PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Aug-2017) for Recruitment of Lecturer Mechanical Engineering in the Department of Technical Education & Industrial Training, Govt. of Punjab.

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Candidate's Name	1 "	Question Booklet Set
Father's Name	https://recru	itmentindia.in/
Date of Birth DD MM	YYYY	Category Code* ('as given in the admit card)
OMR Response Sheet No		
Roll No Candidate's Signature (Please sig	gn in the box)	Booklet Series No
	INSTRU	ICTIONS
 The candidate shall NOT open this booklet is on by the Invigitation Staff. However, in candidate can read these instruction subsequently fill the appropriate column CAPITAL letters. The candidate may all columns (other than the polymors related to the questions) of the Optical Mark Read sheet, supplied separately. 	the meantime, the ns carefully and is given above in so fill the relevant marking responses	9. The candidates shall ensure that the responses are marked cornect manner and any adverse impact due to wrong marking responses would be the responsibility of the respective candidat. The following are some of the examples of wrong marking responses on the OMR response sheet.
Use only blue or black ball point pen to fill to on this page. Use of fountain pen may le may make the information given by the cand The candidate shall be hable for any as information given above is wrong or legitle.	ave smudges which idate here illegible.	10. The candidates, when allowed to open the question pap booklet, must check the booklet to portifirm that the booklet has complete number of pages, the pages printed correct and there are no blank pages, in case there is any such err in the question paper booklet then the candidate shou immediately bring this fact to the notice of the invigilation. Staff and obtain a booklet of the same series as given earlier.
Before attempting the paper, the candid columns given above on this page and signate. Each candidate is required to attempt 10 minutes, except for orthogaedically candidates, who would be given 40 extra correct responses on the OMR sheet which separately to the candidates.	or at the appropriate Or questions in 120 Avisually impared minutes, by marking	The serial number of the new booklet should be entered in the relevant column of the CMR. The Invigitation Staff must main necessary conscions in their record regarding the change in the serial no, or question booklet.
Separation to the Carlobases. The candidate must write the following on (a)Serial number of OMR sheet supplimarking the responses to the questions. (b)Serial number of the question booklet. (c) Series of the question booklet. Failure to cancellation of candidature or any oth Commission may deem fit.	ed to him/her for to do so may lead	The question paper booklet has 14 pages. Each question shall carry three marks.
The candidate should darken the appropri question by completely darkening the apaccording to his/her chalce of response Le manner shown in the example below. a b c	propriate circle/oval	 There are four options for each question and the candida has to mark the MOST APPROPRIATE answer on the OM response sheet using blue or black ball point pen.
Partly darkening the circle/oval on the OMF using other symbols such as tick mark or or in evaluation of the response as the OMF	oss would not result	 There is no negative marking for wrong answers or questions not attempted by the candidate.

interpret the answers by reading the darkened responses in the manner explained in preceding paragraph. Darkening more than one circle/oval as response to a question shall also be

considered as wrong answer.

2.	Sabarma	ti Ashram, set up by Mahatma	a Gandhi is located at which of the following places?
	a)	Ahemdabad	
	b)	Porbandar	
	c)	Gandhinagar	
	d)	Dandi	
3.	three tim	es, Australia defeated West	s defeated Newzealand four times, India defeated Newzealand Indies three times, West Indies defeated India only once and
			country lost most of the times?
		India	
		West Indies	
	70	Newzealand	
	d)	Australia	1 Jan 19
4.	In which	of the following districts, the	Fatch Burj - Chappar Chiri Memorial located?
		SAS Nagar	
		Rupnagar	
		Fatchgarh Sahib	ARR 127
		Amritsar	<i>F</i> il→
	-		All the second
5.			is related to NODB in the same way as TEAR is related to:
		AERT	
	4050	ATRE	
	100000	ARET	
	, q)	REAT	
	1	- /E L	
6.			n named after which of the following personalities?
	m 150/5	A.P.J. Kalam	
	100	C.V. Raman	
		Atal Bihari Vajpyce	
	-a)	Meghnad Saha	
7.	Find the	incorrect match among the fo	llowing:
		Jeff Bezos	Microsoft
	b)	Kiran Mazumdar Shaw	Bicon
	c)	Indra Nooyi	Pepsi Co.
		Sundar Pichai	Google
8.	In a certa	in code BOARD is written a	s 53169 and NEAR is written as 2416. How is NODE written
	in that co		7 2010) and 11210 is written as 2110. How is 11022 written
		2894	
		2934	
		2694	
	d)	None of the above	
			A-1
			2005

Who among the following personalities is also known by the name of Gurudev?

a) Dr. S. Radhakrishnan
 b) Shyma Prasad Mukherjee
 c) Rabindra Nath Tagore
 d) Bankim Chandra Chatterjee

1.

