

Test Booklet No. \_\_\_\_\_

**This booklet consists of 100 questions and 15 printed pages.**

RGUCET/2024/\_\_\_/\_\_\_

Series

NIL

**RGUCET 2024**  
**Common Entrance Test, 2024**

**MASTER OF TECHNOLOGY (AGRICULTURAL ENGINEERING)**

**Full Marks: 100**

**Time: 2 Hours**

Roll No. 

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Day and Date of Examination: \_\_\_\_\_

Signature of Invigilator(s) \_\_\_\_\_

Signature of Candidate \_\_\_\_\_

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*General Instructions:*

***PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.***

1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Which of the following sentences correctly demonstrates indirect speech?				Answer option (a,b,c or d)
	a) She said, "I am going to the store."	b) He asked if they had finished the project.	c) "Please close the door," he shouted.	d) "I'll be there at 5," she promised.	b
2	Identify the sentence written in direct speech				Answer option (a,b,c or d)
	a) She told him to be quiet	b) "I'll be there in five minutes," he said	c) He asked if they had finished the project	d) "Please turn off the lights,"	b
3	Pick the simple sentence correct transformation of the sentence given: <b>He is too soft for the job of an army man.</b>				Answer option (a,b,c or d)
	a) He is soft but army man cannot be soft	b) He is so soft that he is not suitable for the job of an army man	c) He cannot be an army man if he is so soft	d) He cannot be an army man since he is very soft	b
4	Question for Assertion and justification: A: Assertion: The Earth orbits the Sun. B: Justification: This is supported by Kepler's laws of planetary motion and verified through astronomical observations.				Answer option (a,b,c or d)
	a) True, and the Earth is the largest planet in the solar system.	b) False, and the Sun revolves around the Earth.	c) True, and this is confirmed by scientific evidence.	d) False, and the Moon is the center of the solar system.	c
5	Match the following pairs:				Answer option (a,b,c or d)
	A) Isaac Newton	i) Theory of General Relativity			
	B) Albert Einstein	ii) Law of Universal Gravitation			
	C) Marie Curie	iii) Discovery of Radioactivity			
	D) Charles Darwin	iv) Theory of Evolution by Natural Selection			
	a) iii-ii-iv-i	b) ii-i-iii-iv	c) i-ii-iii-iv	d) i-ii-iv-iii	b
6	Read the following group of sentences. The first and the last sentences are numbered 1 and 6, and the rest are numbered P, Q, R, and S. Arrange these four sentences in proper order to form a meaningful paragraph/sentence. P. Former President Donald Trump sharply attacked the U.S. Q. infectious disease expert Anthony Fauci over his R. handling of the coronavirus pandemic, demanded reparations S. from China and denounced an investigation T. into his finances in a speech in North Carolina				Answer option (a,b,c or d)
	a) STQRP	b) PRSQT	c) TRPSQ	d) No replacement is required	d
7	Which of the following sentences is grammatically correct?				Answer option

					(a,b,c or d)
	a) S orry, I spilled some juice in the floor.	b) Sorry, I spilled some juice upon the floor.	c) Sorry, I spilled some juice on the floor.	d) Sorry, I spilled some juice into the floor.	c
8	Match the country with its capital:				Answer option (a,b,c or d)
	A France		i Tokyo		
	B Japan		ii Paris		
	C Brazil		iii Brasília		
	D Australia		iv Canberra		
	a) ii-i-iii-iv	b) i-ii-iv-iii	c) iii-ii-iv-i	d) i-ii-iii-iv	a
9	Synonyms for FOSTERING				Answer option (a,b,c or d)
	a) Safeguarding	b) Neglecting	c) Ignoring	d) Nurturing	
10	The 2020 Summer Olympics was held in				Answer option (a,b,c or d)
	a) United States	b) Japan	c) China	d) Australia	
11	Which state of North East India is known as the "Land of the Dawn-Lit Mountains"?				Answer option (a,b,c or d)
	a) Manipur	b) Nagaland	c) Mizoram	d) Arunachal Pradesh	
12	The famous Kaziranga National Park, known for its one-horned rhinoceros, is located in which state of North East India?				Answer option (a,b,c or d)
	a) Assam	b) Manipur	c) Mizoram	d) Meghalaya	
13	Which of the following taxes are imposed and collected by the state government?				Answer option (a,b,c or d)
	a) Estate duty	b) Sales tax	c) Land revenue	d) All the above	
14	Who can remove the Vice-President from his office?				Answer option (a,b,c or d)
	a) President	b) Prime minister	c) Parliament	d) Legislative assemblies of the state	
15	SMART (Supersonic Missile Assisted Release of Torpedo) system, recently seen in the news, was developed by which organization				Answer option (a,b,c or d)
	a) DRDO	b) ISRO	c) CSIR	d) BARC	
16	Recently, which country won the gold medal in the Archery World Cup in the men's recurve event				Answer option (a,b,c or d)

