

This booklet consists of 100 questions and 12 printed pages.

RGUCET/2023/PG/11/12/13/19

Series

NIL

RGUCET 2023
MASTER OF SCIENCE IN AGRICULTURAL ECONOMICS /
AGRICULTURAL ENTOMOLOGY / AGRONOMY /
HORTICULTURE

Full Marks: 100

Time: 2 Hours

Roll No.

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Day and Date of Examination :

Signature of Invigilator(s) :

Signature of Candidate :

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). 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 15 minutes after the commencement of the entrance test or leave the examination hall before 30 minutes of end of examination.
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 candidate(s) is/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, RGU shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	First Global Conference on Women in Agriculture was in the year					
	a) 1990	b) 2012	c) 2015	d) 2022	b	2012
2	Indian Air Force Day is celebrated on					
	a) 8 th May	b) 8 th October	c) 16 th October	d) 8 th March	b	8 th October
3	Uber Cup is associated with					
	a) Hockey	b) Rowing	c) Cricket	d) Badminton	d	Badminton
4	Equal Remuneration Act was enacted in					
	a) 1976	b) 1995	c) 2015	d) 2022	a	1976
5	India's rank at World Press Freedom Index 2023 is					
	a) 95	b) 145	c) 150	d) 161	d	161
6	Surti is a breed of					
	a) Buffalo	b) Sheep	c) Goat	d) Cattle	a	Buffalo
7	SI unit of electrical resistance is					
	a) Ohm	b) Weber	c) Power	d) Ampere	a	Ohm
8	Indian Institute of Science is located at					
	a) Bengaluru	b) New Delhi	c) Mumbai	d) Chennai	a	Bengaluru
9	The kneecap of human body is also known as					
	a) Patella	b) Femur	c) Scapula	d) Torso	a	Patella
10	First country to give voting rights to women is					
	a) France	b) USA	c) New Zealand	d) India	c	New Zealand
11	What was the theme for World Food Day 2022?					
	a) Zero Hunger World	b) Leave no one behind	c) Food safety, everyone's business	d) Organic Food for all	b	Leave no one behind

12	Swachh Bharat Abhiyan was launched in:					
	a) 2014	b) 2015	c) 2016	d) 2018	a	2014

13	Russia has _____ its attack on Ukraine's capital Kyiv, in which many buildings have been destroyed (Select the most appropriate option)				d	Intensified
	a) Justified	b) Staged	c) Promulgated	d) Intensified		
14	Select the synonym of the given word winsome				c	Delighted
	a) Confused	b) Lethargic	c) Delighted	d) Victorious		
15	Select the appropriate antonym of the given word forsake				b	Retain
	a) Approve	b) Retain	c) Satisfy	d) Impress		
16	Which one is correct?				b	He died by suicide
	a) He died of suicide	b) He died by suicide	c) He died from suicide	d) He died with suicide		
17	He threw a stone _____ the dog				a	at
	a) at	b) on	c) for	d) towards		
18	Select the correct spelt word				a	Surveillance
	a) Surveillance	b) Surveilance	c) Surveillence	a) Surveillance		
19	Please post a letter (Write the passive form)				c	Let the letter be posted
	a) A letter was posted by me	b) A letter was posted	c) Let the letter be posted	d) I posted a letter		
20	He laughed at her (Write the passive form)				a	She was laughed at by him
	a) She was laughed at by him	b) She was laughed by him	c) She was laughed at by me	d) None of the above		

21	A worker makes a toy in every 2 hrs. If he works for 80 hrs, then how many toys will he make?				d	40
	a) 54	b) 45	c) 34	d) 40		
22	Twelve men complete a piece of work in 24 days. In how many days can 8 man complete the same piece of work ?				d	36
	a) 28	b) 48	c) 52	d) 36		

23	2898÷22÷2 is equal to				a	66
	a) 66	b) 53	c) 42	d) 165		
24	At present, the ratio of the ages of Maya and Chhaya is 6:5 and fifteen years from now, the ratio will get changed to 9:8. Find the present age of Maya.				a	30 yrs
	a) 30 yrs	b) 20 yrs	c) 18 yrs	d) 88 yrs		
25	What will be the surface area of the sphere having 4 cm radius?				a	64π sq cm
	a) 64π sq cm	b) 69π sq cm	c) 32π sq cm	d) 35π sq cm		

