Seat	Total No. of Pages: 16
No	

P.G. Entrance Examination, May - 2023 M.Tech. (Rural Technology) (YCSRD)

			`	urai Tecnnolog ub. Code : 7114			
-			nesday, 09- 05 - to 02.30 p.m.	2023	Total Marks: 1	.00	
Instructions: 1 2 3			Each question Answers should darkening the Follow the in	All questions are compulsory. Each question carries one mark. Answers should be marked in the given OMR answer sheet by darkening the appropriate option. Follow the instructions given on OMR Sheet. Rough work shall be done on the sheet provided at the end of question paper.			
1)	Whoil?	ich of the	e following serv	ves as a cooling and	d ventilation of engine lubricat	ing	
	A)	Piston		B)	Cam shaft		
	C)	Oil sun	mp	D)	Crank case		
2)		the surv	rival of fish in	a river stream, th	e minimum dissolved oxyger	ı is	
	A)	3 ppm		B)	4 ppm		
	C)	5 ppm		D)	10 ppm		
3)	Ozo	ne hole	refers to				
	A)	hole in	ozone layer				
	B)	decreas	se in the ozone	layer in troposph	ere		
	C)	decreas	ecrease in thickness of ozone layer in stratosphere				
	D)	increas	e in the thickn	ess of ozone layer	in troposphere		
4)	Spe	ed of so	und does not	depend on-			
	A)	Temper	rature	B)	Humidity		
	C)	Pressur	re	D)	None of these		

5)	Industry lobbying, local to international rules, Quality and food safety etc includes which component of the food industry?					
	A)	R & D	B)	Financial Services		
	C)	Regulation	D)	Wholesale and distribution		
6)	Hov	w is milk pasteurized?				
	A)	Low temperature, Long time	B)	High temperature, Short time		
	C)	Ultrahigh temperature	D)	All of the mentioned		
7)	The	ozone layer restricts				
	A)	Visible light	B)	Infrared radiation		
	C)	X-rays and Gamma rays	D)	Ultraviolet radiation		
8)	Mal	aria is caused by				
	A)	Bacteria	B)	Mosquito		
	C)	Protozoa	D)	Virus		
9)	For	purifying drinking water alum is use	ed			
	A)	for coagulation of mud particles	B)	to kill bacteria		
	C)	to remove salts	D)	to remove gases		
10)	Full	form of COD is;				
	A)	Catalytic Oxygen Demand	B)	Chemical Oxygen Demand		
	C)	Colloidal Oxide Demand	D)	None of these		
11)	Depending on the chemical composition and mechanical properties, iron may be classified as					
	A)	Cast iron	B)	Wrought iron		
	C)	Steel	D)	All of above		

12) The standard height of a standard rain gauge, is				, is				
	A)	10 cm	B)	20 cm				
	C)	30 cm	D)	50 cm				
13)	Whi	ch of the following is not an air poll	utant	?				
	A)	Smoke	B)	Carbon Dioxide				
	C)	Nitrogen gas	D)	Sulphur Dioxide				
14)	Unit	t of Noise level measurement						
	A)	Pascal	B)	Decibel				
	C)	Kilo Jules	D)	None of above				
15)	Whi	ch provides energy very slowly?						
		Carbohydrates	B)	Fats				
		Proteins	D)	Fibers				
16)	The compressed air may be used							
		In gas turbine plants						
	,	For operating pneumatic drills						
	C)	In starting and supercharging of I	engin	es				
	D)	All of the above						
17)	Nuc	lear reactors are used						
	A)	To produce heat for thermoelectric	e pow	/er				
	B)	To produce fissionable material	-					
	C)	To propel ships, submarines, aircr	aft					
	D)	All of the above						
18)	Cast	t iron is manufactured in						
	A)	blast furnace	B)	cupola				
	C)	open hearth furnace	D)	bessemer converter				

10)	A 41	·			
19)		nermistor is a type of	D)	Dagistan	
	A)	Switch	B)	Resistor	
	C)	Battery	D)	Power supply	
20)	A co	omputer program that converts asser	nbly	language to machine language is	
	A)	Compiler	B)	Interpreter	
	C)	Assembler	D)	Comparator	
21)	A c	omputer is portable and easy to carr	y by	travellers is -	
,	A)	super computer	B)	laptop	
	C)	mini computer	D)	file servers	
22)	Fog	is an example of colloidal system of	of		
,	A)	solid dispersed in gas	B)	solid dispersed in liquid	
	C)	liquid dispersed in gas	D)	gas dispersed in liquid	
23)	Wh	ich of the following is not an explos	ive?		
,	A)	TNT	B)	CMC	
	C)	RDX	D)	Lead azide	
24)	Which of the following parameter is not necessary for the description of a automobile?				
	A)	Model	B)	Type	
	C)	Capacity	D)	Colour	
25)	The	surface Run-off is the quantity of v	vater		
	A)	absorbed by soil			
	B)	intercepted by buildings and veget	ative	cover	
	C)	required to fill surface depressions			
	D)	that reaches the stream channels			

