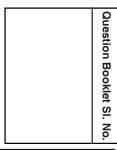
Question Booklet Alpha Code





Total Number of Questions: 100 Time: 75 Minutes

Maximum Marks: 100

INSTRUCTIONS TO CANDIDATES

- The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. A, B, C & D.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
- 6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- Each question is provided with four choices (A), (B), (C) and (D) having one correct answer.
 Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

A -2-

1. What is the ratio of lead and tin contains in a common solder?								
	A)	1:1	B) 1:2	C)	2:1	D) 1:3		
2.	Ме	elting point of coppe	er is					
	A)	327 °C		B)	1083 °C			
	C)	648 °C		D)	215 °C			
3.	Со	mpressive strength	of first class bricks is	s no	t less than			
	A)	35 kg/cm ²		B)	70 kg/cm ²			
	C)	105 kg/cm ²		D)	140 kg/cm ²			
4.	The	e mixture of cemer	ıt, sand, aggregate ar	nd w	ater is called			
	A)	Concrete		B)	Mortar			
	C)	Mixture		D)	Grout			
5.	Th	e main part of a gu	lly trap is					
	A)	Inlet		B)	Outlet			
	C)	Water seal		D)	Grating			
6.	Th	e standard pipe thr	ead					
	A)	BSW	B) BSP	C)	ВА	D) BAP		
7.	Wh	nat process is used	for removal of pathog	gen	ic bacteria from wa	ater?		
	A)	Screening		B)	Sedimentation			
	C)	Filtration		D)	Chlorination			
8.	Te	mporary hardness	in water is also know	n as	3			
	A)	Hyper hardness						
	B)	Carbonate hardne	SS					
	C)	Mild hardness						
	D)	Sulphate hardness	5					

9.	An underground source of water		
	A) Springs	B)	Ponds
	C) Lakes	D)	Rain
10.	Bend (F+F) means		
	A) Bend without thread		
	B) Bend 45°		
	C) Bend with both end external thread		
	D) Bend with both end internal thread		
11.	Zeolite process is used to remove		
	A) Impurities		
	B) Water hardness		
	C) Bacteria		
	D) Turbidity		
12.	Colour band for high grade GI pipe		
	A) Red band	B)	Yellow band
	C) Blue band	D)	Black band
13.	Pipe wrench is used for pipes of diameter		
	A) 0 to 15 mm	B)	20 to 100 mm
	C) 15 to 50 mm	D)	25 to 75 mm
14.	PVC pipes are used for temperature below	V	
	A) 140 °F	B)	140 °C
	C) 87 °F	D)	60 °F
15.	What is the storing capacity of oxygen gas	cyli	nder for welding?
	A) 7 m ³	B)	16 m ³
	C) 6 m ³	D)	17 m ³
Α	-4	ļ-	

16.	A pressure which results from sudden stoppage of the flow of water in a closed p is known as						
	A) Water hammer		B)	Water pressure			
	C) Velocity		D)	Pressure head			
17.	All gases burn with th	e help of					
	A) Hydrogen		B)	Acetylene			
	C) Nitrogen		D)	Oxygen			
18.	Which tree is used fo	r basket making?					
	A) Teak		B)	Bamboo			
	C) Chir		D)	Mango			
19.	The instrument used	to check the colour of	f wa	ter			
	A) Tintometer		B)	Manometer			
	C) Osmoscope		D)	Spectroscope			
20.	What distance Indian	Water Closet is fixed	aw	ay from the wall?			
	A) 400 mm	B) 350 mm	C)	100 mm	D) 250 mm		
21.	Water having pH less	than '7' is					
	A) Alkaline water		B)	Neutral water			
	C) Acidic water		D)	None of these			
22.	Solvent jointed pipe li	ines should not be pre	essu	ure tested until			
	A) 6 hrs	B) 12 hrs	C)	18 hrs	D) 24 hrs		
23.	How are the PVC pip	es specified ?					
	A) By outer dia of pipe						
	B) By inner dia of pip	es					
	C) By nominal bore						
	D) By the length						

