

Ex/CON/PC/B/T226/2023

**BACHELOR OF CONSTRUCTION ENGINEERING EXAMINATION, 2023**

( 2nd Year, 2nd Semester )

Time : Three hours

**CONSTRUCTION PLANTS AND PROCESS**

Full Marks : 100

(50 Marks for each Part )

Use Separate Answer script for each Part

**PART I**

**Answer all the questions:**

$$4+( 5+3 \times 2+5+5) +(6+4+5)=40$$

1. What are the basic parameters that determine the acceptance of any material for construction in construction industry?
2. Give a flow chat ONLY of manufacturing process of RMC. Describe briefly on vibration & curing. What are the reasons for use of concrete pump? What factors must be considered When selecting a pump to be used in a process?
3. Differentiate between centering and shuttering .Describe in tabular form the merits and demerits of welding. Give neat sketch of a bolt & label different parts.

[ Turn over

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Ref. No. Ex. Ex/CON/PC/B/T/226/2023**B. CONS. ENGG. 2<sup>ND</sup> YR 2<sup>ND</sup> SEMESTER EXAM.-2023****CONSTRUCTION PLANTS AND PROCESS****Time : Three hours****Full Marks : 50****Group / Part : I****Instructions : Use Separate Answer scripts for each Group  
Answer All Questions**

<b>No of Questions</b>	<b>Part II</b>	<b>Marks</b>
Q1.a)	<p>Answer all questions.</p> <p>Draw a sketch of crawler mounted excavator and show different parts. Which part of a excavator is to be changed to accommodate different depth and width of excavation. In a excavation procedure of mountain river bed area , what will be your preference crawler mounted or tyre mounted excavator</p>	10+2+3