

TIME: 1 HOUR

INSTRUCTIONS:

Attempt all the questions.

(ii) Marks for each question are shown in the parenthesis ().

(iii)Electronic calculators may be used.

(iv)DO NOT WRITE ON THE QUESTION PAPER.

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solid agricultural materials.	of the volume of	Briefly describe experimental as displayed	(iv)Porosity	(iii)Angle of repose	(ii) Shape	(i) Size	1. What is the essence of the following properties in scientific and in the interest in the second in th
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	sed					DIIP	
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	determine					ustrial ap	
6	the	(1 1	(1)	1	1	plica	:
(6 marks)	volum	nark)	(1 mark)	(1 mark)	(1 mark)	tions?	
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w (o marks)

Distiguish the following terms:

(i) Strain energy density and resilience.

(ii) Shear thinning fluid and shear thickening fluid

(iii) Bingham and Non-Bingham plastic fluids

Briefly describe the elastic and viscous models.

(2 marks)

(2 marks)

(2 marks)

S milling. Determine the: In an industrial process, 2000 kg of rice at 21% moisture is dried to 13% moisture before

(i) final weight of the rice

(ii) amount of water that must be evaporated during the drying process (2 marks) (3 marks)