A -5-

24 is a mode of heat transfer which required no material m				
	A)	Conduction	B)	Convection
	C)	Radiation	D)	Reaction
25.	Sta	ate the use of die sets.		
	A)	To cut pipes		
	B)	To cut holes		
	C)	To cut external threads		
	D)	To cut internal threads		
26.	We	elding is a fastening.		
	A)	Permanent	B)	Semi permanent
	C)	Temporary	D)	None of these
27.	Mir	nimum size of GI pipe for water supply		
	A)	6 mm	B)	12 mm
	C)	0.5 mm	D)	20 mm
28.	Sm	nallest measurement from a steel rule is		
	A)	0.5 cm	B)	0.5 mm
	C)	0.5 inch	D)	0.1 mm
29.	Bro	onze is an alloy of		
	A)	Copper and Tin		
	B)	Copper and Zinc		
	C)	Tin and Zinc		
	D)	None of these		
30.	Ва	cteria which causes reduction of sludge	in a	septic tank
	A)	Aerobic	B)	Anerobic
	C)	Coliform	D)	Yeast

Α

31.	A nipple has					
	A) Male thread on both	ends				
	B) Female thread on bo	oth ends				
	C) No threads on both 6	ends				
	D) None of these					
32.	Dual system of distributi	ion means				
	A) Gravity system					
	B) Pumping system					
	C) Gravity and pumping	g system				
	D) Intermittent and cont	tinuous system				
33.	A structure constructed	for drawing water t	rom	reservoir is called	k	
	A) Dams B) Intakes	C)	Overflows	D)	Wells
34.	What is the advantage of	of needle valve?				
	A) Fine control over the	eflow	B)	Easy control the	flow	
	C) Used as wash out		D)	Automatic contro	I	
35.	Coal tar coating is done	to CI pipes for				
	A) To protect the pipes	from corrosion				
	B) To joint pipes					
	C) To get smooth flow					
	D) To absorb more pres	ssure				
36.	State the advantages of	steel pipes.				
	A) Affect corrosion					
	B) Easy to bend					
	C) Can withstand high p	oressure				
	D) Not affect saline wat	er				

A -7-

37.	Where are flanged jo	ints preferred ?		
	A) In sewer lines		B) In temporary pip	e lines
	C) For AC pipes		D) For PVC pipe lin	es
38.	Why foot valves are p	provided in suction pi	oe ?	
	A) For the safety of t	he pump		
	B) For holding water	in suction line		
	C) For the safety of p	pipe lines		
	D) To get more effici	ency		
39.	What is the advantag	e of intermittent wate	r supply ?	
	A) Can supply to hig	h level with pressure		
	B) 24 hours water su	ipply		
	C) Has to store water	r		
	D) Get minimum pres	ssure		
40.	What should be the r	noisture content wher	n density of timber is o	determined?
	A) 12%	B) 10%	C) 8%	D) 15%
41.	Volume of one bag of	f cement is		
	A) 3.5 m ³	B) 0.0035 m ³	C) 0.35 m ³	D) 0.035 m ³
42.	A pump having impel	ler is		
	A) Displacement pur	np		
	B) Centrifugal pump			
	C) Hydraulic ram			
	D) Reciprocating pur	np		
43.	A soil fixture is			
	A) Wash basins		B) Bath tub	
	C) Urinals		D) Bathroom	
Α		-8	!-	

44.	A bolt has	_ thread.			
	A) Internal		B)	External	
	C) No threads		D)	None of these	
45.	Standard length of a h	acksaw blade is			
	A) 30 mm	B) 30 cm	C)	30 inch	D) 30 m
46.	Siphonic action is prev	vented by			
	A) Trap		B)	Cowl	
	C) Inspection chambe	er	D)	Vent pipe	
47.	Safety valve controls				
	A) Air flow		B)	Water flow	
	C) Overflow		D)	Excessive pressu	ıre
48.	How many days curing	g is required for cem	ent į	joints ?	
	A) 7 days	B) 15 days	C)	2 days	D) 10 days
49.	While grinding metals,	. safety device used i	is		
	A) Apron	,		Gum boots	
	C) Goggles		•	Helmet	
			•		
50.	The material used for	providing benching is			
	A) Cement concrete		,	Bricks	
	C) Cement mortar		D)	PVC	
51.	Which is the IS code f	or 33 grade cement '	?		
	A) IS 8112	B) IS 2665	C)	IS 1812	D) IS 2656
52.	To tighten and loosen	pipe fittings	is	s more useful.	
	A) Spanner		B)	Monkey plier	
	C) Pipe wrench		D)	Chain vice	
Α		-9	-		

