Question Booklet Alpha Code



Question	Booklet Sl. No.

Α

Total Number of Questions: 100 Time: 90 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 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.
- 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.



CENTRE FOR CIVIL ENGG. COMPETITIVE EXAMS

GATE · AE · JE-CIVIL

A -2-

1.	Which part doesn't be i. Working edge ii. Blade iii. Battens iv. Ebony A) i and ii		C) i and iii	D) iii and iv
2.	Small bow compass of A) 30 mm	can draw circles less t B) 25 mm	than radius C) 35 mm	D) 40 mm
3.	Which of the following A) HB	g is hardest pencil ? B) 9H	C) 7B	D) 3H
4.	What is the ratio of le i. 1:1.414 ii. $\sqrt{2}$:1	ngth and width of dra	wing sheet ?	
	iii. 1 : √2iv. 1 : 1.5A) i and ii	B) ii and iv	C) i and iii	D) i and iv
	What is the inclination A) 15° towards right C) 15° towards left		B) 75° from horizont	al IVE EXAMS
6.	Which of the following dimension line? A) Extension line			ding beyond the D) Out line
7.	Which of the following i. 10:1 ii. 10:2 iii. 1:2 iv. 1:5 A) i and ii	g are reducing scale ? B) ii and iii	C) iii and iv	D) i and iv
8.	Which one of the following the number of sides 3 : A) $(2 \times n - 4) \times right$ C) $(3 \times n - 5) \times right$	owing is the sum of the angle	,	lygon where 'n' is

The conic section at which section plane is inclined to the axis and is parallel to one of the generators of the cone, the section is called				nd is parallel to		
	A) Parabola	B) Ellipse	C)	Hyperbola	D) Involute	
10.	In orthographic project	ction, the projectors a	re _	to the pl	ane of projection.	
	A) Inclined	B) Parallel	C)	Perpendicular	D) Vertical	
11.	In which type of surve	ey, the shape of the ea	arth	is taken into acco	ount?	
	A) Plane survey		B) Geodetic survey			
	C) Geological survey		D)	None of these		
12.	The process of fixing	intermediate points o	n a	survey line is calle	ed	
	A) Offsetting	B) Extending	C)	Ranging	D) Aligning	
13.	The direction of a line					
	A) Bearing	B) Angle	C)	Dip	D) Declination	
14.	The process of putting	the plane table into so	me f	ixed direction so th	nat line representing	
	a certain direction on	the plan is parallel to	tha	t direction on the	ground	
	A) Fixing	B) Centering	C)	Levelling	D) Orientation	
15	Which line is normal t	o the level line at a pe	oint	2		
13.	A) Horizontal line	o trie level lille at a po		Vertical line		
	C) Datum line		,	None of these		
	O) Datum me		ט)	None of these		
16.	What is the inclination	n of the needle with th	e h	orizontal in prisma	atic compass ?	
	A) Dip		B)	Declination		
	C) Local attraction		D)	Variation		
17.	Which levelling is ado two points as across		sibl	e to set up the leve	el mid way between	
	A) Simple levelling		B)	Differential levelli	ing	
	C) Profile levelling		,	Reciprocal levelli		
	, 9		,	,	•	

