SURVEYOR GRADE-II

YEAR OF ADVT: 2016

DATE OF EXAM: 30-AUG-2018

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

QUESTION BOOKLET

Subject: General English, General Knowledge, Civil Engineering

BOOKLET SERIAL NO.

240077

Marks: 300

Time: 3 (three) hours

SERIES I

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This booklet contains **150 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following three parts.

Part-A-General English: 25 questions, Part-B-General Knowledge: 25 questions, Part-C-Civil Engineering: 100 questions.

- 2. All Questions are compulsory.
- 3. You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.
- 4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/double series marking shall not be evaluated.

Example:

Supposing the following question is asked:-

The Capital of Meghalaya is-

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below:

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative C i.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below:-

(A) (B) (D)

WHICH IS THE ONLY CORRECT METHOD OF ANSWERING:

- 5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
- 6. There will NOT be any negative marking for wrong answers.
- 7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
- 8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

PART - A - GENERAL ENGLISH

Marks :50

Each question carries 2 marks:		9. Everyone has to take the medicine	
		want to or not	
Directions: In question 1-5, some parts of the sentences have errors and some have none. Find out which part of a sentence has an error and mark the corresponding letter (a,b,c). If there is no error mark (d) as the answer.		a) even though they c) whether they	b) in spite of he d) whether he
		10. The hotel was small attractive a) in spite of b) but quite c) despite of d) otherwise its	
1. Sam was the first (a) / person who congratulate (b) / me on my success (c) / No error (d)		Directions: In question 11-15, choose the word (s) which best expresses the meaning of the given word.	
2. They dig up the clay (a) / to make a bricks (b) / earthen ware and pots (c) / No error (d)		11. Fatherly a) adaptable	b) parenting
3. It is so very hot (a) / that the vegetables in		c) strict	d) paternal
* * * * *	rish soon (c) / No error	12. Damp	
(d)		a) dank	b) temporary
4. Pollution of the environment (a) / is the most		c) wicked	d) uncomfortable
hazardous (b) / for he		12 T-:1	graithe.
		13. Toil	b) dandgam
5. Are you thinking of job (c) / No error (d)	(a)/joining a (b)/better	a) constant c) laziness	b) drudgery d) inaction
D: // T	(10 (11) - 11	14. Deceitful	
	stion 6-10, fill in the	a) cleverness	b) difficult
blanks with appropriate word (s) from the given alternatives.		c) deceptive	d) decrease
1	* · · · · · · · · · · · · · · · · · · ·	15. Shy	
you can go outside.	inished your breakfast	a) bashful	b) bold
a) in spite of	b) although	c) brave	d) fearful
c) and also	d) as soon as		estion 16-20, there are
7. Adam is making a lot of progess in school he hasn't studied much a) even though b) in spite of		four different words out of which one is correctly spelt. Find the correctly spelt word.	
c) despite that			
	he is enjoying	16. a) acustom c) accustom	b) accusstom d) accusttom
the party very much	ne is enjoying	17) 01	1) (1)
a) even though	b) such as	17. a) Changeable	b) Changeablle
c) as if	d) so much	c) Changable	d) Changeabble

- 18. a) Endictment
- b) Indictment
- c) Indectment
- d) Endictement
- 19. a) Conseede
- b) Conceede
- c) Conceed
- d) Concede
- 20. a) Hindrance
- b) Hindedrance
- c) Hindrancce
- d) Hindderence

Directions: In question 21-25, choose the word (s) which best expresses the opposite meaning of the given word.

