Seat	
No.	

ENT - 36

Total No. of Pages: 14

Shivaji University, Kolhapur

		Yashwantrao Chavan	Sch	ool of Rural Development
		M.Tech. (Rural Tech	nol	ogy) Entrance Test 2023
		Sub. (Code	e: 71140
		d Date : Tuesday, 08-08-2023 3.30 p.m. to 05.00 p.m.		Total Marks: 100
Not	te - E	ach Question carries one mark		
1.		nde from a variety of material rent?	s, su	ich as carbon, which inhibits the flow of
	a.	Choke	b.	Inductor
	c.	Resistor	d.	Capacitor
2.	Wł	nat frequency range is the Hi	gh I	Frequency band?
	a.	100 kHz	b.	1 GHz
	c.	30 to 300 MHz	d.	3 to 30 MHz
3.	On	e hectare is equal to		
	a.	5 acres	b.	2.471 acres
	c.	10 acres.	d.	None of these.
4.	4. Which of the following serves as a cooling and ventilation of engineering the lubricating oil?			a cooling and ventilation of engine
	a.	Piston	b.	cam shaft
	c.	oil sump	d.	crank case
5.	Wł	nat is the unit for measuring	the a	amplitude of a sound?
	a.	Cycles	b.	Coulomb
	c.	Hum	d.	Decibel

6. The function of compressor

- a. Is to increase pressure of air b. Is to decrease pressure of air
- c. Is to increase speed of air d. None of these..

7. Water contains

- a. One hydrogen atom and one oxygen atom
- b. Two hydrogen atoms and one oxygen atom
- c. one hydrogen atom and two oxygen atoms
- d. three hydrogen atoms and two oxygen atoms

8. Ozone hole refers to

- a. Hole in ozone layer
- b. decrease in the ozone layer in troposphere
- c. decrease in thickness of ozone layer in stratosphere
- d. increase in the thickness of ozone layer in troposphere

9. Which of the following are Milk Processing Operations?

- a. Clarification b. Pasteurization
- c. Homogenization d. All of the mentioned

10. Malaria is caused by

- a. Bacteria b. Mosquito
- C. Protozoa d. Virus

11. Full form of COD is;

- a. Catalytic Oxygen Demand
- b. Chemical Oxygen Demand
- c. Colloidal Oxide Demand
- d. None of these.

12. What is mean by FSI?

- a. Floor Space Indexb. Free Site Inspection
- c. Free Site Index d. Flat Square Index

13.	'Glo	obal warming' leads to		
	a.	Low level of oxygen	b.	High level of oxygen
	c.	Floods and droughts	d.	Rain forests
14.		e ratio of work done per cycle own as	to	the stroke volume of the compressor is
	a.	compressor capacity		
	b.	compression ratio		
	c.	compressor efficiency		
	d.	mean effective pressure		
15.	Cas	t iron is manufactured in		
	a.	blast furnace	b.	cupola
	c.	open hearth furnace	d.	bessemer converter
16.	Wh	ich of the following is not an	exp	losive?
	a.	TNT	b.	CMC
	c.	RDX	d.	Lead azide
17.	17. Which of the following parameter is not necessary for the description of an automobile?			
	a.	Model	b.	Type
	c.	Capacity	d.	Colour
18.	The as	lowest part of a structure wh	nich	transmits the load to the soil is known
	a.	Super structure	b.	Plinth
	c.	Foundation	d.	Basement
19.		h respect to the definition of and the food industry?	n all	lied industry, which is an allied industry
	a. E	Explosives Industry	b.	Packaging Industry
	c. Ji	ute Industry	d.	Leather Industry

20. Hydroelectric power plant converts

- a. Mechanical energy to chemical energy
- b. Hydraulic to mechanical to electrical energy
- c. Chemical energy to mechanical energy
- d. None of above

21. Radar is used for

- a. Locating Submerged submarines
- b. Receiving the signals in the radio receiver
- c. Locating geostationary satellites
- d. Detecting and locating position of objects such as acroplanes

22. Which country is known as land of windmills?

a. Netherland

b. Scotland

c. Finland

d. Bangladesh

23. Persons working in cement plants and limestone quarries are more prone to disease like

a. cancer

b. asthama

c. silicosis

d. fluorosis (bone disease)

24. World water day is on;

a. 21st march.

b. 21st April.

c. 22nd march.

d. 22nd April.