	a) India	b) South Korea	c) Malaysia	d) Indonesia	a
17	Recently, which country launched first Angara-A5 space rocket				Answer option (a,b,c or d)
	a) Russia	b) India	c) Malaysia	d) Indonesia	a
18	Which of the following is not irrational?				Answer option (a,b,c or d)
	a) $(3 + \sqrt{7})$	b) $(3 - \sqrt{7})$	c) $(3 + \sqrt{7})(3 - \sqrt{7})$	d) 3	c
19	The addition of a rational number and an irrational number is equal to				Answer option (a,b,c or d)
20	a) rational number	b) Irrational number	c) Both	d) Integer	b
	A circle has a number of tangents equal to				Answer option (a,b,c or d)
	a) 0	b) 1	c) 2	d) Infinite	d
21	Raspbar-type threshing cylinder are generally used in				Answer option (a,b,c or d)
	a) Paddy threshers	b) Wheat threshers	c) Maize threshers	d) Mustard threshers	a
22	Match the following pairs:				Answer option (a,b,c or d)
	A) Cutting blade	i) The connection point between the plough and the tractor allows towing.			
	B) Frame	ii) This helps control the depth at which the plough blades penetrate in to the soil.			
	C) Depth wheel	iii) These are the individual discs attached to the plough that cut through the soil.			
	D) Hitch	iv) The main structure of the plough that supports the cutting blades and connects to the tractor.			
	a) i-ii-iii-iv	b) iii-iv-ii-i	c) i-iii-iv-ii	d) iv-ii-iii-i	b
23	As the pitman arm moves the knife back and forth, the centre of the knife section must stop in the centre of the guard on each stroke is called				Answer option (a,b,c or d)
	a) Alignment	b) Adjustment	c) Registration	d) Transmission	c
24	Assertion: Puddling is done to reduce water percolation and increase soil water retention in paddy fields.  Reason: Puddling involves breaking up soil clumps and compacting the soil to create a dense layer that reduces the infiltration of water.				Answer option (a,b,c or d)

	a) Both the assertion and reason are true, but the reason is not the correct explanation of the assertion.	b) The assertion is true, but the reason is false.	c) Both the assertion and reason are true, but the reason is not the correct explanation of the assertion.	d) Both the assertion and reason are true, and the reason is the correct explanation of the assertion.	a
25	The type of bearing generally used to support the disc on a standard disc plough is				Answer option (a,b,c or d)
	a) Ball bearing	b) Tapper roller bearing	c) Plain roller bearing	d) Can't be determine	b
26	The size of disk harrow is determined by				Answer option (a,b,c or d)
	a) Number of disks	b) Maximum width of cut	c) Maximum depth of cut	d) Number of gangs	b
27	Equipment for placing seedlings in the soil is called				Answer option (a,b,c or d)
	a) Seed drill	b) Planter	c) Seed cum fertiliser drill	d) Transplanter	d
28	The device used to spray the liquid is called				Answer option (a,b,c or d)
	a) Sprayer	b) Duster	c) Pump	d) Crusher	a
29	A reaper is used for				Answer option (a,b,c or d)
	a) Cutting crop	b) Cutting and windrowing	c) Cutting and threshing	d) Windrowing	b
30	Which of the following is hand operated sowing equipment?				Answer option (a,b,c or d)
	a) Broadcaster	b) Dibbler	c) Plain drill	d) Seed drill	b
31	Maximum noise level from a tractor near the operator's ear should not exceed				Answer option (a,b,c or d)

