60/2019

Question Booklet Alpha Code



Question Booklet Serial Number

Total Number of guestions: 100 Time: 75 Minutes

Maximum Marks: 100

INSTRUCTIONS TO CANDIDATES

- 1. 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.
- 4. 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.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is unnumbered, 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 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.
- 10. 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.





001.	CAD	CADD stands for			
	(A)	Computer Aided Design and Drafting			
	(B)	Computer Aided Drawing and Design			
	(C)	Computer Aided Design and Demon	strati	on	
	(D)	None of these			
002.	The	command that allows to draw lines a	t righ	t angles only is	
	(A)	Perpend	(B)	Right	
	(C)	Set	(D)	Ortho	
003.	Whi	ch command is used to set drawing b	ounda	aries?	
	(A)	Trim	(B)	Limit	
	(C)	Exclude	(D)	Border	
004.	Whi	ch command is used to erase a part o	f an o	bject between two points?	
	(A)	Close	(B)	Finish	
	(C)	Complete	(D)	Break	
005.	Тое	rase a previously drawn line, which o	ption	in LINEcommand can be used?	
	(A)	Erase	(B)	Undo	
	(C)	Forget	(D)	Remove	
006.	The	command used to join two non-parall	lel line	es by drawing a beveled line	
	(A)	Extend	(B)	Trim	
	(C)	Chamfer	(D)	Rotate	
007.	Fun	ction key F10 is used in AutoCAD to _			
	(A)	Snap ON/OFF	(B)	Grid ON/OFF	
	(C)	Ortho ON/OFF	(D)	Polar tracking	
008.	Whi	ch command is used to exit from a dra	awing	file in AutoCAD?	
	(A)	Exit	(B)	Quit	
	(C)	Escape	(D)	None of these	

009.	9. Letters and Numerals are designated by their			
	(A)	Width	(B)	Height
	(C)	Style	(D)	None of these
010.	Stan	dard size of A2 sheet (trimmed) is		
	(A)	841 × 1189	(B)	594 × 841
	(C)	297 × 420	(D)	420 × 594
O11.		ch instrument is used to erase a parby line?	rticula	ar spot of a line without erasing the
	(A)	Eraser	(B)	Trimmer
	(C)	Erasing shield	(D)	Sand paper
012.	It is	a curved ruler used for drawing irregu	ılar cu	rve
	(A)	Flexible curve	(B)	Stencil
	(C)	French curve	(D)	Compass
013.	_	le stroke lettering recommended bineering drawings is	y Bur	eau of Indian Standards for use in
	(A)	IS 9608-83	(B)	IS 9609-83
	(C)	IS 9600-86	(D)	IS 9607-85
014.		dimensioning to be used only where tendanger the functional requirements	-	ssible accumulation of tolerance does e part
	(A)	Parallel dimensioning		
	(B)	Chain dimensioning		
	(C)	Super imposed running dimensioning	g	
	(D)	None of these		
015.		en the section plane is inclined to the a section obtained is	axis o	f the cone and cuts all the generators,
	(A)	Ellipse	(B)	Parabola
	(C)	Hyperbola	(D)	Helix

016.	. In first angle projection method the plane is placed			
	(A)	Below X Y line	(B)	Above X Y line
	(C)	Anywhere	(D)	None of these
017.	A Lir	ne is parallel to both the HP and VP. It	s proj	ection is
	(A)	Two parallel lines	(B)	Line and a point
	(C)	Two points	(D)	Two inclined lines
018.	Orth	ographic projection is also known as		_
	(A)	Oblique projection	(B)	Perpendicular projection
	(C)	Cavalier projection	(D)	Cabinet projection
019.	The	fundamental principle of surveying is	to wo	rk from the
	(A)	Whole to the part	(B)	Part to the whole
	(C)	Lower level to higher level	(D)	Higher level to lower level
020.	The	surveying used to determine additiona	al deta	nils such as boundaries of field is called
	(A)	City survey	(B)	Location survey
	(C)	Cadastral survey	(D)	Topographical survey
021.	The	obstacle, which obstructs vision but r	ot ch	aining, is a
	(A)	River	(B)	Pond
	(C)	Hill	(D)	Both A & B
022.	In a	whole circle bearing system N 25 [°] 15 ^¹	E corr	esponds to
	(A)	115°15'	(B)	154°45'
	(C)	25°15'	(D)	334°45 '
023.	The	horizontal angle between the true me	eridian	and magnetic meridian is known as
	(A)	True bearing	(B)	dip
	(C)	Local attraction	(D)	Declination

