

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Backlog), November-December 2015

B. Tech in Civil Engineering, Semester V

Roll No.....

CE 502: CONCRETE STRUCTURE - I

Time: 3 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units and drawing neat sketches wherever, required are an integral part of the answer.
4. Use of IS: 456 and SP-16 is permitted in examination.
5. Use of non-programmable calculator is permissible.

Q.1	Objective type questions (10 questions @ 1 mark)	10
i.	Select the incorrect statement A) R.C.C has better fire resistance than steel B) R.C.C. structure is economical than steel structure C) Strength of concrete decreases as age increases D) R.C.C can be used for under water and marine structures	
ii.	As per IS. 456-2000, Minimum grade of concrete for R.C.C. should be A) M10 B) M15 C) M20 D) M25	
iii.	Specific weight of Reinforced cement concrete is A) 25 N/mm ³ B) 25 kN/mm ³ C) 25 N/m ³ D) 25 kN/m ³	
iv.	As per IS: 456-2000, the maximum size of aggregate is A) 1/4 of maximum thickness of member B) 1/4 of minimum thickness of member C) 1/5 of maximum thickness of member D) 1/5 of minimum thickness of member	
v.	Side face reinforcement is provided when the depth of beam exceeds A) 250 mm B) 450 mm C) 550 mm D) 750 mm	
vi.	If depth of actual neutral axis is greater than depth of critical neutral axis, then A) Concrete attains its permissible stress earlier B) Steel attains its permissible stress earlier C) Both concrete and steel reaches its permissible stresses simultaneously D) None of the above	
vii.	Mat is a shallow foundation supporting A) number of columns in one row B) only one column C) number of columns in more than one row D) piles	
viii.	The anchorage value of the hook for a mild steel bar is generally considered as A) 8 Φ B) 16 Φ C) 32 Φ D) 48 Φ	
ix.	Limit state of collapse deals with A) strength and stability of the structure B) durability C) conditions such as deflection, cracking D) all the above	

