

INDIAN SCHOOL AL WADI AL KABIR

Class: XII	Department: SCIENCE	
MARKS: 35	SAMPLE PAPER - 3 ENGINEERING GRAPHICS (046)	DURATION :90 mins

<u>SECTION – A</u>

MULTIPLE CHOICE QUESTIONS

S.NO	QUESTIONS	
		MARKS ALLOTED
1.	is a modified form of square thread a. Square thread b. BSW thread c. Metric thread d. Knuckle thread	1
2.	The projection mostly used by artists, professional designers and architects a. Perspective projection b. Axonometric projection c. Orthographic projection d. Oblique projection	1
3.	 Which type of projection has only two angles between three principal axes are equal and over 90 degree a. Orthographic projection b. Isometric projection c. Diametric projection d. Trimetric projection 	1
4.	A continuous helical groove cut along the outer circumference of a cylindrical surface is called a. Screw thread b. Pitch c. Lead d. Crest	1
5.	is used to measure the foreshortened length of dimensions of any object to draw the isometric projection.	1

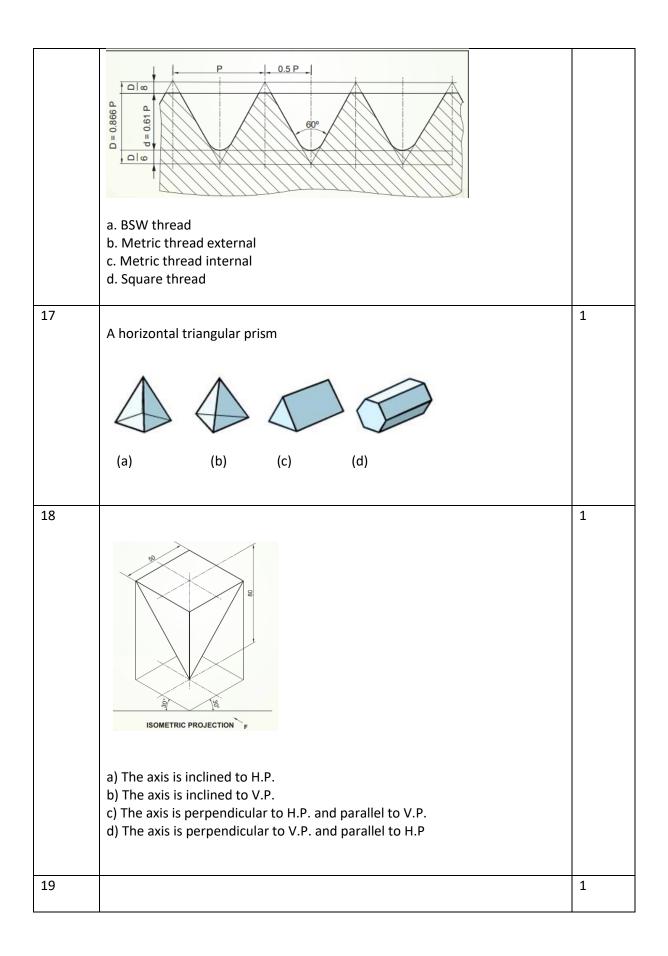
	a. True scale	
	b Vernier scale	
	c. Isometric scale	
	d. T scale	
6.	The isometric projection of a circle is	1
	a. Square	
	b. Ellipse	
	c. Circle	
	d. Sphere	
7.		1
/.	The thread which is formed on the surface of cone is called as?	1
	The unlead which is formed on the surface of cone is called as?	
	a. Parallel thread	
	b. Taper thread	
	c. Internal thread	
	d. Square thread	
	· · · · · · · · · · · · · · · · · · ·	
8.	In isometric projection three principal axes appear to be inclined to	1
	each other at an angle of	
	a. 30 degree	
	b. 45 degree	
	c. 15 degree	
	d. 120 degree	
	C C	
9.		1
	The solids with single base and triangular faces are called as	
	a. Prisms	
	b Pyramids	
	•	
	c. Triangles	
	d. Circles	
10	Three mineral error in increase in the second state of the second	1
10.	Three principal axes in isometric projection to the horizontal base	1
	line will appear to be like	
	a. 90,30,90	
	b. 30,90,30	
	c. 30,120,30	
	d.30,90,120	
11.		1
	Why chamfering is done in nuts and bolts?	
	a. Ensure safety of users	
	b. Provide bearing surface	
	c. For stability	
	d. For sharpness	

