Question Booklet No.

000241

Skill Development and Entrepreneurship Department Directorate of Vocational Education and Training Directorate of Skill Development, Employment and Entrepreneurship Question Paper Group Name: CIVIL-1

Question Paper Post Names: Craft Instructor - Draftsman-Civil, Surveyor

	Duration: 60 Minutes To	Total Question			40	
_	INSTRUCTIONS			_		
1.		idate	finds	any	probl	em
2.	Candidate has to write his/ her seat number in this block.					
3.	3. The Question Booklet Number as printed above should be mentioned at					_
	the appropriate place on the OMR Answer Sheet.		•			
4.	4. All the Questions are provided with 4 options as 1, 2, 3 and 4. Candidate should select the mention the Option Number on the OMR Answer Sheet in front of the respective Question the Option Number with <u>BLACK INK BALL POINT PEN</u> Only.					
5.	All Questions carry equal marks i.e. 1 Question has a weightage of 1 marks. Candidate should for the examination and solve the questions accordingly.	d min	d the	avail	able ti	me
6.	The option shaded once on the OMR Answer Sheet should not be roughed or in any other way changed. Thus candidate should take utmost care while marking their options on OMR Answer Sheet. Such changes if any or any attempt to rough/ change options shall not be checked by the authorities.					
7.	Marks shall be awarded to the correct answers only during the evaluation of the OMR Answer Sheet. No marks shall be					
	deducted for registering wrong answers (shading wrong option) or not attempting ques NEGATIVE MARKING SYSTEM.	tions	. Thu	s the	ere is j	<u>NO</u>
8.	8. All the rough work has to be done on the sheet provided for Rough Work in the Questi	on Bo	ooklet	t only	. Writ	ing

means and entitle for action under "Prohibition of Unfair Practices during examination Ordinance – 1982".

9. Method of Shading the Correct Option on the OMR Answer Sheet:

Q.No. 25. How many Centimeters make 1 Meter?

(1) 10

(2) 100

anything on the Question Paper Booklet, OMR Answer Sheet or any other Paper Sheet shall be treated as an unfair

(3) 1000

(4) 10000

The Correct Option for this Question is (2) and hence the (2) option on the OMR Answer Sheet in front of Question Number 25 has to be shaded as following

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Correct Method of Shading

Wrong Method of Shading

USE ONLY BLACK INK BALL POINT PEN FOR SHADING

IMPORTANT

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THIS QUESTION PAPER BOOKLET AND PART - 1 OF OMR ANSWER SHEET HAVE TO BE SUBMITTED TO THE INVIGILATOR AFTER THE EXAMINATION.

	1. 75 mm	2. 80 mm
	3. 85 mm	4. 90 mm
2. Sca	le is 20 cm = 1.0 m. The representative Fraction (R.F) is
	1. 1: 20	2.1:2
	3.1:5	4. 1: 50
3. 540	metres is represented by 15 cm in drawing. In d	rawing hence 500 metres shall be represented as
	1. 13.5 cm	2. 13.3 cm
	3. 13.9 cm	4. 14.0 cm
4. Firs	st important adjustment of transit theodolite is to	make the axes of the plate level
	1. Perpendicular to the vertical axis	2. Parallel to vertical axis
	3. Tangent to vertical axis	4. In line with the vertical axis
5. The	e shape of an ellipse in autocad drawing is determ	nined by
	1. Two axes	2. Two radius
	3. Two diameters	4. Two circle
6. A1	achometer at A with vertical angle +10° 0' has ha	ir readings 0.952, 1.055, 1.158. The stadia intercept "S" is
	1. 0.208	2. 0.206
	3. 0.103	4. 0.105
7. The	e tachometer telescope should be fitted with	
	1. An anallatic lens	2. Contact lens
	3 Focal lens	4 Convex lens

1. Cutting plane line thickness is

- 8. If the fore hearing of a line is N26° 35' W, its back bearing will be
 - 1. S 26° 35' E

2. S 26° 35' W

3. N 26° 35' E

- 4. N 53° 25'W
- 9. If "R" is radius of the curve and " ϕ " is deflection angle. The total length of the curve is equal to
 - 1. ∏Rф

 $2.\frac{\prod R\varphi}{90}$

 $3.\frac{\prod R\varphi}{180}$

- $4.\frac{\prod R\varphi}{360}$
- 10. When the length of a chain along a slope of θ is "I", the corrections for slope required is
 - 1. $|\operatorname{Sin}^2(\frac{\theta}{2})|$

2. $I Cos^2(\frac{\theta}{2})$

3. $\frac{l}{2} \sin^2(\frac{\theta}{2})$

- 4. $\frac{l}{2}$ Con²($\frac{\theta}{2}$)
- 11. Two points A and B are 1530 m apart across a wide river. The following reciprocal levels are taken with one level

Level	Readi	ngs
	Α	В
Α	2.165	3.810
В	0.910	2.355

The true difference in level between A and B should be

1. 1.255 m

2. 1.455 m

3. 1.545 m

- 4. 1.645 m
- 12. On completion of temporary adjustments for plane table is expected to the
 - 1. Properly leveled

