

INDIAN SCHOOL AL WADI AL KABIR

Class: XII	Department: SCIENCE	
MARKS: 35	SAMPLE PAPER - 2 <u>ENGINEERING GRAPHICS (046)</u>	DURATION :90 mins

<u>SECTION – A</u>

MULTIPLE CHOICE QUESTIONS

S.NO	QUESTIONS	
		MARKS ALLOTED
1.	thread is also called as unified thread. a. Square thread b. BSW thread c. Metric thread d. Knuckle thread	1
2.	Isometric, diametric, trimetric projections are classifications of which type of projections? a. Perspective b. Axonometric c. Orthographic d. Oblique	1
3.	Which type of projection needs a single scale to measure along each of the three axes?a. Orthographic projectionb. Isometric projectionc. Oblique projectiond. Perspective projection	1
4.	Screw threads are widely used forfrom one machine parts to another. a. Power transmission b. Transmitting load c. Transmitting light d. Transmitting wind	1
5.	is used to measure the foreshortened length of dimensions of any object to draw the isometric projection.	1

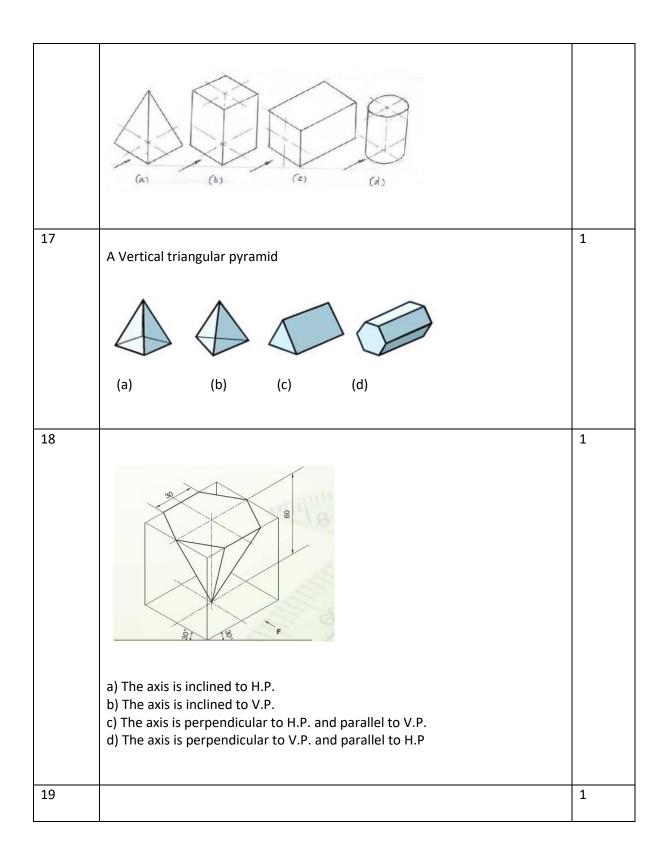
	a. True scale	
	b Vernier scale	
	c. Isometric scale	
	d. T scale	
6.	The figure with true scale as per specified condition with respect to	1
0.	VP and HP as per the rules of orthographic projection (two-	1
	dimensional figure) is called as	
	a. Helping figure	
	b. Isometric view	
	c. Diametric figure	
	d. Trimetric figure	
7.		1
	The thread which is formed on the surface of cylinder is called as?	_
	a. Parallel thread	
	b. Taper thread	
	c. Internal thread	
	d. Square thread	
	- ~ ~ · · · · · · · · · · · · · · · · ·	
8.	The angle difference between true length and isometric length is	1
	a. 30 degree	
	b. 45 degree	
	c. 15 degree	
	d. 90 degree	
9.		1
	The solids with two bases and rectangular faces are called as	
	a. Prisms	
	b Pyramids	
	c. Triangles	
	d. Circles	
10.	Name the thread which is used in railway carriage coupling screws	1
	and on the neck of glass bottles?	-
	a. BSW thread	
	b. Metric thread internal	
	c. Metric thread external	
	d. Knuckle thread	
11.		1
	Mechanisms of machine tools, valves, spindles, vice screws etc are	
	generally provided withthreads.	
	Sererary provided with anound.	
	a. Square thread	
	b. Knuckle thread	
	c. BSW thread	
	d. Metric thread	