A) 70.955 m B) 76.475 m C) 79.345 m D) 73.825 m 19. In which method of contouring, spot levels are taken along a series of lines laid over the area? A) Direct method B) Indirect method C) Radiation method D) Intersection method 20. A reliable instrument used for setting out a grade contour is A) Box sextant B) Pentagraph C) Ceylon ghat tracer D) Substane bar 21. What is the process of turning the telescope in vertical plane about its horizontal axis through 180°? A) Transiting B) Swinging C) Centering D) Inverting 22. Which angle is measured clockwise from the previous line to the following line? A) Deflection angle B) Direct angle C) Interior angle D) Bearing angle 23. Value of contour interval adopted for town planning schemes, reservoirs etc. A) 3 to 5 m B) 2 to 3 m C) 0.5 to 2 m D) 0.2 to 0.5 m 24. Which is the carrier for distance measurement in almost all total stations? A) Radio waves B) Infrared rays C) X-rays D) Gamma rays 25. What least angle capable of measuring with best quality total station? A) 2 sec B) 3 sec C) 5 sec D) 6 sec 26. What is the maximum safe bearing capacity of black cotton soil in dry condition? A) 5 B) 10 C) 15 D) 25	18.	The bottom of a RCC Reading on inverted ground is 1.435 m. W	staff on bench mark	A is 2.760 m and rea	
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26. What is the maximum safe bearing capacity of black cotton soil in dry condition?	25.	What least angle capa	able of measuring wit	h best quality total sta	ation ?
		A) 2 sec	B) 3 sec	C) 5 sec	D) 6 sec
A) 5 B) 10 C) 15 D) 25	26.	What is the maximum	n safe bearing capacit	y of black cotton soil	in dry condition ?
		A) 5	B) 10	C) 15	D) 25

A -5-

27.	What is the name of tool used for setting ar	ngle	e in brick masonry ?
	A) Bevel	B)	Plumb rule
	C) Masons square	D)	1-meter 4-fold rule
28.	Which plaster material used in X-ray rooms	s to	protect the persons working?
	A) Acoustic plaster	B)	Asbestos cement plaster
	C) Barium plaster	D)	Granite silicon plaster
29.	The cracks occur in a centre of a tree and direction of medullary rays	the	y extend from pith to sapwood in the
	A) Star shakes	B)	Radial shakes
	C) Cup shakes	D)	Heart shakes
30.	What is the name of the term for hard brow used for architectural ornamentation?	nisl	h, unglazed vitrified ceramic material
	A) Porcelain	B)	Terracotta
	C) Earthenware	D)	Stoneware
31.	The commonly used retarders are		
	A) Plaster of Paris	B)	Gypsum
	C) Ammonium chloride	D)	All of these
32.	What is the maximum span for double joist	floo	or?
	A) 3.6 m B) 5 m	C)	6 m D) 7.5 m
33.	What is the name of term used for the verti length or cross direction?	cal	joints separating the bricks in either
	A) Perpends	B)	Lap
	C) Bed	D)	Bed joint
34.	What is the mass of 6 mm dia. of steel bar	?	
	A) 0.222 kg	B)	0.302 kg
	C) 0.395 kg	D)	0.888 kg

35.	What is the slope usually given on RCC fla	at roof ?			
	A) 1 in 15	B) 1 in 20			
	C) 1 in 60	D) 1 in 130			
36.	What is the name of the test to determine to stones?	the durability or weathering quality of			
	A) Impact test	B) Smith's test			
	C) Crushing test	D) Crystallization test			
37.	Which class of brick is used for unimportar	nt situation and for internal walls ?			
	A) 1 st Class brick	B) 2 nd Class brick			
	C) 3 rd Class brick	D) 4 th Class brick			
38.	What is the name suitable for cold weather	ering concrete ?			
	A) Hydrophobic cement	B) Modified portland cement			
	C) Extra rapid hardening cement	D) High alumina cement			
39.	Name the sand which passes through a sieve with clear opening of 3.17 mm and				
	used for masonry work.				
	A) Fine sand	B) Coarse sand			
10	C) Gravelly sand	D) Mountain sand			
+0.	What is the weight of steel in kg/m ² ?	C) 11000 D) 0500			
	A) 7200 B) 7850	C) 11360 D) 8590			
11.	What will happen when vertical and incline	ed surface are too thickness painted?			
	A) Sagging	B) Blistering			
	C) Flaking	D) Bloom			
12.	What is the name of the treatment that to maintenance treatment open earth around				
	A) Soil treatment	B) Structural barriers			
	C) Post-construction treatment	D) Pre-construction treatment			