25. Viscosity is defined as

- a. Resistance of the body
- b. Resistance to flow
- c. Acceptance to flow
- d. None of above

26. Pi is equal to

a. 3

b. 2

c. 1

d. 3.142

27. Pick up the correct statement from the following: pH value indicates acidity and alkalinity of sewage a. In acidic sewage, the pH value is less than 7 b. In alkaline sewage, pH value is more than 7 c. All of above d. 28. Intensity of Heat is expressed in Volts b. Kg a. Joule d. Ampere c. 29. PDF extension usually refers to Post dispatch findings b. Portable document format a. Portable dispatch format d. All of above c. 30. Pick out the scalar quantity Force b. Velocity a. d. Acceleration Pressure c. 31. SI unit for the density, is kg/m^4 b. kg/m^2 a. d. Kg/m³ kg/m c. 32. Normal temperature of human body is-98.6 Degree Farenheight. b. 95.6 Degree Farenheight. a. d. None of these 95.3 Degree Farenheight. c. 33. Speed of sound does not depend on-**Temperature** b. Humidity a.

c. Pressure

d. None of these

34. Disease caused due to less production of insulin is-

a. Diabetes

b. Jaundice.

c. Encephalitis

d. None of these.

35.	Nig	ht blindness is deficiency dise	ease	of vitamin-
	a.	Vitamin D	b.	Vitamin A
	c.	Vitamin K.	d.	Vitamin C
36.	Fog	is an example of colloidal sys	ster	n of
	a.	solid dispersed in gas	b.	solid dispersed in liquid
	c.	liquid dispersed in gas	d.	gas dispersed in liquid
37.	A so	lar cell converts the sunlight	dir	ectly into energy.
	a.	thermal	b.	electrical
	c.	mechanical	d.	chemical
38.	Cell	ulose is the main constituent	of 1	nost fibres
	a.	acrylic	b.	spandex
	c.	synthetic	d.	natural
39. An ideal vertical curve to join two gradients, is				
	a.	circular	b.	parabolic
	c.	Elliptical	d.	Hyperbolic
40.	The	foundations are placed belov	w g	round level, to increase
	a.	strength	b.	workability
	c.	stability of structure	d.	all of above
41.	Che	emical formula for water is		
	a.	NaAIO ₂	b.	H_2O
	c.	A120 ₃	d.	CaSiO ₃
42.	The	state having a largest area o	f fo	rest cover in India is
	a.	Arunachal Pradesh	b.	Haryana
	c.	Madhya Pradesh	d.	Assam
43.	Wh	ich of the following is renewa	ble	energy source
	a.	petrol	b.	Solar Energy.
	c.	diesel	d.	None of these

44	The	nucleus	of an	atom	consists	Λf
44.	1116	nucieus	oi aii	awııı	COHSISTS	VI.

- a. Electron and neutron
- b. Electron and proton
- c. proton and neutron
- d. All of above

45. Washing soda is the common name for

- a. Sodium carbonate
- b. Calcium bicarbonate
- c. Sodium bicarbonate
- d. Calcium carbonate

46. Layer of atmosphere in which Ozone layer lies is

a. Exosphere

b. Mesosphere

c. Troposphere

d. Stratosphere

47. Exchange of outgoing and incoming radiations that keeps Earth warm is known as

- a. greenhouse effect
- b. radiation effect

c. infrared effect

d. ozone layer depletion

48. The minimum age to qualify for election to the Lok Sabha is

a. 25 years

b. 21 years

c. 18 years

d. 35 years

49. Exposure to sunlight helps a person improve his health because

- a. the infrared light kills bacteria in the body
- b. resistance power increases
- c. the pigment cells in the skin get stimulated and produce a healthy tan
- d. the ultraviolet rays convert skin oil into Vitamin D

