Roll Number	

(a)  $0^{\circ}$ 

(b)  $45^{\circ}$ 

SET A



## INDIAN SCHOOL MUSCAT

		FINAL TERM EXAMIN ENGINEERING GRA					
CLASS: XII		Sub. Code: 046	•	Time Allotted: 3 Hrs			
13.11	.2018			Max. Marks: 70			
Gene	ral Instructions:						
(i)	All dimensions are in milli	metres.					
(ii)	Missing and mismatching	limensions, if any, may	be suitably assumed.				
(iii)	Follow the SP: 46, 2003 revised codes. (with First angle method of projection)						
(iv)	In no view of question 1, are hidden edges or lines required.						
(v)	In question 4, hidden edges	s or lines are to be shown	n in views without section	n.			
Q1	(a) Construct an isometric s	cale.			03		
	(b) Draw the isometric projection of frustum of hexagonal pyramid (base edge = 30mm, top edge = 40mm, height=60mm) with one base edge parallel to V.P. and its axis perpendicular to the H.P. Give all the dimensions and indicate the direction of viewing.						
	(c) An upright cylinder (di rectangular face of a pentag on one of its face edges on this combination of solids.	onal prism (base side = 4 H.P. with axis perpendic	40mm and axis = 70mm) cular to V.P. Draw the iso	. The prism is resting metric projection of	14		
Q2	a) Draw to scale 1:1, the from the axis perpendicular to H.	ont view, top view and le	eft side view of a J – Bolt	_	08		
	(b) Sketch freehand the frokeeping its axis vertical. Gi	-	•	ad screw of size M25,	05		
Q3	Answer the following Mult	ple Choice Questions. 1	Print the correct choice or	n your drawing sheet	05		
	(i) What is the thread angle	e in degrees of a Metric	thread?				
	(a) 30° (b) 45° (ii) A circle drawn in isome	(c) 60° tric projection appears a	(d) 90° s?				
	(a) Circle (b) Rou (iii) Section lines are genera	` '	(d) Spherical se, at an angle of?				

(c)  $50^{\circ}$ 

(d)  $90^{\circ}$ 

- (iv) What is the Turn Buckle also known as?
  - (a) Gib and cotter joint

(b) Sleeve and cotter joint

(c) Tie rod joint

- (d) Stud
- (v) M in dimension Stud of "M20 "stands for
  - (a) Metric Thread Profile
- (b) Square Thread Profile
- (b) Knuckle Thread Profile
- (d) B.S.W. Thread Profile
- Q4 Figure 1 shows the drawing details of different parts of a **FLANGED PIPE JOINT** for joining two square rods. Assemble all the parts correctly and draw the following views to scale 1:1
  - (i) Front view, upper half in section.

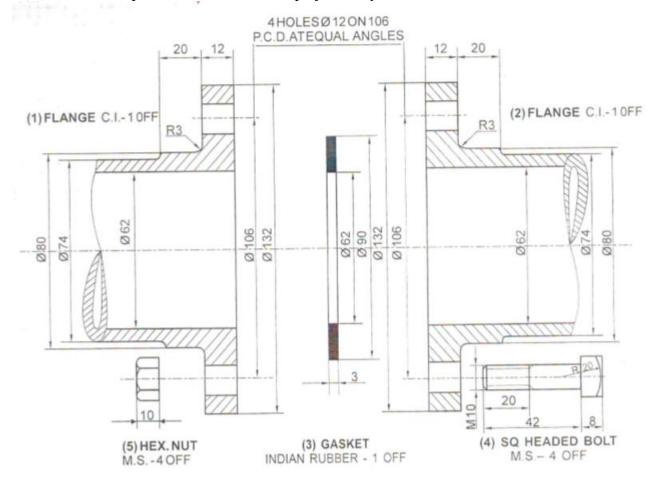
14

(ii) Left side view

08

(iii) Give 6 important dimensions, title, projection symbol and scale.

06



DETAILS OF A FLANGED PIPE JOINT

**End of the Question Paper**