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SHRI VAISHNAV POLYTECHNIC COLLEGE,INDORE (M.P.)
CIVIL ENGG.DEPARTMENT SESSION :- JAN-JUNE 2020
CLASS : 4th SEM CIVIL ENGINEERING
SUBJECT : SOIL MECHANICS

Que.1- Explain in brief the geological cycle of soil formation.

Que.2- Explain 3-Phase and 2- phase system.

Que.3- Derive relationship between Degree of saturation (S), Void ratio (e), Water content (w) and Specific gravity (G).

Que.4- Describe Calcium Carbide and Oven dry method of determination of water content.

Que.5- Explain in brief methods of determination of field density.

Que.6- Write short note on particle size analysis.

Que.7- Why wet sieving is carried out for fine grained soil.

Que.8- An undisturbed soil sample has volume of 0.02 cubic meters and weight 0.30 kN. On oven drying, the weight is reduced to 0.27 kN. If specific gravity of the grain is 2.6, determine water content, void ratio and degree of saturation.

Que.9- A sample of saturated clay was placed in a container and weighed. The weight was 6N. The clay in container was placed in an oven dry for 24 hours and weight reduced to a constant weight of 5N. The weight of the container is 1N. G = 2.7. Determine water content, void ratio, bulk density and dry density.

Que.10- How specific gravity of soil is determined by Pycnometer?

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CIVIL ENGG.DEPARTMENT SESSION :- JAN-JUNE 2020
CLASS : 4th SEM CIVIL ENGINEERING
SUBJECT : MECHANICS OF STRUTURES

*For questions 1-4, the moment of inertia is to be determined about the horizontal axis passing through the centroid.

Que.1- Find the moment of inertia of T- section where web is 10x4 cm and flange is 8x2 cm.

Que.2- Find the moment of inertia of I- section where top flange is 8x2 cm, web is 8x2 cm and bottom flange is 12x3 cm.

Que.3- Find the moment of inertia of channel section where flange is 8x2 cm and web is 10x2 cm.

Que.4- Find the moment of inertia of an equilateral triangle of size 12cm.

Que.5- Draw S.F. and B.M. diagram of a cantilever of length 4m with two point loads of 8kN and 10kN acting at 1m from fixed end and at the midpoint respectively.

Que.6- Draw B.M. and S.F. diagram of a cantilever of 3m length with a UDL of 4kN/m on the entire span and a point load of 6kN at centre.

Que.7- Draw S.F. and B.M. diagram of a simply supported beam of length 6m with two point loads of 6kN and 8kN at 2m and 3m from left support respectively.

Ques.8- Draw S.F. and B.M. diagram of a simply supported beam of 6m span with a UDL of 4kN/m on the entire span and a point load of 12kN at mid point.

Que.9- Write parallel axis and perpendicular axis theorem of moment of inertia.

Que.10- Draw bending stress diagram of a rectangular beam 40cm wide and 60cm deep of length 6m loaded with UDL of 4kN/m.

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SHRI VAISHNAV POLYTECHNIC COLLEGE,INDORE (M.P.)
CIVIL ENGG.DEPARTMENT SESSION :- JAN-JUNE 2020
CLASS : 4th SEM CIVIL ENGINEERING
SUBJECT : MARKETING MANAGEMENT

"MARKETING @ MANAGEMENT

① what difference b|w Marketing and sales? Explain importance of Marketing.
विपणन और विक्रय में क्या अंतर है? विपणन के महत्व को समझाइए।

② write scope and importance of Marketing planning.
विपणन नियोजन के क्षेत्र एवं महत्व को समझाइये।

③ what do you understand by Marketing Environment?
विपणन पर्यावरण से आप क्या समझते हैं?

④ Define Marketing concept. Explain its importance and the scope in detail at the present time.
विपणन अवधारणा को परिभाषित कीजिए। वर्तमान समय में इसके महत्व और क्षेत्र की व्याख्या करें।

⑤ Explain marketing segmentation.

⑥ Factors affecting price determination.
मूल्य निर्धारण को प्रभावित करने वाले कारक

⑦ Elements of Marketing plan.
विपणन योजना के तत्वों को समझाइए।

⑧ Explain Packaging and Labelling
पैकिंग व लेबलिंग को समझाइए।

⑨ what do you mean by Buyer Behaviour.

⑩ Explain in detail to Marketing Management
विपणन प्रबंधन को विस्तार से समझाइए।

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CIVIL ENGG.DEPARTMENT SESSION :- JAN-JUNE 2020
CLASS : 4th SEM CIVIL ENGINEERING
SUBJECT : TRANSPORTATION ENGINEERING-I

Que.1- Draw a typical cross-section of a Permanent Way.

