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End Semester Examination (ESE), 2020

SCTE ASSAM	scте assam scте assam sc Semester: 6th am scте assam scте assam
	Subject: DESIGN OF STEEL STRUCTURES
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	scте assam scте assa Total Marks: 56 Marks е assam scте assam
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SCTE ASSAM	SCTE ASSANAIL questions are compulsory E ASSAM SCTE ASSAM
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Q. Noassam	scte assam scte assam asam assam : Description ^e assam scte asam
SCTE ASSAM	SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM
SCTE ASSAM	^S As per IS code800: 2007, the minimum pitch of rivets in a row is
s l TE ASSAM	SCTE ASSAM SCRECOMMENDED as the diameter of the rivet times-
SCTE ASSAM	scte assamed te assamed assamed $(2.5, 3.5)$ scte assamed $(3.5, 3.5)$
SCTE ASSAM	SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM
$^{s}\!\hat{2}^{ extsf{te} extsf{assam}}$	What is the maximum size of fillet weld for a plate of square edge?

S 2 TE ASSAN SCTE ASSAN	^S What is the maximum size of fillet weld for a plate of square edge?	1
SCTE ASSAN S 3 TE ASSAN SCTE ASSAN	nos. of 16mm bolts in a chain bolting?	1
SCTE ASSAN 4	What is called slenderness ratio?	1
	^{SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM ^{SCTE ASSAM SCTE Allowable average shear stress in an un-stiffened web for SCTE ASSAM SCTE Abeams made of steel (grade 250N/mm2)? SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM}}	1
	scte Assam scte Assam scte Assam scte Assam scte Assam scte Assam The maximum deflection ratio of a steel member should not exceed- scte (a) AM1/300 SSAMb) 1/325M SCT c) 1/375 (d) 1/500 (e ASSAM	1

Mark

1

7	Calculate throat thickness for 8mm size of weld $(\theta = 95^{\circ})$?	1
8	The design tensile strength of a steel section due to gross section yielding T _{dg} is given by— a) A _g f _y /γ _{m0} b) Af _y /2.5 c) A _g f _y /γ _{m1} d)Af _{y/γm2}	1
9 SCTE ASSAN	A section is said to be plastic when outstand of compression flange scre assam scre assam scre assam scre assam scre assam scre assam is- scre a) an >9.4 assb) <9.4 assamc) < 10.4 ascre d) <11.5 assam scre assam scre assam scre assam scre assam	1
	SCTE ASSAMWhat is the axial tension for power driven fasteners?	1
SCTE ASSAN	л SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM	
scte assan 11 scte assan	plates of 10mm thick. Thickness of the cover plate is 5mm, find	3
$12^{\scriptscriptstyle E \scriptscriptstyle ASSAN}$	Explain the various types of welded joints? ^{M SCTE ASSAM}	3
SCTE ASSAN ¶3 ⁻ E ASSAN SCTE ASSAN	thickness of plates as 10mm and 14mm. The load applied in the	3
scte assan scte assan 14 e assan scte assan	(plate)= 108mpa Gusset plate	3
scte Assan 15 scte Assan	SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM What are the factors affecting the strength of tension members? SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM SCIE ASSAM	3
scte assan scte assan 16 scte assan	scre Assam scre Assam scre Assam scre Assam scre Assam scre Assam scre Assam scre Assam scre Assam scre Assam scre Assam What are the design steps for design of a compression member? scre Assam scre Assam scre Assam scre Assam scre Assam	4
scte assan scte assan 17 scte assan	Write two advantages and disadvantages of bolted connections?	4
	SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTE ASSAM SCT What are called lug angles, gusset plates and laterally supported SCTE ASSAM SCTE ASSAM SCTE ASSAM SCTEbeams? TE ASSAM SCTE ASSAM	4
<u>эсте азбал</u> 19	Determine the design tensile strength of a plate (160*8)mm connected to a 12mm thick gusset using 16mm diameter bolts as shown in fig If the yield and ultimate stress of the steel used are	4