26)	26) Which of the following is found in an automobile's electrical system?			bile's electrical system?
	A)	Lighting systems	B)	Battery
	C)	Alternators	D)	All of the mentioned
27)		n respect to the definition of an allied the food industry?	d ind	ustry, which is an allied industry
	A)	Explosives Industry	B)	Packaging Industry
	C)	Jute Industry	D)	Leather Industry
28)	Plas	ticisers are added to synthetic plast	ics to	
	A)	impart flexibility		
	B)	improve workability during fabrica	tion	
	C)	develop new improved properties i	not pi	resent in the original resin
	D)	All (A), (B) and (C)		
29)	Wha	at is mean by LPG		
	A)	Liquefied petroleum gas	B)	Liquid purified gas
	C)	Low pressure gas	D)	Liquid pressure gas
30)		ulation of lead compounds present ol) causes	in au	tomobile exhaust (using leaded
	A)	blood poisoning		
	B)	anaemia		
	C)	nervous system disorder		
	D)	All (A), (B) and (C)		
31)	An i	deal vertical curve to join two gradi	ents,	IS
	A)	Circular	B)	Parabolic
	C)	Elliptical	D)	Hyperbolic

32)	Black cotton soil is unsuitable for foundations because its						
	A)	bearing capacity is low					
	B)	Permeability is uncertain					
	C)	Particles are cohesive					
	D)	Property to undergo a volumetric content	chan	ge due to variation of moisture			
33)	Insu	lation is used to					
	A)	Decrease heat transfer rate	B)	Increase heat transfer rate			
	C)	All the above	D)	None of above			
34)	Disc	charge of a centrifugal pump is (Wh	ere λ	V = Speed of the pump impeller)			
	A)	Directly proportional to N	- 1	Inversely proportional to N			
	C)	Directly proportional to N^2	D)	Inversely proportional to N^2			
35)	Res	istance is measured in					
	A)	Henries	B)	Ohms			
	C)	Hertz	D)	Watts			
36)	Bio	chemical Oxygen Demand (BOD) o	f safe	drinking water is			
	A)	$50\mathrm{mg/I}$	B)	$10\mathrm{mg/I}$			
	C)	5 mg/I	D)	30 mg/I			
37)	Pick	α up the correct statement from the f	ollow	ving:			
	A)						
	B)	Lead and barium salts have toxic e	effect				
	C)	Arsenic and selenium are poisonou	ıs to l	human health			
	D)	All of the above					
38)	Turl	bidity of raw water is a measure of					
,	A)	suspended solids	B)	acidity of water			
	C)	B.O.D.	D)	None of these			
	,		,				

39)	Inte	nsity of Heat is expressed in		
	A)	Volts	B)	Kg
	C)	Joule	D)	Ampere
40)	Hyd	roelectric power plant converts		
	A)	Mechanical energy to chemical ene	rgy	
	B)	Hydraulic to mechanical to electric	al en	ergy
	C)	Chemical energy to mechanical energy	ergy	
	D)	None of above		
41)	D: 1	4.1 1 24		
41)		out the scalar quantity	D)	***1 *.
	A)	Force		Velocity
	C)	Pressure	D)	Acceleration
42)	SI u	nit for the density, is		
	A)	kg/m ⁴	B)	kg/m ²
	C)	kg/m	D)	kg/m³
/3)	Ento	omology is the science that studies		
7 3)		Behaviour of human beings		
	B)	Insects		
		The origin and history of technical	and o	scientific terms
	D)	The formation of rock	ana	selentine terms
44)	Whi	ch of the following values of pH rep	orese	nts a stronger acid?
	A)	2	B)	7
	C)	10	D)	9
45)	The	element common to all acids is		
/	A)	Hydrogen	B)	Carbon
	C)	Sulphur	D)	Oxygen
	,	±	,	<i>3 C</i>