	a) 75 dB	b) 90 dB	c) 100 dB	d) 110 dB	b
32	The lowest temperature at which the fuel ceases to flow is known as				Answer option (a,b,c or d)
	a) Flash point	b) Pour point	c) Cloud point	d) Viscosity number	b
33	The function of a choke in an engine is to				Answer option (a,b,c or d)
	a) Heat the engine	b) cylinder blockage	c) Remove the cylinder blockage	d) Provide a rich fuel-air mixture	d
34	The name of the instrument for measuring the valve clearance of an engine is				Answer option (a,b,c or d)
	a) Micrometer	b) Torque wrench	c) Feeler gauge	d) Bore gauge	c
35	The following statement is true or false? A differential in a tractor is provided to allow the wheels on the same axle to rotate at different speeds when turning.				Answer option (a,b,c or d)
	a) True	b) False	c) Can't be determined	d) Partially true	a
36	If an earthen dam is failed because of "Sloughing of Downstream Side of Dam", it comes under				Answer option (a,b,c or d)
	a) Hydraulic failure	b) Hydrologic failure	c) Seepage failure	d) Structural failure	c
37	Match the following pair:				Answer option (a,b,c or d)
	A) Capillary Water	i) Water is tightly bound to soil particles and is not available for plant uptake.			
	B) Hygroscopic water	ii) Water held in the soil against the force of gravity in the capillary spaces			
	C) Gravitational water	iii) Water that drains through the soil due to gravity.			
	D) Available water	iv) Water that is readily available for plant uptake			
	a) ii-i-iii-iv	b) i-iv-iii-ii	c) iv-ii-iii-i	d) i-ii-iii-iv	a
38	Which of the following statements are true or false: I. Water surface under the ground is at atmospheric pressure				Answer option

	II. Water is under pressure between two impervious strata Water table serves as the upper surface of the zone of saturation				( a,b,c or d)
	a) II and I	b) III and I	c) Only II	d) Only III	c
39	The largest crop area covered by drip irrigation in India is under				Answer option ( a,b,c or d)
	a) Plantation crop	b) Vegetable crops	c) Orchards	d) Fibre crops	c
40	If the radius of raindrop is doubled, then its kinetic energy will be increased by				Answer option ( a,b,c or d)
	a) 4 times	b) 5 times	c) 8 times	d) 16 times	d
41	Which of the following statements is False: I. A watershed is an area of land where all the water that falls within it drains to a common point, such as a river, lake, or ocean. II. The size of a watershed is determined by the topography of the land, with higher elevations often marking the boundaries of a watershed. III. Urbanization typically increases water infiltration into the soil within a watershed, reducing the risk of flooding.				Answer option ( a,b,c or d)
	a) II	b) III	c) I	d) I and II	b
42	Assertion: In chute spillways, flow is usually subcritical.  Reason: Chute spillways are designed to allow water to flow smoothly over a sloped surface, resulting in subcritical flow conditions.				Answer option (a,b,c or d)
	a) Both assertion and reason are true, and the reason is a correct explanation of the assertion.	b) Both assertion and reason are true, but the reason is not a correct explanation of the assertion.	c) Assertion is true, but the reason is false.	d) Assertion is false, but the reason is true.	a
43	Assertion: Wind erosion is common in arid and semi-arid regions with sparse vegetation cover.  Reason: In such regions, the lack of vegetation exposes the soil surface to the direct impact of wind, leading to erosion.				Answer option ( a,b,c or d)
	a) Both the assertion and reason are true, but the reason is not the correct explanation of the assertion.	b) Both the assertion and reason are true, and the reason is the correct explanation of the assertion.	c) The assertion is true, but the reason is false.	d) The assertion is false, but the reason is true.	b
44	The real soil loss was denoted by the phenomenon of				Answer option (

					a,b,c or d)
	a) Detachment	b) Transportation	c) Deposition	d) Accumulation	a
45	Thermal vapour compression is used in a/an				Answer option (a,b,c or d)
	a) Evaporator	b) Homogenizer	c) Pasteurizer	d) Condenser	a
46	Type of moisture that can be removed by common drying techniques is				Answer option (a,b,c or d)
	a) Equilibrium moisture	b) Total moisture	c) Free moisture	d) Bound moisture	c
47	Energy required to grind a material from one size to another is expressed by				Answer option (a,b,c or d)
	a) Fick's law	b) Newton's law	c) Kick's law	d) Stoke's law	c
48	The efficiency of a cyclone separator increases by				Answer option (a,b,c or d)
	a) Increasing the air inlet velocity	b) Decreasing the size of the particles	c) Reducing the size of the separator	d) Different methods	a
49	In steady state heat transfer				Answer option (a,b,c or d)
	a) Rate of heat in > Rate of heat out	b) Rate of heat in < Rate of heat out	c) Rate of heat in = Rate of heat out	d) Varies with time	c
50	The term "Tons of refrigeration" is used in cold storage unit to measure				Answer option (a,b,c or d)
	a) Mass of the fruits held	b) Mass of refrigerant	c) Mass of compressor	d) Capacity of compressor	d
51	The specific gravity of skim milk is				Answer option (a,b,c or d)
	a) Lower than whole milk	b) Same as whole milk	c) Higher than whole milk	d) Same as water	c
52	Pasteurization of milk is necessary for				Answer option (a,b,c or d)
	a) Long shelf life	b) Destruction	c) Long shelf	d) Destruction	d



