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Question Booklet Alpha Code



Total Number of Questions : 100

Time : 90 Minutes

Question Booklet SI. No

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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.

- 1. What is the area of A0 size drawing sheet ?
 - A) 0.00 square metre B) 1.00 square metre
 - C) 2.00 square metre D) 4.00 square metre
- 2. What is the use of french curves ?
 - A) To draw smooth curves
 - B) To draw irregular curves
 - C) To draw circles, ellipses, arcs
 - D) To write letters and numerals
- 3. What is the description of G2 in lines of symmetry ?
 - A) Chain thin
 - B) Chain thin double dashed
 - C) Dashed thick
 - D) Continuous thick
- 4. Which is a small shaped instrument of the drafting machine ?
 - A) T scale B) Scale set
 - C) Mini drafter D) Planimeter
- 5. What is the height in mm for title of drawing ?
 - A) 3, 4 B) 10, 12 C) 6, 8 D) 4, 5
- 6. Which of the following is not a linear scale ?
 - A) Plain scale B) Diagonal scale
 - C) Scale of chord D) Comparative scale
- 7. What is the line of intersection of the picture plane with ground plane ?
 - A) Station point B) Picture plane
 - C) Ground plane D) Ground line

8.	What is the sum of the interior angle and the corresponding external angle of a polygon ?			
	A) 0°	B) 180°	C) 90°	D) 360°
9.	What is the standard	line thickness of the	border line ?	
	A) 0.10 mm	B) 0.60 mm	C) 0.15 mm	D) 0.20 mm
10.	What is the point at w	which the conic cuts it	s axis ?	
	A) Locus		B) Axis	
	C) Directrix		D) Vertex	
11.	How many metres eq	juals one nautical mil	e ?	
	A) 100 m		B) 1000 m	
	C) 1674 m		D) 1852 m	
12.	What is the length of	one link in Engineers	s chain ?	
	A) 20 centimetres		B) 30 centimetres	
	C) 1 foot		D) 2 1/16 feet	
13.	What is the angle wh	ich the needle makes	with horizontal ?	
	A) Declination		B) Dip	
	C) Bearing		D) Local attraction	
14.	What is the name of t survey ?	riangle formed by join	ing the three ground p	points in plane table
	A) Well conditioned t	riangle	B) Equilateral triang	gle
	C) Great triangle		D) Scalene triangle	
15.	Which test is done to theodolite ?	make the horizontal	axis perpendicular to	vertical axis of a
	A) Plate level test		B) Cross hair ring to	est
	C) Collimation test		D) Spire test	

16. Where two contours of different elevation cross each other ? A) Vertical cliff B) Overhanging cliff C) Uniform slope D) Valley 17. Where 0° is marked in prismatic compassis ? A) North B) South D) West C) East 18. What is used to take inclined line of sights in plane table surveying? A) U frame B) Plain alidade D) Prismatic compass C) Telescopic alidade 19. What colour is used for symbol for road metalled ? A) H-green B) Burnt sienna C) Crimpson lake D) Burnt blue 20. What is the fullform of UTM? A) Universal Transverse Meridian B) Universal Transverse Mercator C) Universal Transportation Media D) Universal Traverse Median The permissible closing error for accurate levelling is expressed as A) E ± 0.100 √Km B) E ± 0.025 √Km D) E ± 0.006 √Km C) E ± 0.012 √Km 22. What is the term used for rotating telescope in clockwise direction about its vertical axis? A) Transiting B) Right swing

C) Left swing D) Plunging

- 23. What is meant by the departure of a line ?
 - A) Projection onto the east-west meridian
 - B) Projection onto the north-east meridian
 - C) Projection onto the south-east meridian
 - D) Projection onto the north-west meridian
- 24. What is the term used for line joining the optical centre of the object glass and the centre of the eye piece ?
 - A) Line of collimation B) Horizontal line
 - C) Axis of telescope D) Height of instrument
- 25. What is the basis of GPS ?
 - A) Traversing
 - C) Resection

- B) Trianulation
- D) Radiation
- 26. Which of the following is the choice of co-ordinate for specifying the position of a point ?
 - A) Latitude, departure and elevation
 - B) Southing, latitude, departure
 - C) Northing, southing, easting
 - D) Latitude, longitude and elevation
- 27. The shortcut key for undo last action in AutoCAD
 - A) Ctrl+Z B) Ctrl+Y
 - C) Ctrl+Shift+C D) Ctrl+Shift+V
- 28. What is dpi in printing ?

