MICR means for Magnetic Ink Character Recognition System.</li> <li>C) ROM means Read Only Memory.</li> <li>D) ASCII means American Standard Code for Information Interchange.</li> </ul>

23.	Why did virtualization l	poost the emergence	of Cloud computing?			
<ul> <li>A) Virtualization made it easier and cheaper to share resources between users.</li> <li>B) A virtual machine is more secure than a physical machine.</li> <li>C) Virtual machines have greater performance than their physical counterparts.</li> <li>D) Virtualization leads to better network utilization.</li> </ul>						
24.				lisk is used as an extension		
	of main memory.					
	A) Cache memory	B) Paging	C) Virtual memory	D) Associative memory		
25.	Which of the following	statements is correct	?			
	<ul><li>A) An Excel spreadshee</li><li>B) An Excel workbook</li><li>C) An Excel spreadshee</li><li>D) An Excel workbook</li></ul>	may contain only one t may contain multip	e pivot table. le workbooks.			
26.	Number of links in a 30	m metric chain is				
	A) 100	B) 150	C) 180	D) 200		
27.	4°10′ E. If the present d	eclination is 3°W, the	9°30'W in the year 1967 whole circle bearing of	, when the declination was the line is		
	A) 299°20′	B) 307°40′	C) 293°20′ I	O) 301°40′		
28.	A canal which is aligned A) Contour canal	d at the right angle to B) Watershed canal		D) Side slope canal		
29.			rain if the cross slope of the C) Between 25% and 6	he land is 0% D) More than 60%		
30.	The value of ruling grad		(RC recommendations is C) 1 in 20			
31.	Fish plate is in contact v	*	C) 1 III 20	D) 1 in 30		
31.		B) fishing plane	C) head of rail	D) foot of rail		
32.	In a shunting signal if the	. 01		D) foot of rail		
		B) Proceed	C) Proceed cautiously	D) Stop cautiously		
33.	The ratio of 5-day BOD			2) stop vactiously		
		B) 2/3	C) 3/4	D) 1.0		
34.	A municipal corporation is required to treat 1000 m <sup>3</sup> /day of water. It is found that an overflow rate of 20 m/day will produce a satisfactory removal of the discrete suspended particles at a depth of 3 m. The diameter (in meters, rounded to the nearest integer) of a circular settling tank designed for the removal of these particles would be  A) 2 m  B) 4 m  C) 8 m  D) 1.0  D) 1.0					
35.	In disinfection, which pathogenic bacteria?	of the following fo	orms of chlorine is mo	st effective in killing the		
	A) Cl	B) OC1	C) NH <sub>2</sub> C1	D) HOCl		
36.	Void ratio of soil mass (A) Never be greater than C) Take any value great	n unity	B) Be zero D) Take value between	0 and 1		
37.	Coarse grained soils are A) Drum roller	best compacted by B) Rubber tyred rolle	er C) Sheep's foot rolle	r D) Vibratory roller		
38.	If the plasticity index of					
, O.		B) Silt	32-W 98-W4	O) Clayey silt		

39.	<ul><li>A) On the plane which</li><li>B) Principal planes are</li></ul>	mutually orthogonal.	ng four statements.  mal stress, the shear stress is  ar stress, the normal stress is	
	D) The principal stress	s axes and principal stra	ain axes coincide for an isoti	opic material.
40.	Which of the followin  A) Deodar	g tree yields hard wood B) Chir	1? C) Shishum	D) Pine
41.	The most common cer	ment retarder is		
42.	-	r test of cement concret		D) Sodium chloride
	A) Strength	B) Porosity	C) Degree of compaction	D) workability
43.	Surkhi is added to lim  A) Prevent shrinkage		ime C) Increase bulk	D) Impart hydraulicity
44.	Rate of change of ben A) Shear force	ding moment is equal to B) Deflection		Rate of loading
45.	The number of indepe	ndent equations to be s B) 2	atisfied for static equilibrium C) 3	n of plane structure is D) 4
46.	The deformation of a A) Stiffness	spring produced by a un B) Flexibility	nit load is called  C) Influence coefficient	D) Unit strain
47.			er of 100 mm and a wall the a. The maximum torque the s	
48.	The number of seismi	c zones in which India	has been divided is	
49.		B) 5 g of concrete, the extra		D) 3
50	A) 5%	B) 10%	C) 15%	D) 20%
50.	transplantation is 48 irrigation) of 8 cm. Th	cm. During transplanted duty of irrigation was	days and total depth of ntation, there is an effect ter (in hectare/cumec) is	ive rainfall (useful for
	A) 216	B) 612	C) 300	D) 108
51.			ecutive years are 5000, 7000 utive year as per geometrical C) 10100	
52.	Alum as a coagulant i	s found to be most effective	ctive for pH range of water	CI Propagas 25% D
	A) 2 – 4	B) 4 – 6	C) 6 – 8	D) 8 – 10
53.	0.075 mm and 0.0075 without flocculation is	5 mm. If the terminal vs 0.5 mm/s, that for the	of identical specific gravity velocity of the largest partic smallest particle would be	le falling through water
51	A) 0.005 mm/s	B) 0.05 mm/s	C) 5 mm/s	D) 50 mm/s
54.	A) b	B) 2b	should not be more than ( <i>b</i> C) 4 <i>b</i>	is width of the tank) D) 8b
55.			king water should be limited	
JJ.	A) 10 ppm	B) 20 ppm		D) 50 ppm