	at room temperature	of all microorganism	life under refrigeration	of only pathogenic microorganism	
53	Correct statement is respect of rice parboiling process is				Answer option (a,b,c or d)
	a) Kernal structure becomes soft and it cooks easily	b) Heat treatment during parboiling preserves some antioxidants	c) Parboil rice retains more protein, vitamins and minerals	d) Shelling of parboiled rice becomes more difficult	c
54	The most commonly used solvent for extraction of oil in India is				Answer option (a,b,c or d)
	a) Ether	b) n-hexane	c) n-butane	d) alpha-methyl naphthalene	b
55	What is the value of the determinant				Answer option (a,b,c or d)
	$\begin{vmatrix} 3 & 5 & 2 \\ 7 & 4 & 5 \\ 1 & 2 & 3 \end{vmatrix}$				
	a) - 56	b) - 58	c) - 54	d) - 66	c
56	If a matrix is given by $A = \begin{vmatrix} 1 & 2 & 3 \\ 0 & 4 & 5 \\ 0 & 0 & 1 \end{vmatrix}$ , the determinant of $A^{-1}$ is				Answer option (a,b,c or d)
	a) 3	b) $\frac{1}{3}$	c) $\frac{1}{4}$	d) 2	c
57	Which of the following functions is the solution of the differential equation $\frac{dy}{dx} + 2y = 0$ ?				Answer option (a,b,c or d)
	a) $y = -2e^{-x}$	b) $y = 2e^x$	c) $y = e^{-2x}$	d) $y = e^{2x}$	c
58	Laplace transform of a constant value function is				Answer option (a,b,c or d)
	a) s	b) $\frac{1}{s}$	c) $s^2$	d) $\frac{1}{s^2}$	b
59	5 apples and 6 oranges are kept in a box. If three fruits are chosen at random, then the probability that 2 apples and one orange are picked is				Answer option (a,b,c or d)
	a) $\frac{4}{11}$	b) $\frac{4}{13}$	c) $\frac{5}{11}$	d) $\frac{6}{11}$	a
60	The displacement vector of the particle when it has travelled from point P(2,3,5) to Q(3,4,5) will be				Answer option (a,b,c or d)
	a) $i+j+10k$	b) $i+j+5k$	c) $i+j$	d) $2i+4j+6k$	c
61	Which of the following functions can be represented by a Fourier series?				Answer option (a,b,c or d)

					d)
	a) Piecewise continuous functions	b) Functions	c) local extrema	d) Derivative	a
62	Simpson's Rule is used for the numerical approximation of which of the following				Answer option (a,b,c or d)
	a) Definite integrals	b) Derivatives	c) Indefinite integrals	d) Differential equations	a
63	Match the following pairs:				Answer option (a,b,c or d)
	A) Moisture Content	i) Mass per unit volume of the produce			
	B) Density	ii) Measure the amount of water present in the produce			
	C) Porosity	iii) Fractional volume of air spaces in the produce			
	D) Color	iv) Visual characteristic of the produce, often indicating ripeness or maturity			
	a) i-ii-iii-iv	b) i-ii-iv-iii	c) iii-ii-iv-i	d) ii-i-iii-iv	d
64	In which industry are bucket, screw, and belt conveying systems commonly used apart from agriculture				Answer option (a,b,c or d)
	a) Automotive	b) Dairy	c) Mining	d) Healthcare	c
65	Which of the following properties is NOT commonly used to describe the state of a moist air-water vapor mixture?				Answer option (a,b,c or d)
	a) Dry bulb temperature	b) Wet bulb temperature	c) Dew point temperature	d) Latent heat of vaporization	d
66	Which of the following factors affects the efficiency of milling operations?				Answer option (a,b,c or d)
	a) Temperature of the milling equipment	b) Moisture content of the product	c) Humidity of the air	d) Color of the product	b
67	Question for assertion and justification: Assertion: Mulching is beneficial for soil water conservation.  Justification: Mulching helps to reduce soil moisture evaporation by providing a protective layer on the soil surface. Choose the correct option:				Answer option (a,b,c or d)
	a) Assertion is false, but the reason is true	b) Both assertion and reason are false	c) Assertion is true, but the reason is false.	d) Both assertion and reason are true, and the reason is	d