9.	12	33	96	?	852	2553
		285				
		288				
		250				
	-	384				
10.	Who ame	ong the	followin	g is giv	en 'Best	Actor Award' in the recent 64th National Film Awards?
	a)	Aksha	y Kuma	г		
		Aamir				
			Kapoo			
	d)	Nawa	zudin Si	ddiqui		
11.	Who ame	ong the	followir	g is Ca	ptain of	Indian Women Cricket Team?
			inpreet l	Caur		
		Mithal				
		Ekta E				
	d)	Jhulan	Goswa	mi		
12.					airman c	of Niti Aayog?
			dra Mod			
			ram Raj		きょう	
			Panaga	ariya		
		Arun J				a .
13.	The insp	iration o	of "Libe	rty, Equ	tality and	Fratemity" was derived from:
	a)	Frenc	h Revolu	tion		
	b),	Amer	ican Rev	olution		
	cl		an Revo			
	. 31					
	14)	Italiar	Revolu	tion	6	
14.	Which o	ne of th	e follow	ing des	cribes In	dia as a secular state?
	-	Funda	mental	Rights	0	
	100			man of the com-	f State F	olicy
	c)				titution	
	d)	-	Schedule			
15.	Why is the	he sky b	olue mos	t of the	time?	
	a)					re than other colours as it has shorter
			ength			
	b)			scatte	red mo	re than other colours as it has longer
			ength			111 April 101 Z
	c)	Red li	ght is so	attered	more tha	an other colours as it has longer wavelength
	d)	Red li	ght is so	attered	more tha	an other colours as it has longer wavelength

16.	Which	of the following is not a fundamental right?
	a)	Right to Life
	b)	Right to property
	c)	Right to education
	d)	Right to equality
17.	Who an	nong the following is not appointed by the President of India?
	a)	Governor
	b)	Chief Justice of Supreme Court
	c)	Chief Justice of High Court
	d)	Vice President of India
18.	Who is	the Chairperson of the Lok Sabha?
	a)	President
	b)	Prime Minister
	c)	Speaker
	d)	Minister of Parliamentary Affairs
19.	Radiog	raphy is an imaging technique that uses:
	a)	Visible light
	b)	X rays
	c)	microwaves
	d)	Laser light
20.	Which	of the following statements is true with reference to sound waves?
	a) 🛚	Human ear is capable of detecting sound waves ranging between 20Hz
		and 20000 Hz
	b)rij	Sound waves in air are transverse waves
	c)	Sound generally travels faster in gases and fiquids than in solids
	- d	Sound can travel through vacuum
21.	Which	of the following statements is true?
	a)	Indus Valley Civilization was a Bronze Age Civilization.
	b)	Indus Valley Civilization was not based on urban planning.
	c)	Indus Valley Civilization was an Iron Age Civilization
	d)	Indus Valley Civilization had no contact with the outside world
22.	The dai	ly range of temperature is greater in:
	a)	Coastal areas
	b)	Small islands
	c)	Interior regions
	d)	High mountain summits

23.	Millenn	ium Development Goals have been set up for:
	a)	All Countries
	b)	Developed Countries
	c)	Developing Countries
	d)	OECD Countries
24.	"One co	ountry, one tax" describes:
	a)	Income tax
	b)	GST
	c)	Sales tax https://recruitmentindia.in/
	d)	Corporate tax
25.	Exports	from India will receive a boost when:
	a)	The domestic currency appreciates
	b)	The domestic currency depreciates
	c)	The domestic currency remains unchanged
	d)	The US dollars depreciates
26.	Which i Mohenj	is the best known structure among the ancient ruins of the Indus Valley civilization in odaro?
	a)	Temple
	b)	Granary
	c)	Great Bath
	d)	Palace
	550	
27.	700000000000000000000000000000000000000	afta was an ancient
	a)	Priest
	р) пій	Astronomer & Mathematician
	c)	Warrior
	- d)	Ruler
28.	Which	district of Punjab has the largest population according to the Census of India 2011?
	a)	Jalandhar
	b)	Amritsar
	c)	Ludhiana
	d)	Ferozepur
29.	Humidit	y in the air is measured by:
	a)	Hydrometer
	b)	Hygrometer
	c)	Opisometer
	d)	Barometer