- 21. Endanger
- a) dangerous
- b) safeguard
- c) expose
- d) explode
- 22. Hysteria
- a) calm
- b) confuse
- c) wild
- d) cry
- 23. Profound
- a) control
- b) serious
- c) superficial
- d) genuine
- 24. Proliferate
- a) abundance
- b) increase
- c) deceive
- d) decrease
- 25. Relegate
- a) downgrade
- b) upgrade
- c) graceful
- d) stunning

PART - B - GENERAL KNOWLEDGE

Marks:50

Each question carries 2 marks:

- 26. Mizoram shares the international boundary with
- a) Myanmar and Bangladesh
- b) Bhutan and Bangladesh
- c) Tibet and Bangladesh
- d) China and Bangladesh
- 27. The District headquarter of South West Garo Hills is
- a) Resubelpara
- b) Williamnagar
- c) Baghmara
- d) Ampati
- 28. The Ministry of Development of North Eastern Region (DONER) was formed in
- a) 2000
- b) 2001
- c) 2002
- d) 2003
- 29. The term 'Fourth Estate' refers to
- a) The Parliament
- b) The Supreme Court
- c) The Press
- d) The Opposition Party
- 30. A 'Hung Parliament' occurs when
- a) two political parties gets equal number of seats
- b) every party claims to form the government
- c) no political party has a majority
- d) there is no opposition political party
- 31. The policy of 'Mixed Economy' refers to an economy where
- a) both agriculture and industry are promoted by the state
- b) there is co-existence of the public sector and the private sector
- c) there is co-existence of large scale and small scale industries
- d) the economy is controlled by both the state governments and central government
- 32. The Muslim Women (Protection of Rights

- on Marriage) Bill 2017 [Triple Talaq Bill] was passed by the Lok Sabha on
- a) August 2017
- b) October 2017
- c) December 2017
- d) January 2018
- 33. The present Chief Justice of the Supreme Court of India is
- a) Dipak Misra
- b) Jagdish Singh Khehar
- c) Tirath Singh Thakur
- d) Handyala Lakshminarayanaswamy Dattu
- 34. Which part of the human eye can be transplanted?
- a) Retina
- b) Lens
- c) Cornea
- d) Sclera
- 35. A Rainbow is caused by
- a) absorption of sunlight in minute water droplets
- b) diffusion of sunlight through water droplets
- c) ionisation of water deposits
- d) refraction and reflection of sunlight by water droplets
- 36. Which of the following instruments can be used to measure an earthquake?
- a) Barometer
- b) Pluviometer
- c) Seismograph
- d) Anemometer
- 37. WhatsApp Messenger was founded in 2009 by
- a) Brian Acton and Jan Koum
- b) Kevin Systrom and Mike Krieger
- c) Mark Zuckerberg and Eduardo Saverin
- d) Biz Stone and Evan Williams
- 38. A Nuclear family refers to
- a) Husband and wife
- b) Husband, wife and daughters
- c) Husband, wife and sons
- d) Husband, wife and their children
- 39. Human Rights Day is celebrated annually

across the world on

- a) 8th March every year
- b) 5th June every year
- c) 5th September every year
- d) 10th December every year
- 40. The present Secretary General of the United Nations is
- a) Ban Ki Moon
 - b) Antonio Guterres
- c) Kofi Annan
- d) Boutros Boutros-Ghali
- 41. Which of the following films got the best picture award at the 90th Academy Awards ceremony held on March 4, 2018?
- a) Call Me By Your Name
- b) Dunkirk
- c) The Shape of Water
- d) Lady Bird
- 42. Which of the following terms are associated with tennis?
- a) Arm Ball, Bat-Pad, Bump Ball and Cross bat
- b) Bladed shot, Bunker, Backspin and Eagle
- c) Double play, Ground ball, Pinch hitter and Strike zone
- d) Air ball, Carry, Fast break and Lay-up
- 43. Which is the largest state (area-wise) in the North-East Region?
- a) Assam
- b) Arunachal Pradesh
- c) Manipur
- d) Meghalaya
- 44. The Right of Children to Free and Compulsory Education Act or Right to Education Act (RTE) was enacted on
- a) 12th October 2005
- b) 26th October 2006
- c) 1st November 2007
- d) 4th August 2009
- 45. What is the full form of an USB computer device?
- a) Universal Security Block
- b) Universal Serial Bus
- c) Universal Smart Bus
- d) Universal Standard Bus