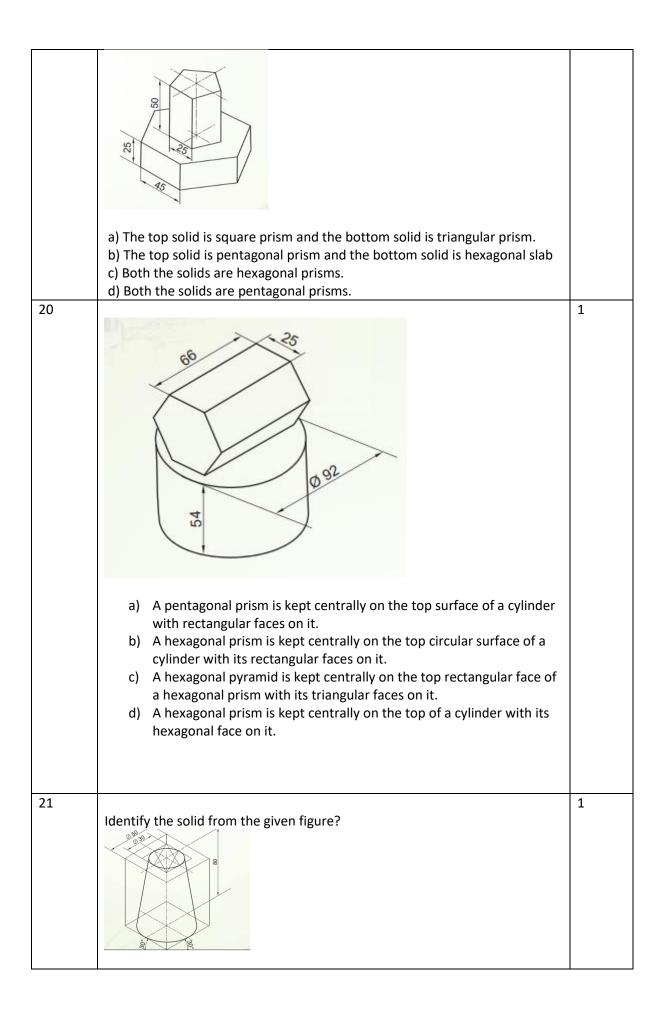
12.	Formula for calculating the minor diameter 'd' in metric thread internal is? a. d = 0.54P b. d = 0.61P c. d= 0.64P d. d = 0.86P	1
13.	The angle between the flanks of metric thread is a. 45 degree b. 60 degree c. 30 degree d. 55 degree	1
14.	 An external thread is represented by a. Continuous minor diameter circle b. Discontinuous minor diameter circle c. Continuous major diameter circle d. Discontinuous major diameter circle 	1
15.	In which type of threads, both crests and roots are round?	1
	a. Metric thread externalb. Metric thread internalc. BSW threadd. Square thread	

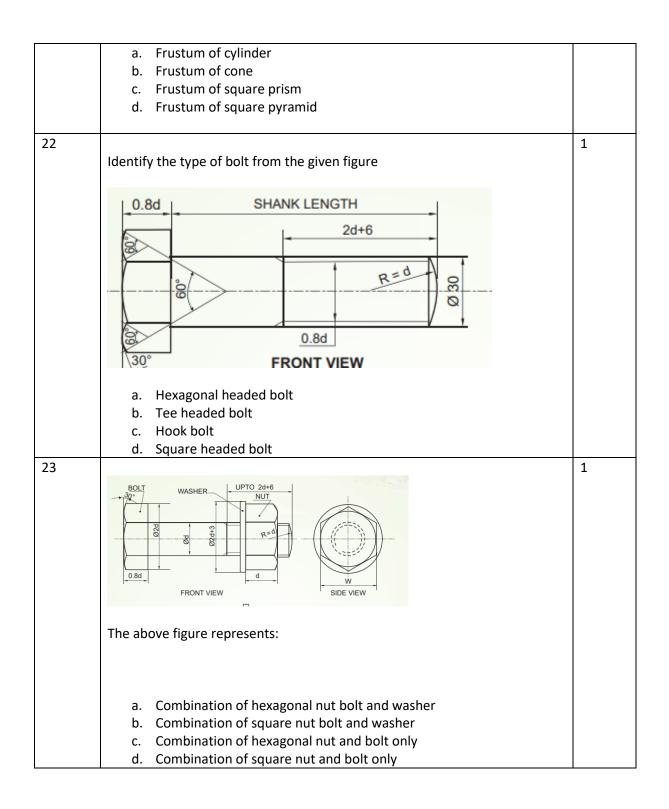
<u>SECTION – B</u>

DIAGRAM BASED QUESTIONS

16.		1
	Identify the type of thread from the given figure?	