Que.2- Explain conning of wheels, what is its necessity and what are its advantages.

Que.3- What is gradient on railway track? How is it expressed?

Que.4- State the purpose of providing gradient on a railway track.

Que.5- What is super elevation? Explain with neat sketch.

Que.6- Explain negative super elevation.

Que.7- Explains rails- Definition, diagram and classification.

Que.8- State the functions of railway ballast. Enlist the characteristics of good ballast.

Que.9- Explain the different types of materials used as ballast in Indian railways.

Que.10- What is Gauge? Explain.

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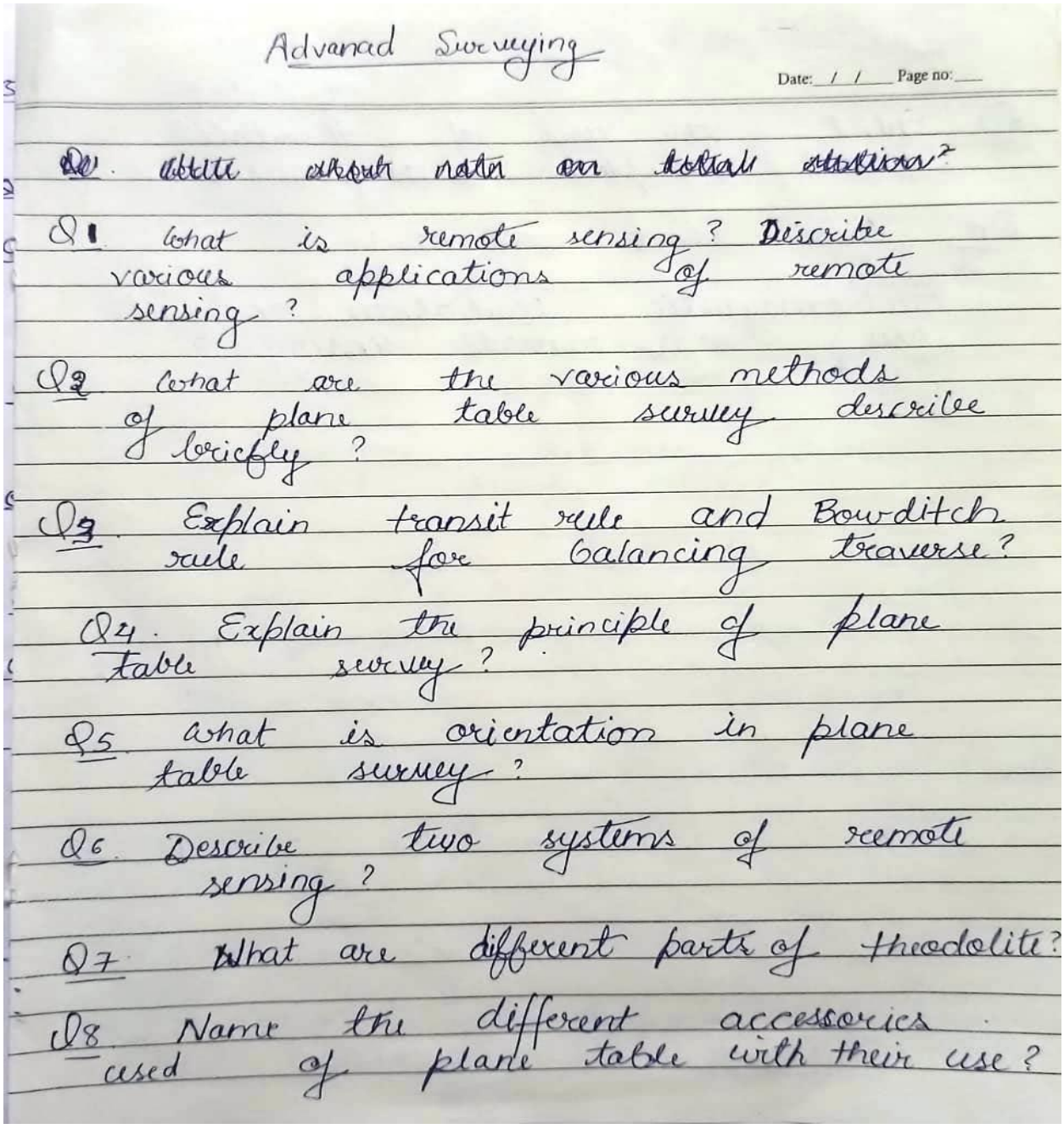
CIVIL ENGG.DEPARTMENT SESSION :- JAN-JUNE 2020
CLASS : 4th SEM CIVIL ENGINEERING
SUBJECT : ADVANCE SURVEYING



Advanad Surveying

Date: / / Page no:

Q0. ~~Write about note on Total stations?~~

Q1 What is remote sensing? Describe various applications of remote sensing?