46)		Of the various non-conventional energy sources that are being tapped, which has the largest potential?						
	A)	Solar power	B)	Wind power				
	C)	Geothermal power	D)	None of these				
47)	Visc	cosity is defined as						
	A)	Resistance of the body	B)	Resistance to flow				
	C)	Acceptance to flow	D)	None of above				
48)	Pa(I	Pascal) is the unit for						
	A)	Thrust	B)	Pressure				
	C)	Frequency	D)	Conductivity				
49)	Wha	at refers to a metal combined with o	ne or	more other elements?				
	A)	Metal	B)	Alloy				
	C)	Metaloy	D)	Gas				
50)	Wat	er functions in the body to						
	A)	A) Serve as a medium for chemical reactions						
	B)	dissolve oxygen						
	C)	Induce glycogen						
	D)	Moderate metabolism						
51)	The	state having a largest area of forest	cove	r in India is				
	A)	Arunachal Pradesh	B)	Haryana				
	C)	Madhya Pradesh	D)	Assam				
52)	'MF	PG' extension refers usually to what	kind	of file?				
	A)	Word Perfect Document file	B)	MS Office document				
	C)	Animation/movie file	D)	Image file				

53)	3) The president can dissolve the Lok Sabha on						
	A)	Advice of the Prime Minister					
	B)	B) Advice of the chief justice of India					
	C)	C) Recommendation of Lok Sabha					
	D)	Recommendation of the Rajya Sab	oha				
54)	Ecology deals with						
	A)	Birds					
	B)	Cell formation					
	C)	Relation between organisms and th	eir er	nvironment			
	D)	Tissues					
55)	Poll	ution which occurs by poor disposa	l of w	vaste and rubbish is classified as			
	A)	Visual pollution	B)	Noise pollution			
	C)	Land pollution	D)	Thermal pollution			
56)	Wha	at is the range of pH of alkaline water	er?				
	A)	7-14	B)	0-6			
	C)	0-14	D)	None of above			
57)	Who	en a gas is turned into a liquid, the p	roces	ss is called			
	A)	Condensation	B)	Evaporation			
	C)	Deposition	D)	Sublimation			
58)	40 %	% of 280 = ?					
	A)	112	B)	116			
	C)	115	D)	120			
			•				

59) A shopkeeper sold an article for Rs. 2,500. If the cost price of the 2,000, find the profit percent.			If the cost price of the article is	
	A)	23%	B)	25%
	C)	27%	D)	29%
60)	Whi	ich one of the following is not a prin	ne nu	mber?
	A)	31	B)	61
	C)	71	D)	91
61)		average weight of A, B and C is 45 0 kg and that of B and C be 43 kg, t	_	•
	A)	17 kg	B)	20 kg
	C)	26 kg	D)	31 kg
62)		mixture 60 litres, the ratio of milk ar the quantity of water to be further a		
	A)	20 liters	B)	30 liters
	C)	60 liters	D)	40 liters
63)	starting place. He could walk both ways in 7 hours 45 minutes. The time tak by him to ride back both ways is			
	C)	4 hours 45 min	D)	5 hours
64)	is 50 A)	population of a town increases every 0,000, then after 2 years it will be 53900	B)	r by 4%. If its present population 54000
	C)	54080	D)	54900
65)	A)	v many permutations of the letters o 600	B)	120
	C)	240	D)	60

66)	The A) C)	Rath Yatra at Puri is celebrated in h Ram Shiva	onou B) D)	r of which Hindu deity Jaganath Vishnu				
67)	Wha	at James Watt invented?						
	A)	Diving bell	B)	Steam boat				
	C)	Hot air balloon	D)	Rotary steam engine				
68)	Fath	nometer is used to measure						
	A)	Earthquakes	B)	Rainfall				
	C)	Ocean depth	D)	Sound intensity				
69)	Eco	nomic goods are						
	A)	All commodities that are limited in	auan	tity as compared to their demand				
	B)	Commodities that is available according to their demand						
	C)	_						
	D)	None of the above						
70)	Aja	Ajanta Caves are located in the State of						
	A)	Maharashtra	B)	Gujarat				
	C)	Tamil Nadu	D)	West Bengal				
71)	The	first metal used by the man was						
	A)	Iron	B)	Copper				
	C)	Aluminium	D)	Gold				
72)	The	water in an open pond remains coo	ol eve	n in hot summer because				
	A)	Of continuous evaporation of water	er					
	B)	Water radiates heat more rapidly the	nan th	ne atmosphere				
	C)	Water absorbs heat less rapidly that		•				
	D)	Water absorbs heat more rapidly the		-				