- 46. Who wrote the book 'Das Kapital'?
- a) Karl Marx
- b) Jeremy Bentham
- c) Thomas Hobbes
- d) Karl Mannheim
- 47. Which of the following is India's longest river bridge?
- a) Bandra-Worli Sea Link (Maharashtra)
- b) Mahatma Gandhi Setu (Bihar)
- c) Dhola-Sadia Bridge (Assam)
- d) Vidyasagar Setu (West Bengal)
- 48. What is the full form of 'https' in computer networking?
- a) Home Text Transport Protocol Secure
- b) Hyper Text Transport Protocol Secure
- c) Hyper Text Transport Program Secure
- d) Home Text Transport Protocol Search
- 49. Who among the following was popularly known as the 'Frontier Gandhi'?
- a) Maulana Abul Kalam Azad
- b) Jawaharlal Nehru
- c) Muhammad Ali Jinnah
- d) Khan Abdul Ghaffar Khan
- 50. Who among the following was known as the 'Iron man of India'?
- a) Sardar Vallabhbhai Patel
- b) Subhash Chandra Bose
- c) Jawaharlal Nehru
- d) Govind Ballabh Pant

PART - C - CIVIL ENGINEERING

Marks:200

Each question carries 2 marks:

- 51. The Correct Sequent to proceed in new highway project is
- a) Reconnaissance, Preliminary Survey, Map Study, Detailed Survey
- b) Map Study, Reconnaissance, Preliminary Survey, Location of final alignment
- c) Map Study, Reconnaissance, Preliminary Survey, Detailed Survey
- d) Detailed Survey, Map Study, Reconnaissance, Preliminary Survey
- 52. Road construction in olden days based on large foundation of stones, was first done by
- a) Metcalf
- b) Telford
- c) Maccadam
- d) Harrison
- 53. For highway in hilly areas where radius changes quickly and land width is restricted the type of curve so provided is
- a) Spiral
- b) Lemniscate
- c) Parabola
- d) Cubic Parabola
- 54. On a highway when there is a presence of lamp post, telephone kiosks, distance stone traffic sign etc. they are termed as
- a) Road furniture
- b) Road amenities
- c) Road utility
- d) Road helper
- 55. The Characteristic of road aggregate to resist fracture under load is termed as
- a) Hardness
- b) Crushing
- c) Toughness
- d) Attrition
- 56. In bitumen the mixture of two immiscible liquid is known as
- a) Cutback
- b) Rapid curing
- c) Bitumen emulsion
- d) Bituminous asphalt
- 57. The maximum temperature at which the binder can be safely heated without being ignited that temperature is termed as
- a) Fire point
- b) Flash point

- c) Softening point
- d) Ignition point
- 58. The capacity refer to the maximum numbers of vehicles passing a given point in one hour under prevailing roadway and traffic conditions is called
- a) Possible capacity
- b) Basic capacity
- c) Traffic capacity
- d) Practical capacity
- 59. Once the Structure is completed the property of concrete that controlled corrosion is
- a) Strength
- b) Ductility
- c) Stress
- d) Permeability
- 60. The deterioration of concrete generally due to sulphate attack occur at
- a) Roof slab
- b) Side wall
- c) Foundations
- d) Floor level
- 61. In RCC the section is termed a balanced section when
- a) The yield strain of tension steel is simultaneous with failure strain of concrete
- b) The failure strain of tension steel is simultaneous with failure strain of concrete
- c) No strain occur
- d) Minimum stress occur
- 62. The distance measured from concrete surface to the nearest surface of reinforcing bar is known as
- a) Minimum cover against slippage
- b) Minimum cover against corrosion
- c) Nominal cover of reinforcement
- d) Concrete cover
- 63. In formwork of concrete plastic sheet are used during shuttering work to prevent leaking of water which inturn will
- a) Prevent honeycomb formation
- b) Enhanced workability
- c) Enhanced consistency
- d) Increased density
- 64. The temperature in which plastic shrinkage

cracking occur during concreting work is

- a) Below 20°C
- b) Above 20°C
- c) Above 30°C
- d) Above 40°C

65. In concrete mix harshness results due to

- a) Large size coarse aggregate
- b) Smaller size coarse aggregate
- c) Too coarse a fine aggregate
- d) Too fine a fine aggregate