024.	The	optical square used for setting out	a	ngle
	(A)	0°	(B)	45°
	(C)	60°	(D)	90°
025.	The	theodolite is an instrument used for n	neasu	ring very accurately
	(A)	Horizontal angle only	(B)	Vertical angle only
	(C)	Horizontal and vertical angles	(D)	Linear measurements
026.	A lin		bject	glass and the center of the eyepiece
	(A)	Fundamental line	(B)	Axis of telescope
	(C)	Axis of level tube	(D)	Line of pollination
027.		axis about which the telescope c	an b	e rotated in a Horizontal plane is
	(A)	Horizontal axis	(B)	Vertical axis
	(C)	Axis of the telescope	(D)	Line of pollination
028.		power of a telescope to form distingui	ishabl	le image of objects separated by small
	(A)	Definition	(B)	Brightness
	(C)	Sensitivity	(D)	Resolving power
029.	The	deflection angle may have any value	betwe	een
	(A)	0° & 45°	(B)	0° & 90°
	(C)	0° & 120°	(D)	0° & 180°
030.	The the I	. •	oaralle	el to the meridian is known asof
	(A)	Latitude	(B)	Departure
	(C)	Bearing	(D)	Angle



031.	031. A staff reading taken on a Benchmark should be 2.627. Its reduced level i What should be the height of instrument?			be 2.627. Its reduced level is 150 n
	(A)	152.627 m	(B)	147.373 m
	(C)	152.672 m	(D)	147.337 m
032.	EDM	I stands for ———		
	(A)	Electronic distance measurement	(B)	Electrical digital measurement
	(C)	Electronic digital measurement	(D)	None of these
033.	The	most commonly used modern instrum	nent ir	n surveying is
	(A)	Digital theodolite	(B)	Total station
	(C)	Air to level	(D)	None of these
034.	Sand	dstone is		
	(A)	Sedimentary rock	(B)	Metamorphic rock
	(C)	Igneous rock	(D)	Volcanic rock
035.	Well	seasoned timber may contain moistu	re up	to
	(A)	4% to 6%	(B)	6% to 8%
	(C)	8% to 10%	(D)	10% to 12%
036.	Mos	t commonly used solvent in oil paint is	5	
	(A)	Petroleum	(B)	Spirit
	(C)	Coal-tar Coal-tar	(D)	Turpentine
037.	The	percentage of silica in good brick ear	th sho	ould vary from:
	(A)	50 to 60%	(B)	40 to 50%
	(C)	30 to 40%	(D)	20 to 30%
038.	Sour	ndness test of cement is carried out to	dete	rmine:
	(A)	Ultimate strength	(B)	Quantity of free lime
	(C)	Durability	(D)	Initial setting

039.	9. An example of four-centered arch is:			
	(A)	Pointed Arch	(B)	Segmental Arch
	(C)	Venetian Arch	(D)	Florentine Arch
040.	Rank	kin's formula is used to find out:		
	(A)	Maximum depth of foundation	(B)	Minimum depth of foundation
	(C)	Minimum width of foundation	(D)	Volume of foundation
041.	A ter	mporary structure constructed to supp	oort w	orkmen, materials etc. is
	(A)	Shoring	(B)	Underpinning
	(C)	Timbering	(D)	Scaffolding
042.	Miniı	mum headroom provided for a stair is		
	(A)	2.10 m	(B)	2.70 m
	(C)	1.80 m	(D)	2.01 m
043.	Verti	cal window provided on a sloping roc	of is	
	(A)	Bay window	(B)	Dormer window
	(C)	Sky light	(D)	Clere-story window
044.	Four	ndation which covers the entire area b	oenea	th a structure is
	(A)	Raff foundation	(B)	Pile foundation
		Well foundation	(D)	Pier foundation
			•	
045.	For F	RCC construction the maximum size o	f cou	rse aggregates is limited to
	(A)	15mm	(B)	20mm
	(C)	30mm	(D)	10mm
046.	The	wooden queen post truss is suitable f	or spa	an varying from
	(A)	5 to 9m	(B)	8 to 12m
	(C)	14 to 16m	(D)	14 to 20m