- A) Dash per inch B) Dots per inch
- C) Dash printing ink D) Dot printing ink
- 29. What factor mainly determines the quality of a monitor ?
 - A) CPU B) Colour
 - C) Resolution D) Hard disk

30. Which command controls the extents of the display of the grid ?

30.	Which command controls the extents of the	e display of the grid ?
	A) Area	B) Dimension
	C) Limits	D) Display
31.	Which command reinserts the last erased s	set of objects ?
	A) OOPS	B) REINSERT
	C) REDO	D) COPY
32.	Which is the shortcut key for polar tracking	ON/OFF ?
	A) F3	B) F7
	C) F8	D) F10
33.	Which of the following command is used to one or more objects ?	o copy the properties from one object to
	A) CHPROP	B) Block
	C) Match properties	D) Insert block
34.	To study the mineral constituents grain size	e etc. is test.
	A) Microscopic	B) Smiths
	C) Water absorption	D) Acid
35.	The total height of a clamp kiln is about	
	A) 30 cm to 4 mm	B) 4 m to 6 m
	C) 10 cm to 20 cm	D) 3 m to 4 m
36.	I.S. code of clay terracing tiles	
	A) 1464 – 1959	B) 654 – 1972
	C) 2690 – 1964	D) 712 – 1973

37. I.S. code of psc

A)	455 – 1989	B) 12330 – 1988
C)	12600 – 1989	D) T40 – 1985

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- A) Impurity test B) Workability test
- C) Plasticity test D) Ball test
- 39. In a mortar, the binding material is
 - A) Sand B) Cement
 - C) Surkhi D) Clay

40. The sand particles which sand pass through 1.5875 mm is sieves are known as

- A) Coarse sand B) Gravelly sand
 - C) Mud sand D) Fine sand
- 41. Grass or air bubbles are introduced into the plastic-cement mortar mix to produce a material with a cellular structure
 - A) Cellular concrete B) Light weight concrete
 - C) No fines concrete D) Heavy weight concrete

42. Hot rolled deforming bars conforming to I.S. code

A) 1139B) 1785C) 1566D) 226

43. These piles are driven at an inclination to resist larger horizontal or inclined forces

- A) Sheet piles
 B) Anchor piles

 O) Fanalan giles
 D) Patter giles
- C) Fender piles D) Batter piles
- 44. Minimum height 50 mm only three stones are to be used to make up the height of one course, mortar joint is 16 mm
 - A) Coursed rubble (1st sort) B) Coursed rubble (2nd sort)
 - C) Coursed rubble (3rd sort) D) Coursed rubble (4th sort)
- 45. It prevent the tendency of stone joint to pull apart. This joint is used instead of dowel joint.
 - A) Cramped joint B) Plugged joint
 - C) Butt joint D) Dowelled joint