66. The highest speed of turbine at maximum head with wicket gates fully opened is known as

- a) Runaway speed
- b) Turbine speed
- c) Maximum turbine speed
- d) Runner speed

67. The difference between measured pressure value and its atmospheric pressure with zero as the arbitrary datum is known as

- a) Vacuum pressure
- b) Relative pressure
- c) Absolute pressure
- d) Relative surface pressure

68. When a dye is injected into a liquid to trace the subsequent motion of fluid particles passing a fixed point, then the path followed by the dye is known as

- a) Streamline
- b) Pathline
- c) Flow line
- d) Streakline

69. If the fluid and the flow characteristics such as density, velocity, pressure acceleration at a point donot change with time the flow is called

- a) Steady
- b) Non steady
- c) Uniform
- d) Non Uniform

70. When water flow through pipeline the phenomenon of abrupt increase in pressure caused by rapid closure of valve is known as

- a) Surge
- b) Diffusion
- c) Rapid drawdown
- d) Water hammer

71. The relation between the quantity of water and the area of the crop which it mature is known as

- a) Delta of crop
- b) Duty of water
- c) Yield of soil
- d) Fertile of soil

72. Total area over which the water of the canal system can flow by gravity is known as

- a) Irrigated area
- b) Farming area
- c) Commanded area
- d) Gross Commanded area

73. In a canal flow system one of the method for seepage assessment is done by

- a) Ponding method
- b) Piezometer method
- c) Percolation method
- d) Gauge method

74. The lowest water surface elevation which has to be kept under normal operating conditions in a reservoir is known as

- a) Minimum reservoir level
- b) Normal reservoir level
- c) Normal pool level
- d) Minimum pool level

75. The channel where the shape, size, slope is constant throughout is known as

- a) Uniform channel
- b) Homogeneous channel
- c) Smooth Uniform Channel
- d) Prismatic Channel

76. Calcined ash is the ingredient of

- a) Soil
- b) Pozzolanna cement
- c) Concrete
- d) Asbestos

77. Timber in the form of felled tree is known as

- a) Rough timber
- b) Green timber
- c) Natural timber
- d) Felled timber

78. Paints consisting of white lead or zinc white grounded in a small quantity of oil mixed with petroleum spirits and the resinous matter is known as