DOMAIN

26	The phenomenon of photorespiration was firstly observed in				c	Tobacco
	a) Wheat	b) Rice	c) Tobacco	d) Oat		
27	Which of the following is the respiratory substrate in floating respiration?				a	Carbohydrates
	a) Carbohydrates	b) Fats	c) Proteins	d) All of these		
28	The electron carrier in the electron transport system is				b	Cytochrome
	a) Peroxisome	b) Cytochrome	c) Mitochondria	d) None of these		
29	Lock and Key theory related to enzyme substrate relationship was given by				b	Fischer
	a) Koshland	b) Fischer	c) Thiaman	d) F.W. Went		
30	Which of the following enzyme belongs to transferase group?				a	Hexokinase
	a) Hexokinase	b) Phosphatase	c) Peroxidase	d) Polymerase		
31	The dormancy period of potato tubers can be increased by				d	All of these
	a) NAA	b) MH	c) IBA	d) All of these		
32	The DPD in a plasmolysed cell will be					

	a) Zero	b) >OP	c) Equal to WP	d) Equal to OP	d	Equal to OP
33	Cotton leaf curl virus is transmitted by				b	Bemisia tabaci
	a) <i>Aceria cajani</i>	b) <i>Bemisia tabaci</i>	c) <i>Aphis gossypii</i>	d) <i>Myzus persicae</i>		
34	The Father of Seed Pathology is				d	P. Neerguard
	a) Anton de Bary	b) E.C. Stackman	c) E.J. Butler	d) P. Neerguard		
35	The toxin produced by <i>Helminthosporium sp.</i> is				c	T- toxin
	a) Tentoxin	b) Tab toxin	c) T- toxin	d) All of these		
36	“Qualitative resistance” is also known as				b	Vertical resistance
	a) Horizontal resistance	b) Vertical resistance	c) Durable resistance	d) Polygenic resistance		
37	The plasmodium type thallus was reported by				a	Woronin
	a) Woronin	b) T.J. Burrill	c) E.F. Smith	d) H.C. Bastian		
38	The alternate host of bajra rust is				c	Brinjal
	a) Soybean	b) Mustard	c) Brinjal	d) Sunflower		
39	Teleomorphic spores produced by fungi is				d	Zygosporos
	a) Zoospores	b) Aplanospores	c) Sporangiospores	d) Zygosporos		
40	Pollinating agent in mango is				d	House fly
	a) Wasp	b) Weevil	c) Honey bee	d) House fly		
41	Edible part of pineapple is				c	Bracts
	a) Mesocarp	b) Endosperm	c) Bracts	d) Fleshy aril		
42	Hormone used for inducing flowering in pineapple is					

	a) NAA	b) GA3	c) Ethrel	d) IBA	c	Ethrel
43	Most promising rootstock for mandarins and sweet orange is				a	Rangpur lime
	a) Rangpur lime	b) Nagpur mandarin	c) Trifoliate orange	d) Kinnow		
44	Propagating method practiced in strawberry is through				b	runners
	a) suckers	b) runners	c) offsets	d) inarching		
45	Bahar treatment is followed in				b	Pomegranate
	a) Litchi	b) Pomegranate	c) Fig	d) Date palm		
46	Non-climacteric crop is				d	Litchi
	a) Guava	b) Banana	c) Papaya	d) Litchi		