43.	Slate is an example of		
	A) Sedimentary rock	B) Metamorphic rock	
	C) Igneous rock	D) Argillaceous rock	
44.	What is the name of class lime which can domes etc. ?	be used for structural work such as arches,	
	A) Class a	B) Class B	
	C) Class c	D) Class d	
45.	What is the yield strength of HYSD bars	?	
	A) 250 N/mm ²	B) 140 N/mm ²	
	C) 415 N/mm ²	D) 230 N/mm ²	
46.	The decrease or loss in the value of prope and tear is called	erty due to structural deterioration use, wear	
	A) Annuity	B) Capital cost	
	C) Rateable value	D) Depreciation	
47.	What is the measurement unit for the cor	rnice works in estimation ?	
	A) Meter	B) Square meter	
	C) Cubic meter	D) Cubic feet	
48.	The estimate prepared while the original	sanctioned estimate is exceeding by more	
	than 5 percentage is called		
	A) Supplementary estimate	B) Revised estimate	
	C) Extension estimate	D) Plinth area estimate	
49.	Printed list of rates of various items of wo	ork maintained by the engineering	
	A) Schedule of rates	B) Govt. rate book	
	C) Market rate	D) Analysis of rate	
50.	Annual periodic payment for repayment of	of capital amount invested by a party	
	A) Capital cost B) Annuity	C) Depreciation D) Outgoings	

51.	Plastering area taken A) Length × breadth C) Section area × he	× height	,	Perimeter Perimeter × heigh	nt		
52.	Forest Conservation	Act was passed in the	e year				
	A) 1992	B) 1980	C)	1972	D) 2000		
53.	IS Code used for fire	safety is					
	A) IS 1641 – 1960		B)	IS 291 – 1900			
	C) IS 456		D)	IS 1984			
54.	Plan approved and sa	anctioned by the com	pete	ent authority			
	A) Key plan		B)	Site plan			
	C) Approved plan		D)	Sanctioned plan			
55.	Permissible F.A.R. fo	r the commercial build	ding				
	A) 2 (Two)		B)	2.5 (Two.Five)			
	C) 2.8 (Two.Eight)		D)	3.2 (Three.Two)			
56.	The estimated cost ch	arged to meet the expe	ense	of establishment d	lesigning, planning,		
	supervision etc. which	h is of $10 - 15\%$ of the	e es	timated cost			
	A) Tools and plant co	ost					
	B) Work charged est	ablishment cost					
	C) Complete estimate	e cost					
	D) Centage charge						
57.	Statement of various items of work giving the description of quantities and unit rates						
	where the amount co	lumns are left blank is					
	A) Bill of quantities		,	Specification			
	C) Rough cost estimate	ate	D)	Plinth area estima	ate		
58.	Diameter of mild stee	l bars is expressed in					
	A) mm	B) cm	C)	cm ²	D) $\phi \times mm$		

-9-

Unit of payment for boring holes in iron			
A) Per dia	B) Per number		
C) Per cm	D) Per quintal		
Which one is not included in job overhead	1?		
A) Establishment	B) Losses on advances		
C) Amenities of labour	D) Workmans compensation		
Importance of orientation of building			
A) Outdoor projection	B) Indoor modification		
C) Aesthetic	D) Reduction of energy bills		
Maximum covered area for an industrial bu	uilding		
A) 40% of site area	B) 50% of site area		
C) 60% of site area	D) 70% of site area		
Carpet Area			
A) Total plot area – circulation area	B) Total circulation area – floor area		
C) Total floor area – circulation area	D) Total area of floor – wall area		
Nominal size bricks needed for 1m ³ of bricks	ck work		
A) 500 B) 1000	C) 650 D) 450		
Process of determining the value of the pro	roperty or the fair price of property		
A) Valuation	B) Fixation		
C) Estimation	D) Taxation		
In which irrigation method, water is supplied	d to lower level by the action of gravity?		
A) Flow B) Lift	C) Sprinkler D) Sub-surface		
What is the relation between Duty (D), Delt	elta (Δ) and Base period (B) ?		
A) $\Delta = (86.4B/D)$	B) $\Delta = (864B/D)$		
C) $\Delta = (8.64B/D)$	D) $\Delta = (8640B/D)$		
	 A) Per dia C) Per cm Which one is not included in job overhead A) Establishment C) Amenities of labour Importance of orientation of building A) Outdoor projection C) Aesthetic Maximum covered area for an industrial beat and an industrial beat an industrial beat and an industrial beat an industrial beat and an industrial beat and		