- a) Enamel paint
- b) Plastic paint
- c) Oil paint
- d) Metallic paint

79. Calendering deals with the mar	nutacture of	a) Clay	b) Silt
a) Wooden product b) Steel pr	oduct	c) Silty sand	d) Fine sand
c) Plastic product d) Paper p	roduct		
경찰, 지금 시간 이 교육 시간 유료로		88. For plastic type of	soil the commonly used
80. Diagonal scales are used for me	asurements	field compaction meth	
of distances which are of		a) Smooth wheeled ro	
a) Reducing type b) Enlarging	ng type	b) Sheep's foot roller	material in the start in
c) Diagonal type d) Minute	7 17	c) Rammer	
o) 2 tagettar o, po	cype	d) Vibrator	
81. A is a solid generated by	ov the revo-	a) violatoi	
lution of a semi circle about its dian	Maria Caracteristics and the Caracteristics a	80 In a foundation S	econdary settlement oc-
axis.	ineter as the		
		curs for the following	
		a) Sandy	b) Clay
c) Cuboid d) Evolute		c) Inorganic	d) Peat
82. In a metric chain each link is m	easured	90. A loose saturated	sand deposits when it
a) 10 cm b) 15 cm		loose a part or all shea	r strength when subject
c) 20 cm d) 25 cm		to sudden shock the pl	nenomenon is known as
		a) Plastic failure	b) Liquefaction
83. During the process of plane to	able survey	c) Loss of cohesion	d) Dilatancy
choose the term which is not relate	ed from the	Ŷ	in in the setting
following		91. The type of soil wh	nen general shear failure
a) Resection after orientation by b	ack ray	occur is	
b) Resection after orientation by ce		a) Plastic soil	b) Clay
c) Resection after orientation by th	7 () () () () () () () () () (c) Composite soil d) Dense sand	
d) Resection after orientation by bo		, <u>F</u>	<i>a)</i> 2 • 115 • 54114
		92. A downward drag	on the pile surface when
84. When the lower part of the wa	ll has to be		_
removed for the purpose of providi		the soil moves down relative to the pile which then adds a structural load is known as	
ing in the wall the arrangement is d		a) Skin friction	
viding	one by pro	b) Negative skin friction	nn -
a) Dead shores b) Underpinning		c) Positive skin friction	
c) reaking shores with a single shores	nores	d) i ne settlement	
85. The efficiency of a lifting mach	ine is given	93. Minimum gross pre	ssure intensity at the base
by			nich the soil fails in shear
a) Mechanical advantage/Velocity ratio		is termed as	
b) Velocity ratio/Mechanical advantage		a) Ultimate bearing capacity	
Load/Effort b) Net ultimate bearing capacity			
d) Input/100xOutput		c) Safe bearing capacity	
		d) Safe bearing pressu	
86. The moulding provided under	a nosing to	a) sale searing presse	
beautify the elevation of the step is		94 For heavy plastic s	oil the material which is
a) Spandrel b) Soffit		added to enhance its st	
c) Scotia d) Winder		a) Cement	b) Lime
a) white		c) Bentonite	d) Stone aggregate
87. A soil material which exhibit	ts high dry	c) Demoine	a) stone aggregate
strength it indicates	is ingil dry	05 During the process	of hoiling the sand starts
THE STREET IN THE STREET		7 7 1 7 11 11 10 11 12 11 11 11 Pec	THE PROPERTY OF THE CALL CLOSES

to loose its		ing is related to	
a) Shear strength	b) Cohesion	a) Wash basin	
c) Weight	d) Binding	b) Indian water closet	
		c) European water	
96. A soil retained in a wall as a backfill after a		d) Cistern	
period of time due to	some process get com-		
	increase the co-efficient	103. The area of v	verandahs, passages, corri-
	sure. This is due to the	dors is known as	To A Septemble Co.
•		a) Floor area	b) Carpet area
a) Increase in μ	b) Decrease in μ	c) Open area	d) Circulation area
		c) open area	d) Chediation area
c) Increase in ϕ d) Decrease in ϕ 104. The item in h			ouse building work which is
) 111010030 111 y	a) Beerease in ¢	104. The item in house building work whic measured in running metre is	
97 For bearing canac	ity determination as per	a) Fabrication	
1	soil the following values	c) Plaster	
	ous computation test are	c) r lastel	d) Brickwork
		105 The true hear	n= afalina ia 160020\ iiii
show that the failure i	70, the ultimate results	105. The true bearing of a line is 160° 20' simi-	
		larly the azimuth of	
a) General shear failu		a) 70° 20`	b) 19° 40°
b) Local shear failure		c) 160° 20`	d) 199° 40`
c) Mixed shear failure	•		
d) Strain failure		106. Surface water is contaminated	
		while travelling on the ground.	
	loading in a soil during	a) Colloids	b) Silt
shear test indicates that there is a condition in		c) Rain water	d) Impurities
the form of			
a) Drained		107limit in potable water is measured	
b) Undrained		in a silica scale.	
c) Consolidated Undrained		a) Turbidity	b) Colour
d) Unconsolidated Undrained		c) Odour	d) Taste
99. A curved traced b	y a point on the circum-	108. With proper	dose when used as a disin-
ference of generating	circle which rolls with-	fectant for a minimum contact period of 5 min-	
out slipping on anothe	er circle inside it is called	utes that particular disinfectant is	
a) Trochoid b) Cycloid		a) Ultra violet ray	
c) Epicycloid d) Hypocycloid		b) Iodine and Brom	nine
		c) Ozone	
100. In a panelled doc	or the two panel in a leaf	d) Potassium permanganate	
are separated vertical	2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	,	
a) Rail	b) Stile	109. Removal of ta	aste and odour from public
c) Mullion	d) Shash	water supply is trea	
,		a) Activated carbon	ž
101. In drawing the alignment of a building is		b) Copper sulphate	
represented by the		c) Oxidation of organic matter	
a) Plan	b) Elevation	d) Fluoridation	ariio iliamoi
c) Section	d) Perspective	a) i idolidation	
c) because	d) i cispective	110 When and a	at of a gazzar is flat in subjet
102 The term squatting in conitary ancing		110. When gradient of a sewar is flat in which self cleaning velocity is not develop to avoid	
102. The term squatting in sanitary engineer-		sen cleaning veloc	any is not develop to avoid