50. The World Environment Day is celebrated on

a. 7 April

b. 5 June

c. 6 August

d. 16 June

51.	Ent	comology is the science that st	udi	es				
	a.	Behaviour of human beings						
	b.	Insects						
	c.	The origin and history of tech	nica	al and scientific terms				
	d.	Formation of rocks						
52.	The	e birthday of which of the lead	ler	in India is observed as Children's day?				
	a.	Mahatma Gandhi	b.	S. Radhkrishnan				
	c.	Rajiv Gandhi	d.	Jawaharlal Nehru				
53.	Wh	at is mean FSI						
	a.	Floor Space Index	b.	Free Site Inspection				
	c.	Free Site Index	d.	Flat Square Index				
54.	Wh	ich of the gas is not known as	gr	een house gas?				
	a.	Methane	b.	Nitrous oxide				
	c.	Carbon dioxide	d.	Hydrogen				
55.	The	e element common to all acids	is					
	a.	Hydrogen	b.	Carbon				
	c.	Sulphur	d.	Oxygen				
56.	Oft	he various non-conventional e	nei	gy sources that are being tapped, which				
	has	the largest potential?						
	a.	Solar power	b.	Wind power				
	0	Goothermal nower	А	None of these				

c. Geothermal power d. None of these

57. Wood is the main raw material for the manufacture of

paper b. paint a.

d. gun powder ink c.

58. Insulation is used to-

decrease heat transfer rate b. increase heat transfer rate a.

c. none of above d. All the above

59. Water functions in the body to

- a. serve as a medium for chemical reactions
- b. dissolve oxygen
- c. induce glycogen
- d. moderate metabolism

60. Ecology deals with

- a. Birds
- b. Cell formation
- c. Relation between organism and their environment
- d. Tissues

61. For purifying drinking water alum is used

- a. for coagulation of mud particles
- b. to kill bacteria
- c. to remove salts
- d. to remove gases

62. For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having

- a. low melting point
- b. high resistance
- c. high melting point
- d. low specific heat

63. What is the end product of anaerobic treatment?

a. oxygen

b. methane

c. Nitrogen

d. hydrogen

64. The force per unit length is the unit of

- a. Surface tension
- b. Compressibility

c. Capillarity

d. Viscosity

65. Nuclear reactors are used

- a. to produce heat for thermoelectric power
- b. to produce fissionable material
- c. to propel ships, submarines, aircraft
- d. all of the above

66. The main job of a CPU is to

- a. carry out program instructions
- b. store data/information for future use
- c. process data and information
- d. both a and b

67. The primary goal of a computer is to turn data into -

a. ideas

b. suggestions

c. information

d. reports

68. Central co-operative banks are in direct touch with

a. Farmers

- b. State co-operative banks
- c. Land development banks
- d. Central government