- 2. Accurately centered
- 3. Accurately centered and oriented
- 4. Accurately centered, properly oriented and leveled
- 13. In brick masonry with Flemish bond in one course there are
 - 1. All headers

- 2. All stretchers
- 3. Alternate header end stretcher in some cause
- 4. Alternate header and stretcher course

14. A stone used for full thickness of wall in stone maso	nry is called as
1. Quoin stone	2. Header stone
3. Through stone	4. Rubble stone
15. The maximum load which will cause failure of a four	ndation is called as of the soil
1. Ultimate tensile strength	2. Ultimate normal strength
3. Ultimate compressive strength	4. Ultimate hearing strength
16. In a ground having low bearing strength and heavy	load of foundation generally supported by providing
1. Combined footing	2. Strap footing
3. Raft footing	4. None of the above
17. Pile foundation is generally used when soil is	
1. Compressible	2. Water logged
3. Soft clayey soil	4. All of the above
18. A temporary structure constructed for carrying out	construction across river to divert water is called
1. Caisson	2. Well foundation
3. Cofferdam	4. Pile foundation
19. For stability of scaffolding to prevent its movement	t, we must provide
1. Putlogs	2. Ledgers
3. Working platform	4. Diagonal tracing
20. A queen closer in brick masonry construction is use	full for
1. Breaking the joints in successive courses	2. Making good appearance
3. Matching with king closer	4. Making course complete at end

21. The arrangement of supports provided unde known as	erneath the existing structures without disturbing its stability as
1. Underpinning	2.Scaffolding
3. Shoring	4. Jacketing
22. A horizontal member of stone, concrete or window is called.	wood provided to give support for the vertical members of
1. Jamb	2. Sill
3. Reveal	4. Quoin
23. The size of a step commonly adopted for res	ridontial buildings
• • • •	-
1. 25 cm X 15 cm	2. 28 cm X 18 cm
3. 30 cm X 20 cm	4. 20 cm X 12 cm
24. The projections which help in fixing the head	d of a door frame to the masonry are called as
1. Reveals	2. Stops
3. Horns	4. Styles
25. In sloping roof, the inclined wooden member	ers laid from the bridge to the eaves board are known as
1. Hip Rafters	2. Jack Rafters
3. Common Rafters	4. Valley Rafters
26. Which is not a carpentry fastening tool?	
1. Bolt	2. Nail
3. Screw	4. Calculator
27. Tiles used in bathrooms	
1. Marble	2. Glass
3. Cement	4. Dado

	1. At all changes of directions	2. At all changes of gradients				
	3. At all junctions of main and branch sewers	4. All of the above				
29. A p	ipe installed for ventilation purpose					
	1. Waste pipe	2. Vent pipe				
	3. Soil pipe	4. Anti-Siphonage pipe				
30. The	e minimum thickness of the base of a flexible per	manent is kept on				
	1. 5 cm	2. 10 cm				
	3. 15 cm	4. 20 cm				
31. The quantity of liquid waste which flows to sewers during rainy season is called						
	1. Sewage overflow	2. Storm sewage				
	3. Industrial waste	4. Dry weather flow				
32. The	e number of vehicles passing at a point on the hig	ghway in unit time is known as				
	1. Traffic capacity	2. Traffic volume				
	3. Traffic density	4. All of the above				
33. The	e broad gauge is width.					
	1. 0.6096 m	2. 0.762 m				
	3. 1. 00 m	4. 1.676 m				
34. To reduce the wearing of rails the ratios are placed at an						
	1. Inward slope of 1 in 20	2. Outward slope of 1 in 20				
	3. Inward slope of 1 in 30	4. Outward slope of I in 30				

28. Manholes are generally located

	35.	The be	aring	plates	are used to	fix	rails on	wooden	sleepers
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1. Float footed

2. Full headed

3. Double headed

4. Dimple headed

36. If Δ is the depth of water in meters, B is the number of days of base period and D is the duty in hectares/cume is the relationship which holds good between them is

1. D =
$$\frac{\Delta 8.64 D}{B}$$

2. B =
$$\frac{\Delta 8.64 D}{D}$$

3. D =
$$\frac{8.64 \,\Delta}{B}$$

4.
$$\Delta = \frac{8.64 \text{ B}}{D}$$

37. Dead storage in a reservoir is provided to

1. Invigilate the floods

- 2. Increase the useful life period
- 3. Meet the emergency needs
- 4. Accommodate the silt trapped in the reservoir

38. According to Indian standards institute the actual size of modular bricks is

1. 23 cm X 11.5 cm X 75 cm

2. 25 cm X 13 cm X 75 cm

3. 19 cm X 9 cm X 9 cm

4. 20 cm X 10 cm X 10 cm

39. The volume of cement in a 50 kg bag is

1. 27 litres

2. 34.7 litres

3. 44.7 litres

4. 42.9 litres

40. Quantities for woodwork are computed generally in terms of

1. Numbers

2. Numbers and sizes

3. Area in square metres

4. Volume in cubic metres

SPACE FOR ROUGH WORK