047.	47. A full brick which is laid with its length perpendicular to the face of the wall is			icular to the face of the wall is
	(A)	Facing	(B)	Queen closer
	(C)	Header	(D)	King closer
048.	The	part of the building constructed below	v grou	und level is
	(A)	Super structure	(B)	Plinth
	(C)	Sub structure	(D)	Cellar
049.	Educ	cational buildings belong to		
	(A)	Group B	(B)	Group A
	(C)	Group C	(D)	Group D
050.	Pain	ting constant of panelled doors		
	(A)	1.00	(B)	0.80
	(C)	1.30	(D)	1.80
051.		compacting the quantity of earthwor	k usi	ng prismoidal formula the number of
	(A)	Any number	(B)	Odd
	(C)	Four	(D)	Even
052.	The	value at the end of the utility period w	vithou	t being dismantled
	(A)	Book value	(B)	Scrap value
	(C)	Salvage value	(D)	Market value
053.	All th	ne work executed shall be measured a	and e	ntered in a permanent record called
	(A)	Account Book	(B)	Field Book
	(C)	Personal Book	(D)	M Book
054.	Whil	e submitting tender the contractor is	to dep	oosit 2% of estimated cost as
	(A)	Securing Money	(B)	Profit Money
	(C)	Capital Money	(D)	Earnest Money

055.	5. The estimated quantity of cement required in cement mortar (1:6) per cubic metre will be			
	(A)	5.5 Bags	(B)	4.8 Bags
	(C)	8 Bags	(D)	3 Bags
056.	In ar	nalysis of rate, contractor's profit is tak	en at	the rate of
	(A)	1%	(B)	10%
	(C)	5%	(D)	20%
057.		ntermediate floor between two floors a er floor is	above	ground level accessible only from the
	(A)	Loft	(B)	Cabin
	(C)	Basement floor	(D)	Mezzanine floor
058.	8. As per National Building Code, the minimum area for a kitchen in residential building is			
	(A)	2.5 m ²	(B)	3.30 m ²
	(C)	4.5 m ²	(D)	7 m ²
059.		total depth of water required by a cro is known as	p duri	ng the entire period the crop is in the
	(A)	Delta	(B)	Duty
	(C)	Base Period	(D)	Crop Period
060.	The	optimum depth of kor watering is 19c	m for	
	(A)	Wheat	(B)	Sugarcane
	(C)	Rice	(D)	Cotton
061.		n the bed level of canal is higher than the cross drainage work is said to be		ghest floor level (HFL) of the drainage,
	(A)	Aqueduct	(B)	Super passage
	(C)	Canal siphon	(D)	Siphon aqueduct



062.	2. The most efficient channel cross section is						
	(A)	Semi circular					
	(B)	Half hexagonal in the form of trapezoid					
	(C)	Rectangular					
	(D)	Triangular					
063.	Grav	ity Dam can be constructed with					
	(A)	Earth	(B)	Masonry			
	(C)	Sand	(D)	Rocks			
064.	Free	Board in a dam is					
	(A)	A type of shutter					
	(B)	Name of storage					
	(C)	Margin between water level and top	of daı	m			
	(D)	None of these					
065.	For a	a liquid, the variation in its volume wit	h the	variation of pressure is known as			
	(A)	Viscosity	(B)	Mass density			
	(C)	Compressibility	(D)	Liquid pressure			
066.	The	path followed by a fluid particle in mo	otion is	s called			
	(A)	Path line	(B)	Stream line			
	(C)	Steak line	(D)	Filament line			
067.	Hydı	ostatic pressure in a dam depends or	ı its				
	(A)	Depth	(B)	Shape			
	(C)	Length	(D)	Both A and B			
068.	The	ratio of average load to the maximum	dema	and of power during a given period is			
	(A)	Load factor	(B)	Capacity factor			
	(C)	Utilization factor	(D)	None of these			

069.	Argil	laceous rocks-example		
	(A)	Slate	(B)	Brick
	(C)	Stone	(D)	None of these
070.	Supe	er sulphated cement is IS:Code		_
	(A)	6220-1980	(B)	5820-2015
	(C)	6909-1990	(D)	6700-1980
071.	The	horizontal distance between the verti	cal joi	nts in successive course
	(A)	Lap	(B)	Butt joint
	(C)	Dowel joint	(D)	Table joint
072.	Spre	ad footing for a wall is known as		
	(A)	Common footing	(B)	Strip footing
	(C)	Spread footing	(D)	Combined footing
073.	_	le flying shore should have a depth as and width of not less than		ot less than of the clear fits length
	(A)	1/8, 1/9	(B)	3/9, 3/8
	(C)	1/3, 1/5	(D)	1/2, 1/10
074.		of the horizontal circulation may cor of a residential building.	stitut	e about of the total plan
	(A)	5% to 10%	(B)	7% to 8%
	(C)	2% to 20%	(D)	20% to 25%
075.	Life	period of a building should be at least	:	years
	(A)	50	(B)	60
	(C)	75	(D)	100
076.	Barb	ed wire fencing units of measuremen	t in M	KS
	(A)	Metre	(B)	cu.m
	(C)	Quintal	(D)	Ка