47	First genetically modified crop is				c	Tomato
	a) Soybean	b) Cotton	c) Tomato	d) Maize		
48	The breeding technique involving crossing of two plants with identical or similar genomes to produce offspring with desirable traits is known as				c	Inbreeding
	a) Outbreeding	b) Crossbreeding	c) Inbreeding	d) Hybridization		
49	Nullisomic condition is represented as				a	2n-2
	a) 2n-2	b) 2n-1	c) 2n-1-1	d) 2n+1		
50	Number of chromosome present in wheat endosperm is				d	63
	a) 14	b) 21	c) 42	d) 63		
51	Which among the following plants produce recalcitrant seed?				c	Coffee
	a) Wheat	b) Pea	c) Coffee	d) Citrus		
52	According to the Plant Varieties Protection and Farmers' Rights Act, what is the duration of protection provided to plant varieties in India?				b	15 years

	a) 10 years	b) 15 years	c) 18 years	d) 20 years		
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53	Best age of dehorning in calf is				a	3-10 days
	a) 3-10 days	b) 10-20 days	c) 20-30 days	d) 30-40 days		
54	Jaffarabadi is a breed of				b	Buffalo
	a) Cattle	b) Buffalo	c) Sheep	d) Chicken		
55	Act of mating in pig is known as				d	Coupling
	a) Topping	b) Covering	c) Serving	d) Coupling		
56	Best Indian milch breed of cattle in India is				b	Sahiwal
	a) Gir	b) Sahiwal	c) Red-Sindhi	d) Tharparkar		
57	Ghoongroo a breed of pig originated from				c	West Bengal
	a) Meghalaya	b) Assam	c) West Bengal	d) Goa		
58	Coagulated milk product is				c	Dahi
	a) Kulfi	b) Ghee	c) Dahi	d) Kheer		
59	Blood meal is a rich source of				c	Lysine
	a) Isoleucine	b) Tryptophan	c) Lysine	d) Cystein		

60	Ideal pH range of soil for paddy is					
	a) 7.5-8.5	b) 5.5-6.5	c) 6.5-7.0	d) 4.5-5.5	b	5.5-6.5
61	Bleaching of peduncle beneath the ear is seen in some varieties of _____ at physiological maturity.					
	a) Pigeon pea	b) Sorghum	c) Pearl millet	d) Maize	c	Pearl millet

62	Which of the following soil types <i>are not</i> suitable for cultivation of green gram?					
	a) Saline	b) Acidic	c) Alkaline	d) Both saline and alkaline	d	Both saline and alkaline
63	The mineral/nutrient plays the most effective role in controlling the rate of transpiration					
	a) Potassium	b) Nitrogen	c) Zinc	d) Phosphorus	a	Potassium
64	Lysimeter is used to measure					
	a) Rainfall	b) Leaf area Index	c) Evapotranspiration	d) Evaporation	c	Evapotranspiration
65	According to National Agricultural Research Project of Indian Council of Agricultural Research, the total number of agro climatic zones in India is					
	a) 15	b) 99	c) 127	d) 149	c	127
66	According to the India Meteorological Department, a meteorological drought occurs when the annual rainfall is less than					
	a) 75% of normal	b) 50% of normal	c) 25% of normal	d) 15% of normal	a	75% of normal
67	In the adopter's distribution curve, the percentage of early adopter is					
	a) 13.5%	b) 2.5%	c) 34%	d) 16%	a	13.5%
68	The second stage of Innovation-Decision Process is					
	a) Decision	b) Conviction	c) Persuasion	d) Knowledge	c	Persuasion
69	First Extension Education Institute was established at					
	a) Jorhat	b) Hyderabad	c) Nilokheri	d) Anand	c	Nilokheri
70	Tall and thin body builds are the characteristics of					

	a) Mesomorph	b) Endomorph	c) Ectomorph	d) Metamorph	c	Ectomorph
71	Block Technology Team is a concept under					
	a) ATIC	b) ATARI	c) ATMA	d) KVK	c	ATMA

