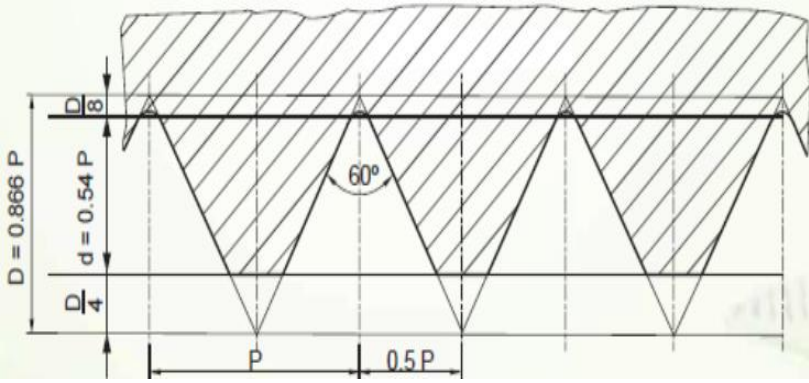




INDIAN SCHOOL AL WADI AL KABIR
DEPARTMENT OF SCIENCE 2021 - 22
CLASS 12- UNIT TEST 1 –ENGINEERING GRAPHICS - 2021
[QUESTIONPAPER & ANSWER KEY]

Class: XII	Department: SCIENCE	Date: 30/05/2021
MARKS: 30	UNIT TEST 1 – QP + MS <u>ENGINEERING GRAPHICS (046)</u>	DURATION :1 HOUR
S.NO	QUESTIONS	MARKS ALLOTTED
1.	The projection that extensively used in mechanical engineering is --- -- a. Oblique projection b. Axonometric projection c. Perspective projection d. Orthographic projection	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 projection b. Isometric projection c. Oblique projection d. Perspective projection	1
4.	In isometric projection all the three principal axes appear to be inclined to each other at an angle of ----- a. 120 degree b. 30 degree c. 90 degree d. 45 degree	1

5.	----- is used to measure the foreshortened length of dimensions of any object to draw the isometric projection. a. True scale b Vernier scale c. Isometric scale d. T scale	1
6.	The figure with true scale as per specified condition with respect to VP and HP as per the rules of orthographic projection (two-dimensional figure) is called as ----- a. Helping figure b. Isometric view c. Diametric figure d. Trimetric figure	1
7.	The true length is measured in isometric scale with an angle of ----- a. 30 degree b 45 degree c. 90 degree d. 120 degree	1
8.	The angle difference between true length and isometric length is ---- ---- a. 30 degree b. 45 degree c. 15 degree d. 90 degree	1
9.	The solids with two bases and rectangular faces are called as ----- a. Prisms b Pyramids c. Triangles d. Circles	1
10.	The faces of the pyramid will meet at a point, and that point is called as ----- a. Apex of pyramid b. Side of pyramid c. Face of pyramid d. Base of pyramid	1
11.	The truncated lower portion of the solid is called as ----- a. Prism b. Pyramid c. Frustum d. Cylinder	1
12.	How many helping figures are required to draw combination of solids? a. 2	1

	b. 4 c.3 d.1	
13.	Which solid is having only one point of contact with the plane of rest? a. Sphere b. Hemisphere c. Cone d. Cylinder	1
14.	Bolts and nuts are examples of which type of fastener? a. Permanent fastener b. Temporary fastener c. Unthreaded fastener d. None of the above	1
15.	Identify and name the thread represented in the given below figure?  a. BSW thread b. Knuckle thread c. Metric thread internal d. Metric thread external	1
16.	Screw threads are widely used for -----from one machine parts to another. a. Power transmission b. Transmitting load c. Transmitting light d. Transmitting wind	1
17.	The thread which is formed on the surface of cone is called as? a. Parallel thread b. Taper thread c. Internal thread d. External thread	1
18.	The surface connecting crest and root is called as ----- a. Root	1

	<ul style="list-style-type: none"> b. Flank c. Crest d. Lead 	
19.	<p>Name the thread which is used in railway carriage coupling screws and on the neck of glass bottles?</p> <ul style="list-style-type: none"> a. BSW thread b. Metric thread internal c. Metric thread external d. Knuckle thread 	1
20.	<p>Mechanisms of machine tools, valves, spindles, vice screws etc are generally provided with -----threads.</p> <ul style="list-style-type: none"> a. Square thread b. Knuckle thread c. BSW thread d. Metric thread 	1
21.	<p>A square thread of nominal diameter of 40 mm and pitch of 4mm is designated as -----</p> <ul style="list-style-type: none"> a. SQ 4 x 40 b. SQ 40 x 4 c. SQ 40 d. SQ 4 	1
22.	<p>Formula for calculating the minor diameter 'd' in metric thread internal is?</p> <ul style="list-style-type: none"> a. $d = 0.54P$ b. $d = 0.61P$ c. $d = 0.64P$ d. $d = 0.86P$ 	1
23.	<p>The angle between the flanks of BSW thread is -----</p> <ul style="list-style-type: none"> a. 45 degree b. 60 degree c. 30 degree d. 55 degree 	1
24.	<p>-----thread is also called as unified thread.</p> <ul style="list-style-type: none"> a. Square thread b. BSW thread c. Metric thread d. Knuckle thread 	1
25.	<p>Formula for calculating the major diameter 'D' in metric thread external is?</p>	1

	<ul style="list-style-type: none"> a. $D = 0.86P$ b. $D = 0.96P$ c. $D = 0.64P$ d. $D = 0.61P$ 	
26.	<p>In knuckle thread the tangential semicircles should be drawn with a radius of -----</p> <ul style="list-style-type: none"> a. $R = 0.5P$ b. $R = 0.25P$ c. $R = 0.15P$ d. $R = 0.45P$ 	1
27.	<p>In which type of threads, the crests are flat and roots are round?</p> <ul style="list-style-type: none"> a. Metric thread external b. Metric thread internal c. BSW thread d. Square thread 	1
28.	<p>In which type of thread, the clearance space is equally provided as $D/6$ on both sides.</p> <ul style="list-style-type: none"> a. Metric thread external b. BSW thread c. Metric thread internal d. Knuckle thread 	1
29.	<p>----- is the distance between the corresponding points on the adjacent threads, measured parallel to the axis.</p> <ul style="list-style-type: none"> a. Pitch b. Lead c. Crest d. Root 	1
30.	<p>The isometric projection of a sphere will be-----</p> <ul style="list-style-type: none"> a. Circle b. Sphere c. Ellipse d. Parabola 	1

ANSWER KEY

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