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Question Paper Code: U5A02

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Fifth Semester

Agriculture Engineering

21UAG502 – **FARM MACHINERY AND EQUIPMENT**

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- Which harrow is known as knife harrow? CO2- App
(a) Patela (b) Spring tooth harrow (c) Triangular harrow (d) Acme harrow
- How much percent of farm holding belong to small and marginal farmers? CO1- U
(a) 75% (b) 25% (c) 64% (d) 36%
- What is the field capacity of a potato planter (semi-automatic)? CO1- U
(a) 0.15-0.25 ha/hr (b) 0.10-0.14 ha/hr (c) 0.40-0.55 ha/hr (d) 0.09-0.14 ha/hr
- In which process of seeding, the seeds are placed in the holes made in seed bed and covering them? CO1- U
(a) Broadcasting (b) Transplanting (c) Dibbling (d) Drilling
- Which part of power sprayer is used to break the liquid into desired spray and deliver to plants? CO1- U
(a) Boom (b) Nozzle (c) Strainer (d) Pressure gauge
- Hand atomizer is used for spraying in _____. CO1- U
(a) orchard (b) field crop (c) nursery (d) forests
- A two-bladed flywheel type forge cutter rotates at 50 rev/min at a feed rate of 1.26 m/min. What will be the theoretical length of cut of forge? CO2- App
(a) 0.0126 m (b) 0.2598 m (c) 0.3232 m (d) 0.1234 m
- A multi-crop thresher is used for threshing CO1- U
(a) Wheat (b) Paddy (c) Soyabean (d) All are correct

20. (a) Explain the term of anthropometry. CO1-U (16)
- Or
- (b) List the factors considered for the selection of farm machines? CO1-U (16)

