

**FIRST YEAR KGCE EXAMINATION IN AGROMACHINERY ENGINEERING
OPERATION AND MAINTENANCE OF AGRICULTURAL MACHINERIES**

(TRADE THEORY-I)

MODEL QUESTION PAPER SET-1

(Time : 3 hours)

(Maximum Marks: 60)

PART-A

(There should be at least 3 questions from each module)

(Maximum Marks: 20x1 Marks = 20 Marks)

- I. Answer the following questions by choosing the correct answer from the options given below.
Each question carries 1 mark.

Q No	Question	Module		
1	Pulverizer is used for	M 1.1		
	<table border="1"> <tr> <td>a. Freezing</td> <td>b. Soil preparation</td> </tr> <tr> <td>c. Powdering</td> <td>d. Heating</td> </tr> </table>		a. Freezing	b. Soil preparation
a. Freezing	b. Soil preparation			
c. Powdering	d. Heating			
2	A younger plant developed from seed is called	M 1.3		
	<table border="1"> <tr> <td>a. Grafting</td> <td>b. Seedling</td> </tr> <tr> <td>c. Budding</td> <td>d. Tissue culture</td> </tr> </table>		a. Grafting	b. Seedling
a. Grafting	b. Seedling			
c. Budding	d. Tissue culture			
3	In India, commonly used paddy transplanting machine is	M 1.2		
	<table border="1"> <tr> <td>a. TVS MOTOR.</td> <td>b. MARUTHI SUZUKI.</td> </tr> <tr> <td>c. KUBOTA.</td> <td>d. HNDUSTHAN MOTORS.</td> </tr> </table>		a. TVS MOTOR.	b. MARUTHI SUZUKI.
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c. KUBOTA.	d. HNDUSTHAN MOTORS.			
4	Outer cover of seed is known as	M 1.3		
	<table border="1"> <tr> <td>a. Seed coat</td> <td>b. Embryo</td> </tr> <tr> <td>c. Pistil</td> <td>d. Stigma</td> </tr> </table>		a. Seed coat	b. Embryo
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c. Pistil	d. Stigma			
5	F1 hybrid seed means	M 1.4		
	<table border="1"> <tr> <td>a. Sulfur added seed</td> <td>b. Genetically modified seed</td> </tr> <tr> <td>c. First generation of seed</td> <td>d. Final generation of seed</td> </tr> </table>		a. Sulfur added seed	b. Genetically modified seed
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c. First generation of seed	d. Final generation of seed			
6	The concentration of hydrogen and hydroxide ions in the soil is ascertained by determining its	M 2.2		
	<table border="1"> <tr> <td>e. pH</td> <td>f. water content</td> </tr> <tr> <td>g. alkaline</td> <td>h. salinity</td> </tr> </table>		e. pH	f. water content
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g. alkaline	h. salinity			
7	Which among the following soil is found largely in east side of Chittur , Palakkad ?	M 2.1		
	<table border="1"> <tr> <td>a. Red Loam</td> <td>b. Coastal alluvium</td> </tr> <tr> <td>c. Black soil</td> <td>d. Laterite</td> </tr> </table>		a. Red Loam	b. Coastal alluvium
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c. Black soil	d. Laterite			
8	Which among the following is not a major component of soil ?	M 2.2		
	<table border="1"> <tr> <td>a. Rocks</td> <td>b. Mercury</td> </tr> <tr> <td>c. Minerals</td> <td>d. Water</td> </tr> </table>		a. Rocks	b. Mercury
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c. Minerals	d. Water			

9	The relative proportions of the various soil separates in a soil are termed		M 2.2
	a. Soil formation	b. Soil texture	
	c. Soil pH	d. Soil chemistry	
10	Rock phosphate can be safely used intype of soil		M 2.2
	a. Laterite soil	b. Alkali soil	
	c. Black soil	d. Acid soil	
11	Micro irrigations requires		M 3.1
	a. Large quantity of water	b. Optimum quantity of water	
	c. Small quantity of water	d. No water	
12	Which of the following is the water outlet of micro irrigation system		M 3.2
	a. Dripper	b. Rain gun	
	c. Sprinkler	d. Tap	
13	Advantage of P.V.C. pipe is		M 3.3
	a. Light weight	b. Corrosion free	
	c. Cost effective	d. All of the above	
14 helps the pipeline to branch off at 90°.		M 3.3
	a. Tee bow	b. Coupling	
	c. Elbow	d. Union	
15	Which among the following is not an irrigation system		M 3.2
	a. Drip	b. Surface	
	c. Sprinkler irrigation	d. Rainfall	
16is a class –I food preservative.		M 4.1
	a. KMS	b. Sodium sulfate	
	c. Sulfur	d. Sugar	
17	Which of the following technique is used for extracting honey		M 4.1
	a. Fume Board	b. Crush and drain	
	c. Centrifugal method	d. Flow frames	
18	Process of adding vitamins to milk is known as.....		M 4.2
	a. Flavoring	b. Fortification	
	c. Fermentation	d. Sterilization	
19	What is the full form of <i>fssai</i> ?		M 4.1
	a. Food Safety and Standards Authority of India	b. Food supplements and Standards Authority of India	
	c. Food supplements and Safety Authority of India	d. Food Safety and Supplements Authority of India	
20	What content of milk makes it sweet?		M 4.2
	a. Lactose	b. Saccharin	
	c. Glucose	d. Minerals	

PART-B

(There should be at least 2 questions from each module)

(Maximum Marks: 8x5 Marks = 40 Marks)

II. Answer *any eight* questions from the following. Each question carries marks.5 Marks.

Q No	Question	Module
1	Define farm power machinery?	M 1.1
2	Write the functions of seed drill?	M 1.2
3	Which are the major parts of a transplanting machine?	M 1.2
4	Define soil?	M 2.1
5	Which are the important physical and chemical properties of soil?	M 2.2
6	List the important methods of correcting soil pH.	M 2.3
7	Explain the different methods of agricultural irrigation systems.	M 3.1
8	Write down the advantages of micro irrigation systems.	M 3.2
9	Draw a layout of fertigation system.	M 3.2
10	Define the food processing technology.	M 4.1
11	Differentiate class-I and Class-II preservatives.	M 4.1
12	Draw the flow chart indicating the process of jam making.	M .4.1