46.	roof has	four sloping sides wi	th z	ero vertical roof lir	ies.
	A) Gable		B)	Hip	
	C) Sheet		D)	Gambrel	
47.	This truss is in the for	rm of a bow			
	A) Steel truss		B)	Truncated truss	
	C) Latticed roof truss	3	D)	Mansard truss	
48.	Single joist timber flo	or is adopted for max	imu	m span of	
	A) 4.6 m	B) 3.6 m	C)	7.5 m	D) 4 m
49.	Vertical members of I	brick layers scaffoldin	g ar	e called	
	A) Ridge		B)	Put logs	
	C) Improved		D)	Standards	
50.	For protecting the co locations.	ping and parapets		should be p	provided at various
	A) D.P.C.		B)	White wash	
	C) Cement		D)	Plaster	
51.	Garnet hinge used in				
	A) Batten, ledged an	d braced door	B)	Lantern window	
	C) Sky light window		D)	Gate	
52.	Minimum slope of rar	np			
		B) 1 in 20	C)	1 in 10	D) 1 in 50
53.	This step has a curve	ed rise and tread			
	A) Lift step		B)	Dancing step	
	C) Commode step		D)	Splayed step	
54.	The timber of evergre	een trees that are soft	in r	nature	
	A) Hard wood		B)	Annual rings	
	C) Medullary rays		D)	Soft wood	

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55. A projecting moulded stone having its under surface throated is called

- A) Drip stone B) Hard stone
- C) Soft stone D) Through stone

56. The geometrical point from where the curve of the arch is drawn

- A) Ring course B) Crown
- C) Centre D) Clear span
- 57. Front open space residential building should be provided with a front yard of minimum width of ______ m.
 - A) 3 B) 6 C) 3.50 D) 6.50
- 58. The minimum width of a habitable room shall be _____ m.

 A) 3.4
 B) 4.40
 C) 5.40
 D) 3.00
- 59. NBC of India 1979 types of buildings Group E
 - A) Business building B) Assembly building
 - C) Institutional building D) Residential building

60. The total usable covered area of a building

- A) Covered areaB) Plinth areaC) Floor areaD) Open area
- 61. Horizontal circulation area it may be _____ of plinth area.A) 10% to 12%B) 10% to 15%
 - C) 10% to 13% D) 10% to 20%

62. Estimation process helps in working out the _____ of construct.

- A) Labour B) Rate of materials
- C) Plot value D) Cost
- 63. Unit of payment in cement lime concrete on terracing is

A) Cu:m	B) Sq : m	C) S : ft	D) C : ft
/	/ 1	,	/

64.	. Construction work is allowed after receiving of					
	A) Cost		B)	Bill of materials		
	C) Contingencies		D)	Technical sanctic	n	
65.	Unit of payment in da	amp proof course of ce	eme	ent concrete		
	A) sq.m	B) cm ²	C)	cft	D)	cu.m
66.	Portable pipes or larg	ger hoses may also be	e us	ed in place or ditcl	hes	
	A) Border flooding		B)	Free flooding		
	C) Basin flooding		D)	Check flooding		
67.	When the water is av mere action of gravity	-	el, a	and it is supplied to	o lov	ver level by the
	A) Artificial irrigation		B)	Flow irrigation		
	C) Lift irrigation		D)	Well irrigation		
68.	It is the ratio of the m	ean supply discharge	to t	he full capacity dis	scha	irge
	A) Time factor		B)	Base factor		
	C) Intensity factor		D)	Capacity factor		
69.	Masonry gravity dam	is are now-a-days con	stru	icted of only		height.
	A) Small		B)	Big		
	C) Medium		D)	Full width		
70.	A gravity dam may b	e either p	lan.			
	A) Curved	B) Beveled	C)	Circle	D)	Straight
71.	The water thus accur	mulated in the form of	an	artificial lake is kno	own	as
	A) Pond	B) Reservoir	C)	River	D)	Streams
72.	A gravity dam is the	one in which the exter	nal	force such as		
	A) Vacuum pressure)	B)	Wind pressure		
	C) Waver pressure		D)	Pressure in pipe		