clogging it is usually done by		a) 1000 kg	b) 3625 kg	
a) Back washing		c) 7850 kg	d) 12560 kg	
b) Flushing of sewar			,	
c) Manually pushing th	e sewage	120 Volume of sand	l carried in a truck is ap-	
d) Emptying the sewar		proximately	carried in a mack is ap	
a) Emptying the sewar		a) 4 cu.m	b) 6 cu.m	
111 In a gazzaga traatm	ont process bullar float		*	
· · · · · · · · · · · · · · · · · · ·	ent process bulky float-	c) 8 cu.m	d) 10 cu.m	
	ers are usually removed	101 77	1 01 111	
by			ed cost of a building elec-	
a) Racks and Screen	b) Grit chamber	trification usually acc		
c) Skimming tanks	d) Floatation tanks	a) 1%	b) 2%	
		c) 8%	d) 15%	
112. The unit of measu	rement for steel works			
in trusses and its part is	sin	122. A work costing	g less than Rs.20000 is	
a) quintal	b) cm	termed as		
c) numbers	d) kilogram	a) petty work	b) minor work	
		c) major work	d) casual work	
113 In a detailed estin	mate the provision for	e) military or 11 cm.	(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
contingencies is usually		123 While submittir	ag a tender the contractor	
a) 1%	b) 3% to 5%	123. While submitting a tender the contractor is required to deposit some amount with the		
c) 10%	d) 1276 to 1376		ntee of the tender known	
114 NT 1 01 1	C: 20 10	as	15	
	s of size 20 cm x 10 cm	a) bank guarantee	b) earnest money	
	0 cu.m of masonry wall	c) security deposit	d) caution money	
is				
a) 500	b) 5000	124. Per capita water demand is calculated litres		
c) 50000	d) 500000			
		a) per person per da	y	
115. In measuring form	nwork no deduction is	b) per person per month		
made for opening upto		c) per person per year		
a) 1 m^2	b) 0.5 m^2	d) none of the above		
c) 0.4 m^2	$(d) 0.01 \text{ m}^2$			
-)	3, 313 1 222	125 The total domes	tic water consumption in	
116 The quantity of sto	ne required for 10 cu.m	a city as compared to total demand of the city		
of rubble stone mason		is	total demand of the city	
a) 10 cu.m	b) 8 cu.m	a) 20%	b) 30%	
c) 13.5 cu.m	d) 12.5 cu.m	c) 60%	d) 75%	
117. The estimated qua	ntity of cement required	126. Under normal co	onditions, the average do-	
in cement mortar 1:6 per cubic metre is			mestic water consumption in India per capita	
a) 5.6 bags b) 4.8 bags		per day in litres is	-priori in mana per eapita	
c) 8 bags	,	a) 105	b) 135	
c) o ougs	a) 5 ougs	c) 180	d) 215	
118. Thickness of plast	ering is usually			
a) 6 mm	b) 12 mm	127 The accurate me	thod for predicting popu-	
c) 25 mm	d) 40 mm		rapidly increasing city is	
C) 23 Hilli	uj to min			
110 One auhic matur of	mild stool waights about	a) arithmetical increa		
119. One cubic metre of mild steel weights about		b) geometrical increa	se memod	