68.	3. What is the first watering before sowing the crop?				
	A) Kor watering	B) Paleo	C)	Delta	D) Duty
69.	Which is called as sa	fety valve of a dam?			
	A) Drainage gallery		B)	Inspection gallery	/
	C) Spill way		D)	Outlet sluices	
70.	What is the classifica	tion of dam based on	use	?	
	A) Detention	B) Gravity	C)	Rigid	D) Buttress
71.	When does hydrogra	ph called as unit hydr	ogra	aph ?	
	A) 1 cm of runoff from	n rainfall	B)	3 cm of runoff fro	m rainfall
	C) 1 mm of runoff fro	m rainfall	D)	3 mm of runoff fro	om rainfall
72.	72. Which is the main function of diversion head work of a canal?				
	A) To remove silt		B)	To control floods	
	C) To store water			To raise water lev	vel TIVE EXAMS
73.	Which is the main fac	ctor for selection of site	e fo	r a reservoir ?	
	A) Maximum runoff		B)	Maximum percola	ation
	C) Wide opening		D)	Minimum runoff	
74.	What is the name of	the structure placed in	ı riv	er to increase the	depth of water ?
	A) Barrage	B) Weir	C)	Notch	D) Crest
75.	Which element of hydrormed in the penstoo	droelectric power plan ck ?	t re	duce the water ha	mmer pressure
	A) Valves	B) Surge tank	C)	Turbines	D) Draft tubes
76.	Which canal is also k	nown as ridge canal ?	?		
	A) Contour	B) Watershed	C)	Side slope	D) Main

A -11-

77.	What is also known a	s canal fall ?				
	A) Canal syphon		B)	Canal drop		
	C) Super passage		D)	Aqueduct		
78.	Which cross drainage	work is constructed	to c	arry canal below d	rainage ?	
	A) Aqueduct		B)	Super passage		
	C) Level crossing		D)	Inlet		
79.	Which of the following external force ?	Which of the following is the cause of the property that allows liquid to resist an external force ?				
	A) Elasticity		B)	Compressibility		
	C) Viscosity		D)	Surface tension		
80.	Barometer is used to A) Pressure in pipes, B) Atmospheric press C) Very low pressure	channel etc.				
	D) Difference of pres	sure between two poi	nts			
81.	Which of the following i. Time is a fundame		rrec	et about units ?		
	ii. In FPS system of units, unit of length is Foot.					
	iii. Area is a derived	unit.				
	A) Only (i and ii)		B)	Only (i and iii)		
	C) All of the above (i,	ii and iii)	D)	Only (ii and iii)		
82.	2 kilograms is equal t	o poun	ds.			
	A) 4.41	B) 4.14	C)	5.004	D) 4.61	
83.	What is the base of a	a triangle having an a	rea	of 50 cm ² and hei	ght 100 mm ?	
	A) 10 mm	B) 10 cm	C)	5 cm	D) 15 mm	