56.	Period of cleaning of slow sand filters is A) 24 – 48 hours B) 10 – 12 days C) 2 – 3 months D) 1 – 2 years							
57.	Activated carbon is used for A) Disinfection B) Removing hardness C) Removing odours D) Removing corrosiveness							
58.	A sewer that receives the discharge of a number of house sewers is called  A) House sewer B) Lateral sewer C) Main sewer D) Submain sewer							
59.	The type of sewer which is suitable for both combined and separate system is  A) Circular sewer B) Egg shaped sewer C) Horse shoe type sewer D) Semi-elliptical sewer							
60.	If the sewage contains grease and fatty oils, these are removed in  A) Grit chambers  B) Detritus tanks  C) Skimming tanks  D) Sedimentation tanks							
61.	The maximum efficiency of BOD removal is achieved by A) Oxidation Pond B) Oxidation Ditch C) Aerated lagoons D) Trickling filters							
62.	Most of the bacteria in sewage are A) parasitic B) saprophytic C) pathogenic D) anaerobic							
63.	The rain is generally termed as acidic, if pH value of rain water falls below A) 3 B) 5 C) 7 D) 8							
64.	Alkalinity present in the water in mg/l as CaCO3 is A) 250 B) 500 C) 1750 D) 5000							
65.	A water treatment plant capacity, 1 m³/s has filter boxes of dimensions 6 m × 10 m. Loading rate to the filters is 120 m³/day/m². When two of the filters are out of service for back washing, the loading rate (in m³/day/m²) is  A) 288  B) 144  C) 200  D) 352							
66.	Consider the following unit processes commonly used in water treatment; Rapid Mixing (RM), Flocculation (F), Primary Sedimentation (PS), Secondary Sedimentation (SS), Chlorination (C) and Rapid Sand Filtration (RSF). The order of these unit processes (first to last) in a conventional water treatment plant is:  A) $PS \rightarrow RSF \rightarrow F \rightarrow RM \rightarrow SS \rightarrow C$ B) $PS \rightarrow F \rightarrow RM \rightarrow RSF \rightarrow SS \rightarrow C$ C) $PS \rightarrow F \rightarrow SS \rightarrow RSF \rightarrow RM \rightarrow C$ D) $PS \rightarrow RM \rightarrow F \rightarrow SS \rightarrow RSF \rightarrow C$							
67.	The absorbent most commonly used in water and waste treatment is  A) Sand of grain size from 0.1 to 2 mm.  B) Activated carbon granules of size 0.1 to 2 mm  C) Ordinary wood shavings of the fine size  D) Coal-tar							
68.								
69.	Determine the correctness or otherwise of the following Assertion [A] and the Reason [R]. <b>Assertion</b> (A): The crown of the outgoing larger diameter sewer is always matched with the crown of incoming smaller diameter sewer.							
	Reason (R): It eliminates backing up of sewage in the incoming smaller diameter sewer.  A) Both (A) and (R) are true and (R) is the correct reason for (A)  B) Both (A) and (R) are true but (R) is not the correct reason for (A)  C) Both (A) and (R) are false  D) (A) is true but (R) is false							
70.	A circular sewer 2 m diameter has to carry a discharge of 2 m <sup>3</sup> /s when flowing nearly full. What is the minimum required slope to initiate the flow? Assume Manning's $n = 0.015$ .  A) 0.00023  B) 0.000036  C) 0.000091  D) 0.000014							