077.	77. It is that part in excess of hygroscopic water which exists in the pore space of the by molecular attraction			ich exists in the pore space of the soil
	(A)	Sea water	(B)	River water
	(C)	Capillary water	(D)	None of these
078.		hydraulic structure in which the dra	inage	is taken over the irrigation canal is
	(A)	Super passage	(B)	Level cross
	(C)	Super elevation	(D)	All of the above
079.	The	sheet of liquid flowing over notch is k	nown	as
	(A)	Nappe or vein	(B)	Flow
	(C)	Gate	(D)	Valve
080.	30. When the expenditure on a work exceeds or is likely to exceed the amount administrative sanction by more than 10%,			r is likely to exceed the amount of
	(A)	Plinth area estimate	(B)	Detailed estimate
	(C)	Revised estimate	(D)	None of these
081.	Woo	den plank on which roof covering is f	ixed	
	(A)	Purline	(B)	Hip
	(C)	Rafter	(D)	Battens
082.	The	joint formed by cutting the edge of bo	oth the	e members by an angle is
	(A)	Plain joint	(B)	Butt joint
	(C)	Tenon joint	(D)	Angle joint
083.	Solic	geometrical drawing dimensions		
	(A)	Two	(B)	Three
	(C)	One	(D)	Four

084.	34. Composition of brick earth alumina or clay			
	(A)	20-30%	(B)	35-50%
	(C)	20-25%	(D)	1-2%
085.	D.P.O	C. is provided above leve	el	
	(A)	Foundation	(B)	Basement
	(C)	Plinth	(D)	Base level
086.	Und	ersurface of arch		
	(A)	Sofitt	(B)	Intrados
	(C)	Extrados	(D)	Crown
087.	Merc	cantile (includes both retail and whole	sale s	stores) group
	(A)	Group-C	(B)	Group-H
	(C)	Group-F	(D)	Group-G
088.	The	angle of inclination of stair with the flo	oor	
	(A)	Pitch	(B)	Rise
	(C)	Tread	(D)	All of the above
089.	If the	e velocity of a body decreases with tin	ne, it i	is called
	(A)	Acceleration	(B)	Motion
	(C)	Inertia	(D)	Retardation
090.	1 HP	in metric is Watts.		
	(A)	736	(B)	746
	(C)	560	(D)	78
091.	Kine	tic energy is measured in		
	(A)	Dynes	(B)	Newtons
	(C)	Watts	(D)	Joules
092.	The	ratio of lateral strain to linear strain		
	(A)	Strain ratio	(B)	Bulk modulus
	(C)	Working stress	(D)	Poisson ratio



	How much work it can do in one hour?			
	(A)	2000	(B)	14 × 10 ³
	(C)	12 × 10 ⁵	(D)	20
094.	4. The friction experienced by a body when it is in motion			
	(A)	Static friction	(B)	Coefficient friction
	(C)	Limiting friction	(D)	Dynamic friction
095. S.I. prefix of 10^{-6} is				
	(A)	Micro	(B)	Mega
	(C)	Milli	(D)	Nano
096. 1 inch = Centimetre.				
	(A)	0.3937	(B)	30.48
	(C)	2.54	(D)	25.40
097. Unit of Power in S.I. System				
	(A)	Joule	(B)	Watt
	(C)	Newton	(D)	Volt
098.	8. Calculate the side of the square which will have the same area as the rectangle 50 mm by 25 mm side.			
	(A)	42.36	(B)	38.57
	(C)	32.10	(D)	35.36
099.	999. A rectangular sheet metal measures 12 cm by 8 cm. Four quadrants of circle of radius 2 cm each are cut away at the corners. Find the area of the remaining portion.			
	(A)	52.34	(B)	83.44
	(C)	64.45	(D)	8.53
100.	Find the area of a right angular triangle whose base is 15 cm and hypothesis is 21 cm.			
	(A)	110.18	(B)	119.65
	(C)	128.40	(D)	168.70

093. A pump can raise 100 litres of water through a height of 200 metre in one minute.



SPACE FOR ROUGH WORK