53.	A waterproof chemic	al is		
	A) Ceroplastic		B) Solvent	
	C) Putty		D) Plaster of paris	
54.	How to prevent algae	e growth in OH tank?		
	A) By use of bleachi	ng powder		
	B) By use of copper	sulphate		
	C) By use of chlorine	9		
	D) By use of lime			
55.	Why traps are fitted i	n drainage system ?		
	A) To prevent waste	water	B) To prevent block	(S
	C) To avoid repairs		D) To prevent foul of	jas
56	How many pipes are	there in a one nine sy	vetem ?	
50.			C) 3	D) 4
	A) 1	B) 2	0) 3	D) 4
57.	What is the initial req	uirement to start a ce	ntrifugal pump ?	
	A) It should have ele	ectricity		
	B) It should have 50	ft head		
	C) It should have mi	nimum 8 m suction he	ead	
	D) It should be full of	f water in pump		
58.	Which is a process o	f water treatment ?		
	A) Intake	B) Coagulation	C) Storing	D) Pumping
59.	State the advantage	of composite pipes.		
	A) Easily break			
	B) Curves can be ea	sily formed		
	C) Easy to joint			
	D) Used in main line	S		

A -10-

60.	Expand the FD used in building drawing						
	A) Fixed Door	B) Fixed Din					
	C) Floor Dirt	D) Floor Drain					
61.	How effluents from septic tank is dispos	sed off?					
	A) soak pit	B) Leach pit					
	C) Cesspool	D) Privy					
62.	What is the standard size of measuring	box for aggregate ?					
	A) $40 \times 30 \times 20$ cm	B) $40 \times 35 \times 25$ cm					
	C) $30 \times 30 \times 20 \text{ cm}$	D) $40 \times 35 \times 20 \text{ cm}$					
63.	Why mirror test is carried out ?						
	A) To check the alignment						
	B) To check leaks						
	C) To check gradient						
	D) To check water tightness						
64.	How much is the average quantity of se	ewage per capita per day ?					
	A) 125 litre/day/person	B) 100 litre/day/person					
	C) 90 litre/day/person	D) 135 litre/day/person					
65.	What is the height of fixing of automatic	c cistern for urinal ?					
	A) 1800 mm	B) 1900 mm					
	C) 2000 mm	D) 2100 mm					
66.	Size of waste fitting of wash basin is						
	A) 25 mm B) 32 mm	C) 40 mm D) 50 mm					
67.	The valve which prevents the back flow	v of water is					
	A) Sluice valve	B) Butterfly valve					
	C) Needle valve	D) Check valve					

68.	The water which is sa	afe to drink is			
	A) Colourless water		B)	Clear water	
	C) Potable water		D)	Bottled water	
69.	Bricks are laid				
	A) With frog down		B)	Frog side	
	C) With frog up		•	None of these	
			•		
70.	One of the benefits o	f rain water harvesting	g is		
	A) Reduce salinity		B)	Reduce impuritie	S
	C) Avoid smell		D)	Change colour	
71.	The length of GI pipe	s available in market	is		
	A) 3 m	B) 4.5 m	C)	5 m	D) 6 m
72.	The dia. of the hose v	which is usually conne	ecte	d to the post hydra	ant is
	A) 63 mm	B) 50 mm	C)	40 mm	D) 100 mm
73.	The first artificial cem	ent is			
	A) Portland cement		B)	Birla white	
	C) Grey cement		D)	Pozzolona 23 gra	ade
74.	Soil pipe is the pipe v	which connects the wa	ater	closet to	
	A) Trap		B)	Septic tank	
	C) Vent pipe		D)	Siphonage pipe	
75.	The gas produced in	the septic tank is			
	A) Methane		B)	Propane	
	C) Butane		D)	CNG	
76.	A CID joint has	rubber rings.			
	A) 1	B) 2	C)	3	D) 4