84.	34. A wire bend in the form of a circle of radius 35 cm was reshaped to a square. Then what is the length of one side of that square?						
	A) 45 cm	B) 55 cm	C) 35 cm	D) 65 cm			
85.	How many litres of width = 0.5 metre ar			ving length = 1 metre,			
	A) 100	B) 200	C) 300	D) 400			
86.	How many spherica radius ?	l balls of radius 1	cm can be made fro	m a sphere of 15 cm			
	A) 3375	B) 3475	C) 3575	D) 3275			
87.	7. Which of the following statements is/are correct about energy? i. Energy of a body is its capacity to do work.						
	ii. Unit of energy is same as the unit of work.						
	iii. Energy of one fo	rm cannot be tran	sformed into energy	of another form.			
	A) Only (i)C) All of the above	CIVIL EN (i, ii and iii)	B) Only (i and D) Only (ii and	d ii) E TITIVE EXAMS d iii)			
88.	When an external for shape. This deforma		terial, there is a cha	inge in its dimension and			
	A) Young's modulus		B) Modulus o	f rigidity			
	C) Stress		D) Strain				
89.	Which of the following statements is/are correct about friction?						
	i. Limiting friction is less than rolling friction.						
	ii. Rolling friction is equal to sliding friction.						
	iii. Rolling friction is	always less than	limiting friction.				
	A) Only (i)		B) Only (ii)				
	C) Only (iii)		D) All of the a	bove (i, ii and iii)			

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90.		e rate of change of led	rate of change of displacement of a body in motion in a given direction is					
	A)	Velocity	B) Acceleration	C)	Deceleration	D) Momentum		
91.	91. What is mechanical advantage of a simple machine?							
	A)	Effort Load		B)	Load Effort			
	C)	Distance moved by		D)	Distance moved Distance moved			
92.	Th	The positive bending moment in a beam is often called moment.						
	A)	Polar	B) Hogging	C)	Sagging	D) None of these		
93.	3. Which of the following statements is/are correct about explode command?i. Breaks a compound object into its component objects.ii. When you start explode command, AutoCAD prompt you to select one or mor complex objects.							
	iii.	iii. If objects can't be exploded, AutoCAD displays how many objects could not be						
	N		and line.					
	,	Only (ii and iii)		,	Only (i and ii)			
	C)	Only (i and iii)		D)	All of the above (i, ii and iii)		
94.	Which among the following command is used to create a region or a polyline from					or a polyline from		
	an enclosed area ?							
	A)	BLOCK		B)	HATCH			
	C)	BOUNDARY		D)	BSAVE			
95.	Wh	Which of the following statements is/are correct about snap mode?						
	i. Restricts cursor movement to specified grid intervals.							
	ii. Tracks the cursor to increments along polar alignment paths.							
	iii. Snap mode is toggled using the F7 Key.							
	A)	Only (i and ii)		B)	Only (i and iii)			
	C)	Only (iii)		D)	All of the above (i, ii and iii)		

96.	Which of the following tool is used to conneradius?	ct two objects with an arc with a specified				
	A) Scale	B) Fillet				
	C) Array	D) Rotate				
97.	Which of the following statements is/are correct about ortho mode?					
	 i. If ortho mode is enabled, you will only be allowed to draw lines along the UCS axis. 					
	ii. If ortho mode is enabled, you will be able to draw lines at any angle.					
	iii. To toggle ortho mode on and off, press the F8 key.					
	A) Only (i and ii)	B) Only (iii)				
	C) Only (i and iii)	D) All of the above (i, ii and iii)				
98.	In AutoCAD, the keyboard shortcut Ctrl + 1 is used to					
	A) Print the sheet					
	B) Show drawing area only					
	C) Show properties palette					
	D) Open Quick Calculator					
99.	add or edit plotter configuration?					
	A) PLOTTER	B) PLOTSTYLE				
	C) PLOTTERMANAGER	D) PLOT				
100.	Which of the following in AutoCAD displays the cursor location, drawing tools and					
	tools that affect your drawing environment?					
	A) File Menu	B) Status Bar				
	C) Application Menu	D) Ribbon Panel				

Space for Rough Work



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