				the correct explanation of the assertion.	
68	What factor determines the direction of groundwater flow within an aquifer?				Answer option (a,b,c or d)
	a) Aquifer depth	b) Hydraulic conductivity	c) Aquifer storage	d) Groundwater age	b
69	Match the statistical measures with their descriptions				Answer option (a,b,c or d)
	A) Mean	i. Average of all values in a dataset			
	B) Median	ii. Middle value of a dataset			
	C) Mode	iii. Most frequently occurring value			
	D) Standard Deviation	iv. Measure of the spread of data points from the mean			
	a) iv-iii-i-ii	b) iii - iv - i - ii	c) i - ii - iii - iv	d) ii - i - iii - iv	c
70	Match the following pairs of heat transfer processes with their descriptions				Answer option (a,b,c or d)
	A) Conduction	i) Heat transfer through a solid medium without the movement of the medium itself			
	B) Convection	ii) Heat transfer through the movement of a fluid medium			
	C) Radiation	iii) Heat transfer through electromagnetic waves			
	a) i - ii - iii	b) iii - i - ii	c) ii - iii - i	d) iii - ii - i	a
71	Which of the following statements about heat exchangers used in food processing is true i) Heat exchangers are not commonly used in food processing. ii) Heat exchangers allow heat to be transferred between two fluids without mixing them. iii) Heat exchangers are only used for heating purposes in food processing. iv) Heat exchangers are not effective in maintaining product quality.				Answer option (a,b,c or d)
	a) i	b) ii	c) iii	d) iv	b
72	Which of the following is a popular farm machinery used for planting seeds in rows?				Answer option (a,b,c or d)
	a) Tillage	b) MB plough	c) Cultivator	d) Seed Drill	d
73	Which of the following statements about refrigeration as a preservation method is true  i) Refrigeration involves complete elimination of all microorganisms. ii) Refrigeration is not effective in slowing down microbial growth in food. iii) Refrigeration is commonly used for preserving food by increasing microbial activity. iv) Refrigeration involves cooling to lower temperatures to slow down microbial growth in food.				Answer option (a,b,c or d)
	a) i	b) ii	c) iii	d) iv	d
74	What is the primary purpose of contour plowing in soil water conservation?				Answer option

					(a,b,c or d)
	a) To increase soil compaction	b) To reduce soil moisture content	c) To minimize soil erosion	d) To promote water runoff	c
75	Which of the following is NOT a common method of drying agricultural produce?				Answer option (a,b,c or d)
	a) Sun drying	b) Freeze drying	c) Fermentation drying	d) Microwave drying	c
76	Which of the following practices helps in reducing soil erosion and conserving soil water?				Answer option (a,b,c or d)
	a) Overgrazing	b) Deforestation	c) No-till farming	d) Excessive tilling	c
77	Water activity in food refers to:				Answer option (a,b,c or d)
	a) The amount of water present in food	b) The availability of water for microbial growth and reactions	c) The total moisture content in food	d) The heat required to evaporate water from food	b
78	Match the following pairs statistical distributions with their characteristics				Answer option (a,b,c or d)
	A) Normal Distribution	i. Bell-shaped curve			
	B) Binomial Distribution	ii. Discrete probability distribution			
	C) Uniform Distribution	iii. Symmetric around the mean			
	D) Exponential Distribution	iv. Continuous probability distribution			
	a) iv - iii - i - ii	b) iii - ii - iv - i	c) i - ii - iii - iv	d) ii - i - iii - iv	b
79	The angle between the plane of the front wheel and vertical axis is known as				Answer option (a,b,c or d)
	a) Camber angle	b) Caster angle	c) Kingpin inclination	d) Kingpin	a
80	Cooling system of tractor remove about ____ % of heat of fuel combustion for satisfactory performance of engine				Answer option (a,b,c or d)
	a) 65 to 70	b) 33-35	c) 45 to 55	d) 55 to 65	b
81	Type of gear transmission has highest transmission efficiency				Answer option (a,b,c or d)
	a) Synchromesh	b) Constant mesh	c) Power shift	d) Sliding mesh	d
82	The power developed by the engine and is available at the end of crankshaft is				Answer option