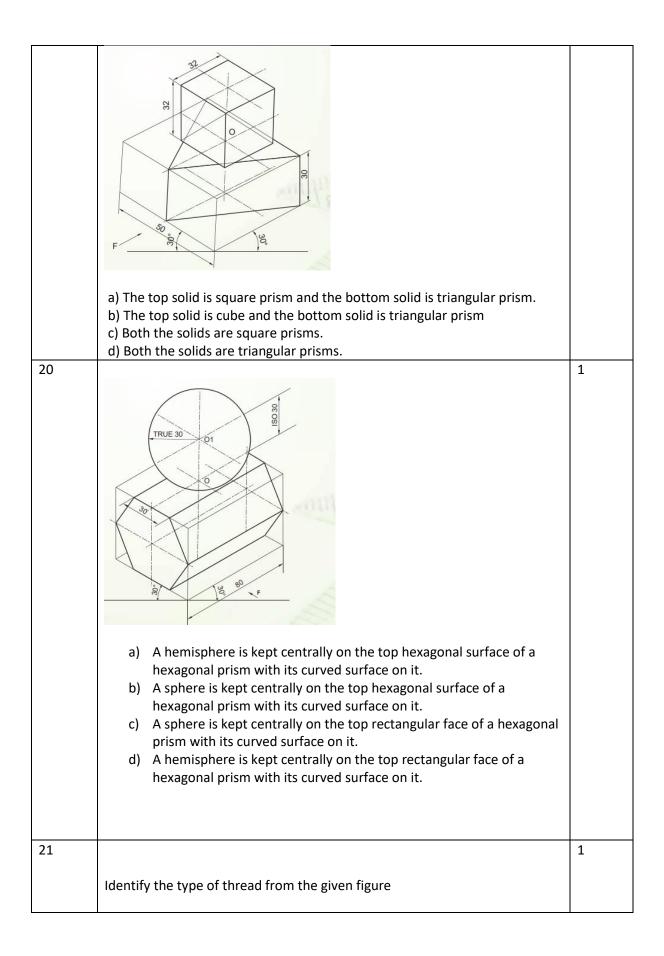
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12.	Formula for calculating the minor diameter 'd' in metric thread internal is? a. d = 0.54P b. d = 0.61P c. d= 0.64P d. d = 0.86P	1
13.	The angle between the flanks of BSW thread is a. 45 degree b. 60 degree c. 30 degree d. 55 degree	1
14.	 is the distance between the corresponding points on the adjacent threads, measured parallel to the axis. a. Pitch b. Lead c. Crest d. Root 	1
15.	In which type of threads, the crests are flat and roots are round?	1
	a. Metric thread externalb. Metric thread internalc. BSW threadd. Square thread	