71.	B) device for preventing overflow fr	c effluent to a soil absorption system com elevated water storage tank oped below the hydraulic grade line in order to avoid an				
	D) device for preventing crown corr	osion of sewer				
72.	-	00 times with aeration water had an initial dissolved oxygen of incubation at 20°C, the DO was zero. The BOD of waste				
	A) 700 mg/l B) 100 mg/l	C) 7 mg/l D) Cannot be determined				
73.	High COD to BOD ratio of an organ A) high biodegradability of the pollu B) low biodegradability of the pollu C) presence of free oxygen for aerol D) presence of toxic material in the	utant tant pic decomposition				
74.	Presence of excess nitrates in river v	vater indicates				
	A) recent pollution of water with second c) immediate pollution of water with	The state of the s				
75.	Particulate matter (fly ash) carried in effluent gases from the furnaces burning fossil fuels are better removed by					
	<ul><li>A) Cotton bag house filter</li><li>C) Cyclone</li></ul>	<ul><li>B) Electrostatic Precipitator (ESP)</li><li>D) Wet scrubber</li></ul>				
76.	All of the following diseases can be directly linked to air pollution except					
	A) Lung cancers     C) Respiratory illnesses	B) Cardiovascular diseases D) Diarrhoeal diseases				
77.	Second hand exposure to smoking of					
	<ul><li>A) Low birthweight in infants</li><li>C) Ischaemic heart disease in adults</li></ul>	<ul><li>B) Respiratory diseases in children</li><li>D) All of these</li></ul>				
78.	Early detection and treatment of dis	ease is a method of				
	<ul><li>A) Secondary prevention</li><li>C) Primordial prevention</li></ul>	<ul><li>B) Primary prevention</li><li>D) Tertiary prevention</li></ul>				
79.	The most cost-effective way to bring	down the burden of heart disease in a community would be:				
	<ul> <li>A) Screening of population for risk factors, stratifying them, and managing according to risk profile</li> <li>B) Rehabilitation of patients with heart disease</li> <li>C) Treating the patients of heart disease</li> <li>D) None of these</li> </ul>					
80.	The corner stone for delivery of hea	Ithcare services in India are:				
	<ul><li>A) Tertiary care hospitals</li><li>C) Civil Hospitals</li></ul>	<ul><li>B) Primary health centres</li><li>D) Secondary care centres</li></ul>				
81.	Food fortification as an interventi micronutrients except	on for nutritional supplementation used for the following				
	A) Iron B) Iodine	C) Calcium D) Vitamin A and D				
82.	The morbidity status of a disease in	the community is assessed through:				
	<ul><li>A) Incidence and prevalence rates</li><li>C) Disease specific death rate</li></ul>	B) Age specific death rate D) All of the above				

83.	In the epidemiologic represents	al triad model for	Covid 19 infection,	contaminated droplets/surface			
	A) Environment	B) Agent	C) Host	D) None of the above			
84.	Which of the followin	g micro-organism ca	nnot multiply on their o	wn			
	A) bacteria	B) virus	C) fungi	D) protozoa			
85.				nme (NVBDCP) is the central			
			all the following vector				
	A) Malaria, Dengue, and chikungunya  B) Japanese encephalitis  C) Kalazar  D) Leishmaniasis						
86.		The National Family Health Survey (NFHS) is a large-scale, multi-round survey conducted in					
		A) All households of India B) Representative households throughout India					
	D) None of the above	C) All households of representative states of India D) None of the above					
87.	Hepatitis A is a comm	nunicable disease tha	t is spread through:				
	A) Contaminated food		B) Direct contact with an infectious person				
	C) Oral sex		D) All of the above				
88.	Screening for a diseas						
	A) Detect the presence		e symptoms appear				
	<ul><li>B) Detect the seriousn</li><li>C) Assess the progress</li></ul>						
	D) None of these	s of disease					
89.		test's ability to design	nate:				
	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	r	D) None of the above				
90.	In the national immur	isation schedule of I	ndia, which of the follo	wing vaccine is only given in			
	endemic states			hi bi an contrad a idi a co			
,	A) Pneumococcal conjugate vaccine     C) Rotavirus		<ul><li>B) Japanese encephalitis</li><li>D) Hepatitis B</li></ul>				
91.	The Mental Healthcare	Act 2017 came into					
11.	A) 7 <sup>th</sup> July, 2018	B) 7 <sup>th</sup> July, 2017	C) 27 <sup>th</sup> July, 2018	D) 27 <sup>th</sup> July, 2017			
92.		* ** ** ** ***	by contaminated water				
J. 2000	A) Cholera	B) Polio	C) Hepatitis A	D) Hepatitis B			
93.	RCH program in India		C) Tiepatitis / i	b) Trepatitis b			
		0	ernal, new-born, children	n and adolescents			
	B) Pregnant women as	nd new-borns		and adolescents			
	C) Pregnant women, n	ew-borns and childre	n	idded immenstand			
0.4	D) None of the above	Policing leader and					
94.	The most widespread			Mampall Bellin			
	A) Vitamin A deficiency  B) Iron deficiency anaemia  C) Iodine deficiency  D) Vitamin D deficiency						
95.		ie that the alderly in	D) Vitamin D defici				
,,,	A) Physical Abuse	B) Loneliness	our country are facing is				
96.	1984 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985			D) Technological barriers			
<i>y</i> 0.	A) Dietary habits	B) Level of Stress	ase include all of the following C) Sleep Habits				
	,	2) Level of Buess	C) Steep Habits	D) Advancing age			

- 97. Tobacco consumption is linked to all of the following except:

  A) Cancer of urinary bladder
  B) Lung cancer
  C) Cancer of mouth and larynx
  D) Brain cancer

  98. The ABHA number in Ayushman Bharat Digital Mission helps to:

  A) Receive your digital lab reports, prescriptions and diagnosis seamlessly
  - B) Accessing and sharing your health records digitally
  - C) Interaction with participating healthcare providers
  - D) All of the above
- 99. Which of the following is not true in relation to ASHA workers:
  - A) ASHA can be a male or a female resident of the village
  - B) ASHA must primarily be a woman resident of the village
  - C) ASHA should be a literate woman
  - D) ASHA will be a health activist in the community
- 100. At present, India is at what stage of demographic cycle
  - A) High stationary
- B) Early expanding
- C) Late expanding
- D) Low stationary

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## Chandigarh Housing Board Post: JE Public Health

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

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