A

77.	1 m ³ of water is equa	l to lit	re.			
	A) 100	B) 1000	C)	10000	D)	4.54
78.	IS number of water cl	oset is				
	A) IS 2565	B) IS 776	C)	IS 2548	D)	IS 2556
79.	Aluminium is extracte	d from				
	A) Galena	B) Pyrite	C)	Bauxite	D)	Limonite
80.	Scour valve is provide	ed for				
	A) Safety		B)	Priming		
	C) Check back flow		D)	Wash out		
81.	Cast Iron Pipes are m	nade of				
	A) Grey Cast Iron			Chilled Cast Iron		
	C) Malleable Cast Iro	n	D)	White Cast Iron		
82.	It is used for carrying	excavated materials				
	A) Spade	B) Jack Plane	C)	Mortar Pan	D)	Trowel
83.	The fitting used on pi	peline for easy to disr	man	tle and repair		
	A) Tee	B) Elbow	C)	Coupling	D)	Union
84.	Flanged joints are pro	offered in pipeline for				
	A) Temporary Joint		B)	Permanent Joint		
	C) Piece Pipe Joint		D)	Underground Pip	e Jo	oint
85.	Which type of Bender	has tripod stand?				
	A) Bench pipe bender					
	B) Hydraulic bending	machine				
	C) Portable hand ope	erated pipe bender				
	D) Machine bender					

A

86.	Carbonate hardness r	neans				
	A) Temporary hardne	SS	B) Permanent hardr	ness		
	C) Colloidal hardness		D) None of these			
87.	The system requires le	ess number of valves	and design of pipe s	ize is easy		
	A) Circular system		B) Radial system			
	C) Dead end system		D) Ring system			
88.	PPR means					
	A) Poly Plastic Ready	Pipe				
	B) Poly Propylene Ra	ndom Pipe				
	C) Pre Polymer Rand	om Pipe				
	D) Perfect Polyvinyl F	Random Pipe				
89.	The pump fitted in wa	ter supply line to incr	ease pressure			
	A) Jet pump		B) Air lift pump			
	C) Booster pump		D) Hand pump			
90.	The tap used in lavato	ory basin				
	A) Pillar taps		B) Bib tap			
	C) Plug tap		D) Waste-not tap			
91.	In plumbing system, the	nere is no ventilation	pipe			
	A) One pipe system					
	B) Single stack system	m				
	C) Two pipe system					
	D) Partially separate s	system				
92.	Maximum size of aggi	egates used for RCC	pipes is			
	A) 4 mm	B) 6 mm	C) 25 mm	D) 32 mm		

A -14-

93.	In hand pump, when	the handle lowered, t	hen	piston is	
	A) Upward		B)	Downward	
	C) No movement		D)	None of these	
94.	The test applied in sanitary pipe for alignment checking				
	A) Small Test		B)	Hydraulic Test	
	C) Absorption Test		D)	Ball Test	
95.	. When sudden closing a valve causes of				
	A) Air lock		B)	Frictional loss	
	C) Water hammer		D)	Broken valve	
96.	The chemical used for smell test				
	A) Peppermint oil		B)	Copper sulphate	
	C) Dettol		D)	Shampoo or soap	0
97.	Plumb bob is used to verify				
	A) Horizontal level		B)	Surface level	
	C) Parallel level		D)	Vertical level	
98.	. Rasp cut file commonly used for				
	A) Shaping	B) Milling	C)	Wood work	D) Fabricated
99.	It is a part of water ta	p			
	A) Peen		B)	Inner former	
	C) Spindle		D)	Heal	
100.). IS code of pipe wrench is				
	A) IS: 4003	B) IS: 3489	C)	IS: 2587	D) IS: 4066
				entrantument in account interpret.	

A

Space for Rough Work

A -16-