Q2 What are the various methods of plane table survey describe briefly?

Q3 Explain transit rule and Bowditch rule for balancing traverse?

Q4. Explain the principle of plane Table survey?

Q5 What is orientation in plane table survey?

Q6 Describe two systems of remote sensing?

Q7 What are different parts of theodolite?

Q8 Name the different accessories used of plane table with their use?

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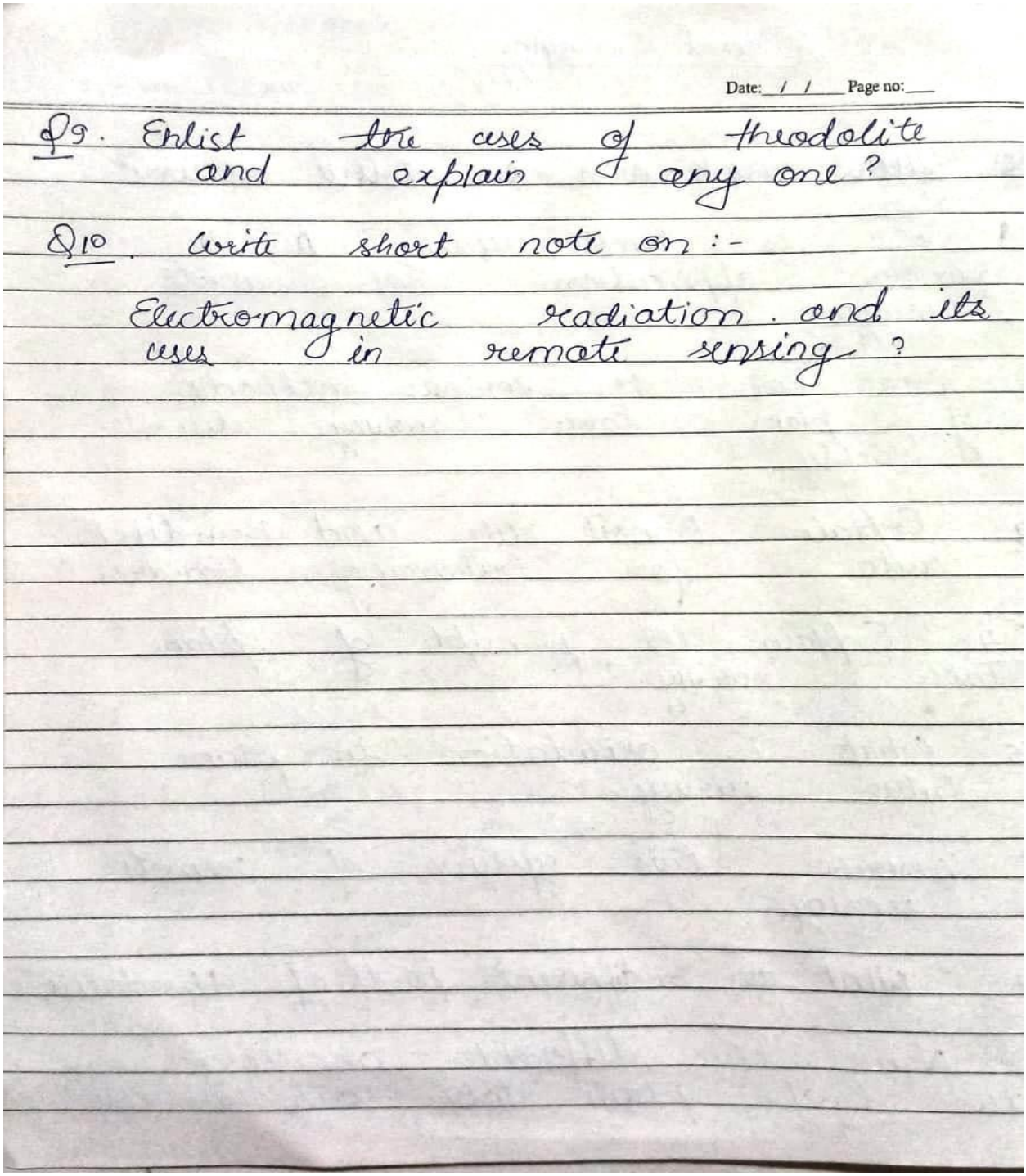

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Q9. Enlist the uses of theodolite and explain any one?

Q10. Write short note on :-

Electromagnetic radiation. and its uses in remote sensing?