c) incremental increase method d) graphical increase method		a) coagulationc) filtration	b) sedimentation d) screening
128. Water supply scheme is usually designed for a life of		137. Chlorination of water is done for removal of	
a) 100 years	b) 50 years	a) sediments	b) suspended solids
c) 25 years	d) 10 years	c) hardness	d) bacteria
129. Per capita water consumption is highest in		138. The waste water from bathrooms and kitchens is called	
a) schools	b) hospitals	a) refuse	b) sullage
c) offices	d) factories	c) sewage	d) garbage
130. The turbidimeter		139. The colour of sep	tic sewage is
ment of turbidity from	0-1000 ppm directly is	a) black	b) green
called		c) grey	d) blue
a) Jackson's turbidimet	er		
b) Baylis turbidimeter		140. Sewage that has r	eceived no purification
c) Hellige turbidimeter		treatment is called	
d) none of the above		a) raw sewage	b) untreated sewage
		c) crude sewage	d) fresh sewage
131. The colour of wat	er is measured on		
a) turbidity scale		141. The opening constructed on sewers or	
b) silical scale			nter or leave the sewers
c) platinum cobalt scale			1.)
d) threshold scale		a) lamp holec) inspection chamber	b) manhole d) street inlet
132. Chlorides impart v	water with		
a) salty taste	b) sweet taste	142. The effluent from	septic tank is discharged
c) irritating taste	d) none of the above	into	
		a) soak pit	b) drainage
133. Which metal if present in water causes poisoning?		c) oxidation pond	d) sewer
a) Mercury	b) Lead	143. The entrained air	in concrete
c) Arsenic	d) all of the above	a) increases workability	
c) i liberiic	a) an or me above	b) decreases workability	
134. The devices installed for drawing water		c) increases strength	
from the sources are called		d) decreases strength	
a) filters	b) intakes	a) accreases suchgui	
c) aquifers	d) none of the above	144 The property of f	rech concrete in which
cyaquiicis	d) none of the above	144. The property of fresh concrete in which the water in the mix tends to rise to the surface	
135. Alum increases		while placing and com	
a) acidity of water	b) hardness of water	a) creep	b) bleeding
c) carbonates in water		c) segregation	d) shrinkage
136. The process of pu	rifying water by pass-	145. The maximum ar	ea of tension reinforce-
ing it through a bed of f	ine granular material is	ment in beams shall no	t exceed
called		a) 0.04 bD	b) 0.06 bD

- c) 0.08 bD
- d) 0.10 bD
- 146. The ratio of Young's modulus of steel to Young's modulus of concrete is known as
- a) specific ratio
- b) Poisson's ratio
- c) elasticity ratio
- d) modular ratio
- 147. Concrete is generally reinforced with bars made of
- a) aluminium
- b) cast iron
- c) mild steel
- d) high carbon steel
- 148. A strut is a
- a) flexible member
- b) compression member
- c) torsion member
- d) tension member
- 149. A tie is a
- a) flexible member
- b) compression member
- c) torsion member
- d) tension member
- 150. The size of the rivet is expressed by the
- a) diameter of shank
- b) length of shank
- c) type of head
- d) none of the above