73.	A notch is usually made of pla	ate.
	A) Metallic	B) Iron
	C) Aluminium	D) G.I.
74	Canal over the drainage	
	A) Super passage	B) Canal siphon
	C) Aqueduct	D) Level crossing
	e) / (quoudot	2) 2000 01000g
75.	The use of water for raising the crops is k	known as
	A) Irrigation	B) Water supply
	C) Field	D) Corps
76.	The structure, made to pass surplus floo of the dam is known as	d water from reservoir to the downstream
	A) Canal	B) Spill way
	C) Weir	D) River
77.	The solid obstruction constructed across known as	the river to raise the water level in river is
	A) Canal	B) Dam
	C) Weir	D) Reservoir
78.	It is passage for the flow of surplus water	or waste in a weir or conduct
	A) Head work	B) Heard regulator
	C) Spill way	D) Level passage
79.	It include the waste discharge from sink,	bath and wash basin
	A) Garbage	B) Sullage
	C) Sewer	D) Sewerage
80.	The flow of the water in the channel may seasonal	be continuous for the whole year or
	A) Lift irrigation	B) Non-perennial irrigation
	C) Artificial irrigation	D) Perennial irrigation

C) Arch dam D) Gravel dam 82. A ______ is a horizontal member which lintel is placed across an to support the position of the structure above it. B) Lock frame A) Bottom rail C) Sill level D) Door frame 83. What is the minimum area of window with respect to floor area ? A) 10% of floor area B) 25% of floor area C) 5% of floor area D) 2% of floor area 84. Hydraulic turbines are the machines which convert water energy into A) Solar energy B) Electrical energy C) Power energy D) Mechanical energy 85. Pelton wheel is a A) Tangential flow turbine B) Radial flow turbine C) Mixed flow turbine D) Axial flow turbine 86. Irrigation capacity of a unit of water is A) Delta B) Base period C) Time factor D) Duty 87. Trees grow length wise through their ends A) Exogenous B) Endogenous

B) Rock filling dam

C) Soft wood D) Hard wood

81. The dam made of earth is known as

A) Earthen dam

88.	Ce	ment paint is add	ed in			
	A)	Water		B)	Thinner	
	C)	Spirit		D)	Turpentine	
89.	10	00 cubic feet =	litres.			
	A)	28317		B)	28.317	
	C)	283.17		D)	0.28317	
90.		ference between of the circle.	circumference and diar	nete	er of a circle is 60 o	cm. Find the radius
	A)	10 cm	B) 12 cm	C)	14 cm	D) 16 cm
91.	Un	it of temperature i	n SI system			
	A)	Kelvin		B)	°Fahrenheit	
	C)	°Celcius		D)	Calorie	
92.		nat is the height of 80 Cub.mtr ?	f a cylindrical tank of b	ase	area 154 Sq.cm a	and Volume
	A)	50 m	B) 40 m	C)	30 m	D) 20 m
93.		w many spherical	balls of 2 cm radius c	an b	be made from a sp	here of 24 cm
	A)	216 balls		B)	316 balls	
	C)	214 balls		D)	314 balls	
94.	1 F	1P =	Kg.m/s.			
	A)	4500		B)	33000	
	C)	75		D)	550	
95.	Th	e ratio between th	e ultimate stress and t	he	working stress is c	alled
	A)	Factor of safety		B)	Load Factor	
	C)	Young's Modulus	8	D)	Safe Stress	

96. Find the efficiency of a machine having velocity ratio 5, if a force of 250 kg is applied to lift a weight of 1000 kg with the help of simple machine.

	A) 75 %	B) 80 %
	C) 85 %	D) 90 %
97.	Which of the following is not a unit of powe	er ?
	A) Nm/s	B) J/s
	C) Watt	D) Nm
98.	Which force act on rivet ?	
	A) Tensile Force	B) Shear Force
	C) Compressive Force	D) Bending Force
99.	A stone is thrown vertically upwards with a height to which it travels. (Taken g = 10 m/s	
	A) 45 m	B) 50 m
	C) 55 m	D) 60 m

100. The ratio of stress to strain within elastic limit is known as

- A) Modulus of Elasticity B) Poisson's Ratio
- C) Factor of Safety D) Yield Point

Space for Rough Work