72	Entomological Society of India was founded in which year?				c	1938
	a) 1937	b) 1936	c) 1938	d) 1940		
73	Who was the first president of Entomological Society of India?				a	Afzal Hussain
	a) Afzal Hussain	b) H.S. Pruthi	c) R. Ayyar	d) None		
74	Insect body wall is called as				d	Both a and b
	a) Integument	b) Exoskeleton	c) Only a	d) Both a and b		
75	Which of the following is a unicellular layer resting on basement membrane?				a	Epidermis
	a) Epidermis	b) Endocuticle	c) Exocuticle	d) Epicuticle		
76	Which is the dilated distal part of oesophagus acting as food reservoir?				c	Crop
	a) Gizzard	b) Midgut	c) Crop	d) Hindgut		
77	Which of the following is useful for short circuit excess water found in liquid food in homopteran insects?				a	Filter chamber
	a) Filter chamber	b) Growth chamber	c) Goblet cells	d) Rectal pouch		
78	Thin, blind-ending tubules, originating near the junction of mid and hindgut, predominantly involved in regulation of salt, water and nitrogenous waste excretion is called				a	Malpighian tubules
	a) Malpighian tubules	b) Tracheal system	c) Rectum	d) Rectal gills		
79	Interspecific semiochemicals are also called				b	Allelochemicals
	a) Pheromomes	b) Allelochemicals	c) Both a and b	d) None of these		
80	Butenandt and his coworkers in 1959 isolated which sex pheromone?				a	Bombykol
	a) Bombykol	b) Gossyplure	c) Hellilure	d) Both a and b		
81	Synergism can be represented by				a	1+1>1
	a) 1+1>1	b) 1+1<1	c) 1+1=1	d) 0		

82	The nozzle of a sprayer is usually attached to spray lance by an angle of				d	120°
	a) 90°	b) 160°	c) 60°	d) 120°		

83	In which stage of production function, the variable resource is abundant relative to fixed resources?					
	a) 3 rd stage	b) 1 st stage	c) 2 nd stage	d) 4 th stage	c	2 nd stage
84	The capacity of a good to command other things is known as					
	a) Service	b) Utility	c) Value	d) Price	c	Value
85	In which stages of production function, $MR > MC$?					
	a) Sub-optimal stage	b) Optimal stage	c) Super-optimal stage	d) Supra-optimal stage	a	Sub-optimal stage
86	In which stage of production function MPP becomes negative?					
	a) 1 st stage	b) 2 nd stage	c) 3 rd stage	d) 4 th stage	c	3 rd stage
87	Net National Product (NNP) is equal to					
	a) GNP - Depreciation	b) GNP + Depreciation	c) GNP - GDP	d) GDP - Depreciation	a	GNP - Depreciation
88	Loan obtained from pawn brokers by pledging movable properties is					
	a) Chattel loan	b) Mortgage	c) Personal security	d) Open loan	a	Chattel loan
89	Running cost is also known as					
	a) Average cost	b) Fixed cost	c) Marginal cost	d) Variable cost	d	Variable cost
90	The amount of input per unit of output is called					
	a) Optimality	b) Productivity	c) Technical unit	d) Technical coefficient	d	Technical coefficient
91	Factor-factor relationship is concerned with the problem of					
	a) How to produce	b) How much to produce	c) What to produce	d) Where to produce	a	How to produce
92	The repayment period for short-term loan is					

	a) 2 years	b) 6 months – 18 months	c) 15 months – 5 years	d) 20 years	b	6 months – 18 months
93	Partial Repayment Plan is also known as					
	a) Reserve Repayment Plan	b) Variable Repayment Plan	c) Balloon Repayment Plan	d) Lumpsum Repayment Plan	c	Balloon Repayment Plan
94	A pan-India electronic trading portal which networks the existing APMC mandis to create a unified national market for agricultural commodities is					
	a) e-NAM	b) e-Choupal	c) Farmer's portal	d) mKisan	a	e-NAM
95	The word Economics is derived from					
	a) French word	b) Greek word	c) Latin word	d) Portuguese word	b	Greek word
96	Unconsolidated material overlying the rock is					
	a) Solum	b) Mineral	c) Parent material	d) Regolith	d	Regolith
97	Heart rot of sugar beet is due to					
	a) Boron	b) Calcium	c) Nitrogen	d) Manganese	a	Boron
98	Number of orders in soil taxonomy is					
	a) 10	b) 11	c) 8	d) 12	d	12
99	The density of whole earth is					
	a) 4.5 g/cm ³	b) 5.5 g/cm ³	c) 2.5 g/cm ³	d) 4.8 g/cm ³	b	5.5 g/cm ³
100	International Year of Soil is					
	a) 2015	b) 2013	c) 2022	d) 2023	a	2015

SPACE FOR ROUGH WORK