ASSERTION & REASONING TYPE QUESTIONS

TWO STATEMENTS ARE GIVEN – ONE LABELLED ASSERTION (A) AND THE OTHER LABELLED REASON (R). SELECT THE CORRECT ANSWER TO THE FOLLOWING QUESTIONS FROM THE CODES (a), (b), (c) AND (d) AS GIVEN BELOW:

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true and R is not the correct explanation of A.

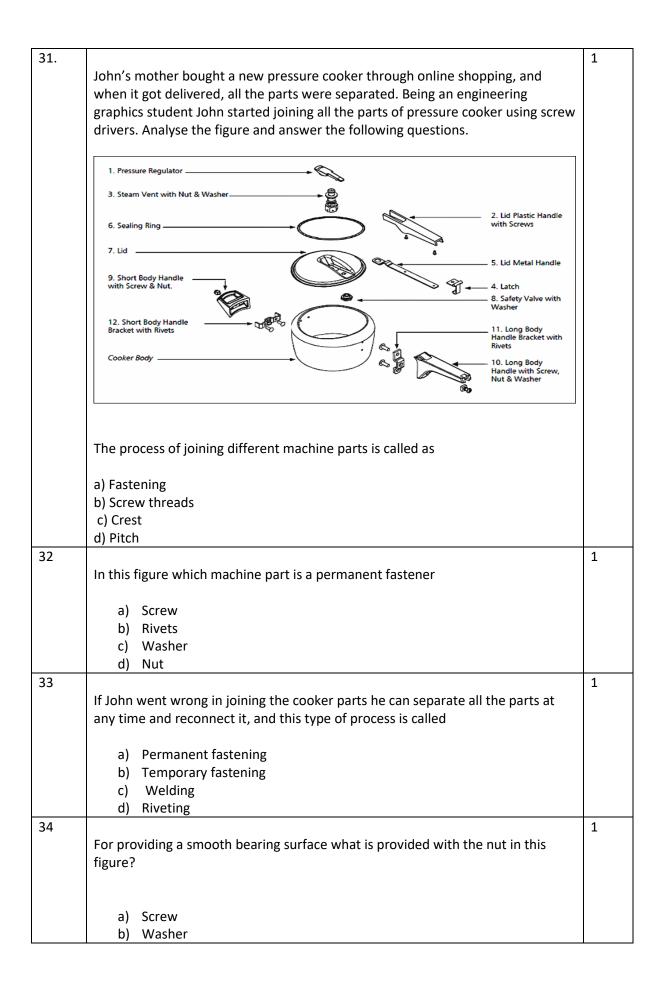
c) A is true but R is false.

d) A is false and R is also false

24	A: Visible edges are represented with thick continuous lines. R: For drawing visible edges 2H pencils are used.	1
25	A: Mechanisms of machine tools, valves, spindles, vice screws etc. are generally provided with square threads. R: Knuckle thread is a modified form of square thread	1
26	A: A bolt consists of a cylindrical body with one end threaded and the other end converted into a head. R: Bolt has external threads	1
27	A: The machine parts which are used to connect two pieces together are called as fasteners. R: Welding is an example for temporary fastening.	1
28	A: The isometric scale is used to measure the foreshortened length of dimensions of any object to draw the isometric projection. R: Isometric length is measured at an angle of 30 degree	1
29	A: A square nut is also one of the main forms of nuts. R: Square nut is a square prism provided with a threaded hole.	1
30	A: Chamfering on a nut is the process of removing sharp corners by rounding off the corners. R: The angle of chamfer is usually 30 degree with the base of nut.	1

SECTION C

ANSWER THE FOLLOWING QUESTIONS AFTER READING THE GIVEN PASSAGE:



	c) Rivet	
	d) Lid	
35		1
	Nuts will be having which type of threads?	
	a) Internal threads	
	b) External threads	
	c) Taper threads	
	d) Parallel threads	

ANSWER KEY

1	2	3	4	5
d	a	с	a	c
6	7	8	9	10
b	b	d	b	b
11	12	13	14	15
a	a	b	b	c
16	17	18	19	20
с	С	с	b	b
21	22	23	24	25
b	а	a	c	b
26	27	28	29	30
b	c	b	a	b
31	32	33	34	35
a	b	b	b	a