69. ICICI is the name of a

- a. Chemical industry
- b. Corporation

c. Bureau

d. Financial institution

70. Rain in which acids are combined is classified as

a. acid rain

b. allotropic rain

c. fossil rain

d. deoxygenated rain

71. The solid waste which is easily degradable that is called as

a. Plastic waste

b. Inorganic waste

c. Organic waste

d. All of above

72. What is the full form of GST					
	a.	Goods and Services Tax	b.	Goods and Sales Tax	
	c.	Gross Service Tax	d.	Goods and Stability Tax	
73.	Wh	ich of the following is used to	me	easure the discharge?	
	a.	current meter	b.	venturi meter	
	c.	pitot tube	d.	hotwire anemometer	
74.	Gro	ound water is accessed by	••••		
	a.	Drilling wells	b.	Drip irrigation	
	c.	Check bunds	d.	Constructing canals	
75.	The	function of water pump is to	••••	••••••	
	a.	transfer air from lower height	to l	nigher height	
	b.	transfer air from higher height	to	lower height	
	c.	transfer water from higher hei	ght	to lower height	
	d.	transfer water from lower heig	ght	to higher height	
76.	A po	erson of good understanding	kno	owledge and reasoning power	
	a.	Expert	b.	Intellectual	
	c.	Snob	d.	Literate	
77.	The	application letter is:			
	a.	a statement of your job objects	ive		
	b.	a description of your core strengths and suitability for the job			
	c.	a summary of your qualification	ons	and experience	
	d.	a foreword			

78. Select the pair which has the same relationship.

GRAIN: SALT

a. shard: pottery b. shred: wood

c. blades; grass d. chip: glass

79. Choose the correct alternative for underlined word which improve the sentence.

Taxpayers are to be o	conscious of their privileges.
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a. have to

b. need

c. ought to

d. No improvement

80. Find the correctly spelt word

a. Benefitted

b. Benifited

c. Benefited

d. Benefeted

81. Find the correctly spelt word

a. Humorous

b. Ganerous

c. Pupolous

d. Maretorious

82. Find out the proper sequence: When he

P: did not know

Q: he was nervous and

R: heard the hue and cry at midnight

S: What to do

The Proper sequence should be:

a. RQPS

b. QSPR

c. SQPR

d. PQRS

83. Choose the synonym for Brief

a. Limited

b. Small

c. Little

d. Short

84. Types of interview include

a. Job interview

b. delegation

c. appraisal

d. all of above

85.	The	e skills of enquiry are mainly		
	a.	speaking skills	b.	listening skills
	c.	creating and sharing ideas	d.	all of above
86.	Fin	d the odd one out		
	a.	Circle: Arc	b.	Chair: Leg
	c.	Flower: Petal	d.	Cover: Page
87.	Fill	up to blanks picking out from	n tł	ne choices.
	We	areto have him	he	ere to make this function a great success
	a.	pleased, over	b.	sure, come
	c.	wonderful, again	d.	happy, arrive
88.	Giv	e the antonym for the word l	Elev	ration
	a.	Depreciation	b.	Depreciation
	c.	Deflation	d.	Depression
89.	refe	ers to the time of action.		
	a.	Tense	b.	Transitive
	c.	Intransitive	d.	Main
90.	Fill	in the blank with proper wor	rd.	The rain comes the clouds.
	a.	in	b.	near
	c.	from	d.	under
91.	Eff	ective paraphrasing avoids th	e ri	isk of
	a.	Changing	b.	Noting
	c.	Copying	d.	Plagiarism
92.	The	e language of the report shoul	d b	e
	a.	Formality	b.	Formal
	c.	Casual	d.	Official

93.	93. Any word that adds more meaning to the noun is called an				
	a.	Adverb	b.	Verb	
	c.	Adjective	d.	Noun	
94.	Befo	ore, the meeting is concluded,	the	ere must be a	
	a.	Summary	b.	Question	
	c.	Discussion	d.	Agenda	
95.	Whi	ich of these must be avoided i	n n	neeting?	
	a.	Patience	b.	Tact	
	c.	Leadership	d.	Criticism	
96.	A gr	oup of words that gives the c	om	plete meaning is called as	
	a.	clause	b.	sentence	
	c.	phrase	d.	principal clause	
97.	Con	trolling the audience include			
	a.	eye contact	b.	your face	
	c.	gestures	d.	all of above	
98.	Spea	aking to a group of people in	an	official gathering is called as	
	a.	Oral presentation	b.	Meeting	
	c.	Visual presentation	d.	Audio presentation	
99.	The	skills of enquiry are mainly			
	a.	speaking skills	b.	listening skills	
	c.	creating and sharing ideas	d.	all of above	
100	. Re	ading comprehension means	unc	derstanding a text.	
	a.	Oral	b.	Written	
	c.	Usual	d.	Audio	