73)	A can type 10 pages in 5 minutes. B can type 5 pages in 10 minutes. Working together, how many pages can they type in 30 minutes?				
	A)	15	B)	25	
	C)	65	D)	75	
74)	If the area of a circle is 75.44 square cm then what is the circumference of the circle?				
	A)	40.2 cm	B)	28.9 cm	
	C)	29.2 cm	D)	30.8 cm	
75)	Architect: Building:: Sculptor:?				
	A)	Museum	B)	Statue	
	C)	Chisel	D)	Stone	
76)	The	income tax raid was too sudden _			
	A)	so that the man escaped	B)	for the man escaping	
	C)	then the man escaped	D)	for the man to escape	
77)	A sl	leeping room for a number of peopl	e		
	A)	Dump	B)	Dormitory	
	C)	Fireside	D)	Office	
78)	Policemen riding on motorcycles as guards of VIP				
	A)	Attendants	B)	Commandos	
	C)	Servants	D)	Outriders	
79)	Teetotaler means				
	A) One who abstains from taking malice				
	B) One who abstains from taking wine				
	C) One who abstains from meat				
	D)	One who abstains from theft			
80)		his principles, he has to be ve	ery ca	reful.	
,	A)	with regard of	B)	with regard on	
	C)	with regard to	D)	None of these	

81)	She in the sun for	1 hour.				
	A) sitting	B)	has been sitting			
	C) has been sit	D)	has sit			
82)	Find the synonym for the word PRESTIGE					
	A) Influence	B)	Quality			
	C) Name	D)	Wealth			
83)	Find out the proper sequence: I read an advertisement that said					
	P: posh, air conditioned					
	Q : gentlemen of taste					
	R : are available for					
	S : fully furnished rooms					
	The proper sequence should be					
	A) PQRS	B)	PSRQ			
	C) PSQR	D)	SRPQ			
84)	Choose the correct alternative for underlined word which improve the sentence					
	his powerful desire brought about his downfall.					
	A) His intense desire	B)	His desire for power			
	C) His fatal desire	D)	No improvement			
85)	Choose the correct order of	sentence				
	1) Medicine 2) A 3) Neeta 4) Given 5) Was					
	A) 51423	,	25431			
	C) 35421	D)	42531			
86)	Which of these must be avoided for effective communication?					
,	A) Sharing of activity	B)	Listening			
	C) Ambiguity	D)	Politeness			
87)	Which of these must be avoided in a group discussion?					
	A) Speaking facts	·	Asking questions			
	C) Speaking fast	D)	Speaking with clarity			

88)	Before the meeting is concluded, there must be a					
	A)	Summary	B)	Question		
	C)	Discussion	D)	Agenda		
89)	Communication is a part of skills.					
	A)	Soft	B)	Hard		
	C)	Rough	D)	Short		
90)	It is important to consider proper room where you are giving your presentation.					
	A)	Darkness	B)	Lighting		
	C)	Ventilation	D)	None of above		
91)	A person of good understanding knowledge and reasoning power					
	A)	Expert	B)	Intellectual		
	C)	Snob	D)	Literate		
92)	Select the pair which has the same relationship.					
	LIGHT: BLIND					
	A)	speech : dumb	B)	language : deaf		
	C)	tongue : sound	D)	voice: vibration		
93)	Communication is affected by context					
	A)	Psychological	B)	Environmental		
	C)	Cultural	D)	All of above		
94)	The skills of enquiry are mainly					
	A)	Speaking skills	B)	Listening skills		
	C)	Creating and sharing ideas	D)	All of above		

95)	Proper nouns always begin with		_ lett	letters	
	A)	Running	B)	Capital	
	C)	Small	D)	Numerical	
96)	Reading comprehension means understanding a			ng a text.	
	A)	Oral	B)	Written	
	C)	Usual	D)	Audio	
97)	Rea	ding is a process.			
	A)	Encoding	B)	Listening	
	C)	Decoding	D)	Talking	
98)	refers to the time of action.				
	A)	Tense	B)	Transitive	
	C)	Intransitive	D)	Main	
99)	Wh	ich is the volatile memory?			
	A)	RAM	B)	EEPROM	
	C)	EPROM	D)	ROM	
100)	100) Choose the correct meaning of proverb for the following sentence to pick holes				
	A)	To find some reason to quarrel	B)	To destroy something	
	C)	To criticise someone	D)	To cut some part of an item	

GGG 8080

Rough Work