

MODEL QUESTION PAPER-02



UIN

--	--	--	--	--	--	--	--	--	--

SUB CODE: 19KBBCV13/23

Faculty of Engineering and Technology
Second Semester Degree Examination
SUB: BASIC CIVIL ENGINEERING

Time: 3 Hrs

Max Marks: 100

Section-A

I. Answer any Ten Questions from the following (02 marks each).

(02x10=20 marks)

- Q1.) Write a short note on Surveying.
- Q2.) Write a short note on Building Materials.
- Q3.) Write a short note on Construction Technology.
- Q4.) Define a flexible pavement.
- Q6.) Define a Rigid Pavement.
- Q7.) What is a storage dam.
- Q8.) Define cement.
- Q9.) What is first class brick.
- Q10.) What is sundried brick.
- Q11.) State parallelogram law of force.
- Q12.) State Physical independence of force.
- Q13.) Define a couple.
- Q14.) Define resultant of force.
- Q15.) Define axis of reference.

Section-B

II. Answer any Five full Questions from the following (08 marks each).

(08x5=40 marks)

- Q1.) Write a brief note on the following
(1) Environmental engineering (2) Geotechnical Engineering (3) Structural Engineering (4) Hydraulics
- Q2.) With a neat sketch explain rock fill dam.
- Q3.) Write a brief note on the following
(1) Bascule bridge (2) skew bridge (3) square bridge (4) Beam and Slab Bridge
- Q4.) Explain the composition of ordinary cement.
- Q5.) Explain the composition of bricks
- Q6.) Explain Newton's laws of motion.
- Q7.) Derive an expression for the centre of gravity of a plane figure.
- Q8.) State the points to solve on equilibrium of coplanar concurrent and non-concurrent system.

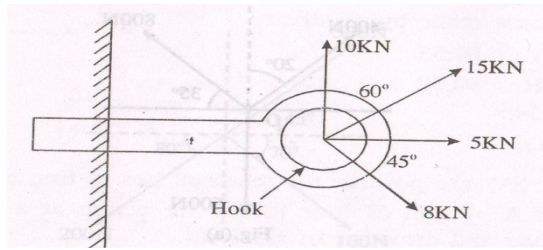
Section-C

III. Answer any Four full Questions from the following (10 marks each).

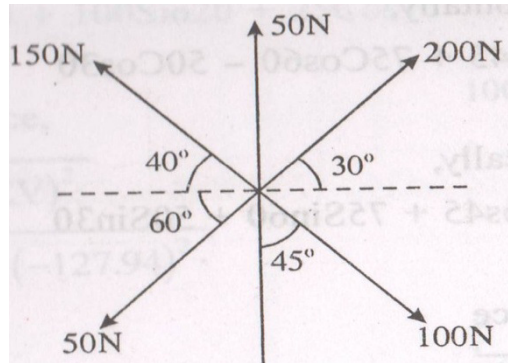
(04x10=40 marks)

- Q1.) Briefly give the scope of different fields in Civil Engineering.
- Q2.) With neat sketch explain the types of bridges depending upon the position of floor of Superstructure
- Q3.) Explain the classification of stones and mention its uses.
- Q4.) State and prove Lami's Theorem

Q5.) Find the value of resultant of the system of forces as shown in the below fig.



Q6.) A system of forces are acting on a body as shown in the below fig. Determine the magnitude and direction of the resultant.



Q7.) Locate the centroid of the I-section as shown in the below fig.