					(a,b,c or d)
	a) Belt power	b) IHP	c) BHP	d) FHP	c
83	<p>Which of the following statements is/are true or false:</p> <p>I. The cetane number measures the ignition quality of diesel fuel, with higher cetane numbers indicating easier ignition.</p> <p>II. Diesel engines with higher compression ratios generally require diesel fuel with lower cetane numbers for optimal ignition.</p> <p>III. Adding additives to diesel fuel can improve engine ignition quality and performance.</p>				Answer option (a,b,c or d)
	a) I and III	b) I only	c) III only	d) II and III only	a
84	The disc angle of good plough varies between				Answer option (a,b,c or d)
	a) 15-25°	b) 25-35°	c) 35-45°	d) 42-45°	d
85	Match the following pairs:				Answer option (a,b,c or d)
	A) Seed Hopper		i Stores seeds before distribution		
	B) Orifice Plate		ii Guides seeds from the hopper to the ground		
	C) Pitot Tube		iii Cuts through soil to create furrows		
	D) Electromagnetic Flow meter		iv Regulates the rate of seed distribution		
	a) iv-i-iii-ii	b) i-ii-iii-iv	c) iii-ii-iv-i	d) ii-i-iii-iv	a
86	The ratio of the ultimate stress to design stress is known as				Answer option (a,b,c or d)
	a) Elastic limit	b) Strain	c) Factor of safety	d) Bulk modulus	c
87	<p>Assertion: The steam engine played a crucial role in the Industrial Revolution.</p> <p>Reason: The steam engine allowed for the mechanization of various industries, leading to increased productivity and economic growth.</p>				Answer option (a,b,c or d)
	a) Both assertion and reason are true, and the reason is the correct explanation of the assertion.	b) Assertion is true, but the reason is false.	c) Assertion is false, but the reason is true.	d) Both assertion and reason are true, but the reason is not the correct explanation of the assertion.	a
88	The rising limb of a hydrograph also known				Answer option (a,b,c or d)
	a) Concentrating	b) depletion	c) inflection	d) crest segment	a

	curve	curve	point		
89	What is the length of surveyor's chain?				Answer option (a,b,c or d)
	a) 100 ft	b) 66 ft	c) 33 ft	d) 50 ft	c
90	What is length of ranging rod?				Answer option (a,b,c or d)
	a) 4m	b) 2m	c) 3m	d) 2.4m	b
91	The operation of establishing intermediates points on a straight line between terminals points is known as				Answer option (a,b,c or d)
	a) Ranging	b) Traversing	c) Triangulation	d) Back bearing	a
92	Horton's mean curve for interception loss indicates that interception is greater in case of				Answer option (a,b,c or d)
	a) Light storm	b) Heavy storm	c) No storm	d) Intermediate storm	a
93	Thermostat valve is used to design start opening for diesel engine at ___°C				Answer option (a,b,c or d)
	a) 70-75	b) 82	c) 88-90	d) 60-70	c
94	The pre-cleaner removes ____ % or more dust from incoming air in I.C. engine				Answer option (a,b,c or d)
	a) 60	b) 70	c) 80	d) 90	d
95	_____ nozzle are commonly used for spraying insecticides and fungicides .				Answer option (a,b,c or d)
	a) Flat fan	b) Flood jet	c) Solid cone	d) Hollow cone	d
96	Steel containing up to 0.15% carbon is known				Answer option (a,b,c or d)
	a) Mild steel	b) Dead mild steel	c) Medium carbon steel	d) High carbon steel	b
97	What is resolution of prismatic compass?				Answer option (a,b,c or d)
	a) 15 <sup>0</sup>	b) 30 <sup>0</sup>	c) 1 <sup>0</sup>	d) 45 <sup>0</sup>	b

98	The ratio of basin area to square of basin length is called				Answer option (a,b,c or d)
	a) Ruggedness number	b) Geometric number	c) Relief ratio	d) Form factor	d
99	Saturated but relatively impermeable material that does not yield water to the wells is called				Answer option (a,b,c or d)
	a) Aquiclude	b) Aquitard	c) Aquifer	d) Aquifuge	a
100	In two-dimensional flow, a grid of equipotential and streamlines is called as				Answer option (a,b,c or d)
	a) Contour network	b) Seepage line	c) Flow net	d) Monogram	c