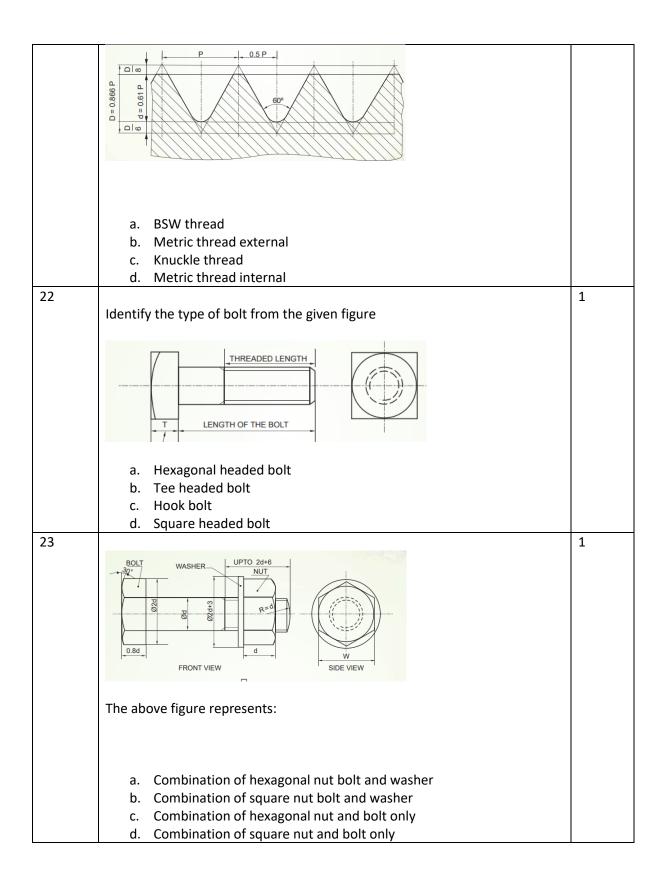
<u>SECTION – B</u>

DIAGRAM BASED QUESTIONS

1







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.

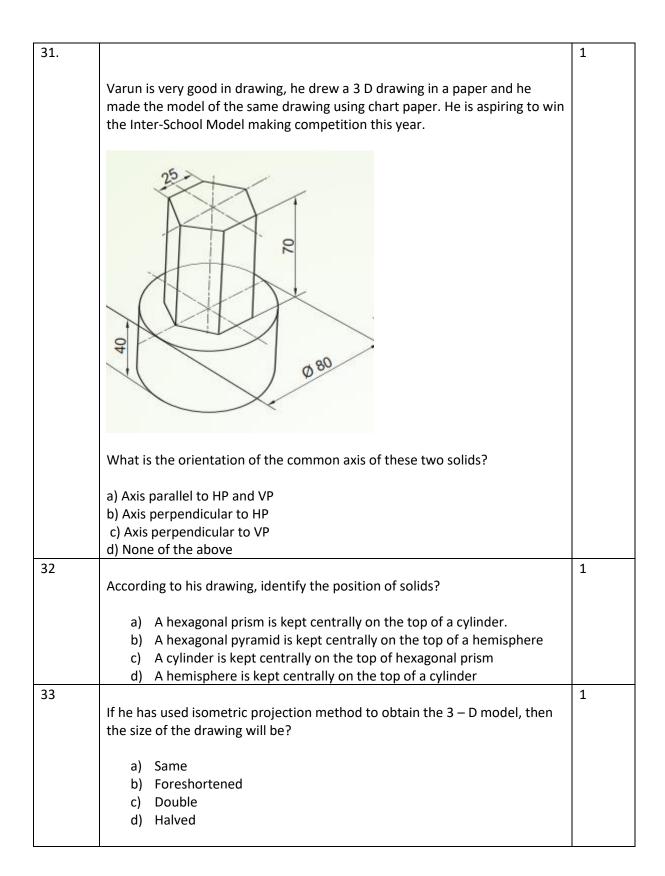
c) A is true but R is false.

d) A is false and R is also false

24	A: All types of V threads have inclined flanks making an angle between them. R: square thread is an example for V threads	1
25	A: Mechanisms of machine tools, valves, spindles, vice screws etc. are generally provided with square threads. R: Square threads are used in the neck of glass bottles.	1
26	A: A nut consists of a cylindrical body with one end threaded and the other end converted into a head. R: Nut 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 permanent fastening.	1
28	A: The isometric scale is used to measure the true length of dimensions of any object to draw the isometric projection. R: Isometric length is measured at an angle of 45 degree in isometric scale.	1
29	A: The surface connecting crest and root is called as flank. R: The angle between the flanks of a Metric thread is 55 degree.	1
30	A: Chamfering on a nut is the process of removing sharp corners by rounding off the corners. R: Chamfering is done on a nut to ensure the safety of the user.	1

SECTION C

ANSWER THE FOLLOWING QUESTIONS AFTER READING THE GIVEN PASSAGE:



34	If he has used isometric projection method, then the scale used for drawing:	1
	a) Vernier scale	
	b) True scale	
	c) Isometric scale	
	d) T scale	
35	If he has used true scale to obtain the 3 D figure, then it is called as:	1
	a) Isometric projection	
	b) Orthographic projection	
	c) Isometric view	
	d) Perspective view	

ANSWER KEY

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