- 30. Tropic of Cancer does not pass through which of the following Indian states?
 - a) Guiarat
 - b) West Bengal
 - c) Uttar Pradesh
 - d) Mizoram
- Assertion (A): In constant pressure type gas turbines, large quantity of air is used, in excess of its combustion requirements.

Reason (R): Excess air is used to compensate for inevitable air-loss due to leakage in the system.

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true but (R) is NOT the correct explanation of a
- c) (A) is true but (R) is false
- d) (A) is false but (R) is true
- 32. Which of the following is NOT a method for the design of Air-conditioning system?
 - a) Velocity reduction method
 - b) Equal friction method
 - c) Equal pressure method
 - d) Static regain method
- 33. Two identical pipes of length 'L', diameter 'd' and friction factor 'f' are connected in parallel between two points. For the same total volume flow rate with pipe of same diameter 'd' and same friction factor 'f', the single length of the pipe for a constant pressure drop will be



34. A solid shaft and a hollow shaft of equal length transmit equal torques and develop equal maximum stress then they will have equal

- a) polar moment of area
- b) polar section modulus
- c) cross sectional area
- d) angle of twist

35. In a planar kinematic chain I links are connected through p pairs. The relationship between I and p is given by

- a) l = p 1
- b) 1 = 2p -2
- c) l = 2p 3
- d) 1 = 2p -4

36. In simple harmonic motion, the acceleration is proportional to:

- a) time period
- b) displacement
- c) velocity
- d) momentum

37. Which	of the following type of gears is recommended for a speed reduction of 50: 1
a)	Spur
b)	Helical
c)	Worm
d)	Bevel
	ted life of a ball bearing is:
	proportional to the load
	inversely proportional to the load
	inversely proportional to the square of the load
d)	inversely proportional to the cube of the load
	mm diameter basketball of 2 mm wall thickness has been inflated to a pressure of 100 kPa. The
	of hoop stress developed is equal to
a)	10 MPa
b)	5 MPa
c)	3.75 MPa
d)	2.75 MPa
40. The los	ad carrying capacity of a hydro-dynamically lubricated journal bearing depends on
	Speed only
	Viscosity only
	Radial Clearance only
	Speed, Radial Clearance and Viscosity
	o gears to mesh
	The diametral pitch of both gears must be the same
b)	Tooth thickness of both gears must be same
c)	Number of teeth on both goars must be same
d)	Whole depth of both gears must be same
45 114 1	
	one of the following steels has the highest carbon content?
	Mild speel
	Hypo - cutectic steel
	Hyper-cutectic steel
	大学的数型 (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	on of sulphur to steel increases its
	Wear resistance Corrosion resistance
	Hardness Multiple Military
d)	Machinability
	rbon content in wrought iron is
	less than 0.01 percent
	between 0.01 to 1.0 percent
	between 1.0 and 3.0 percent
d)	between 3.0 and 5.0 percent

45.		ncreasing the pressure ratio, the volumetric efficiency of a reciprocating compressor
		remains same
		increases
		decreases
	d)	can not be predicted
46.		ion (A): Pressurised water reactor (PWR) nuclear power plant use superheated steam. (R): An increase in superheat at constant pressure increases the cycle efficiency.
		Both (A) and (R) are true and (R) is the correct explanation of (A)
	b)	Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
	c)	(A) is true but (R) is false
	d)	(A) is false but (R) is true
47.	Which	of the following forces does NOT act on a fluid in rest?
		Gravity force
		Hydrostatic force
		Surface tension force
	d)	Viscous force
40	During	choking of nozzle
+0.	_	the mass flow rate through nozzle is maximum
	-	the mass flow rate through nozzle is minimum
		the mass flow rate through the nozzle is zero
		the mass flow rate through the nozzle is a function of pressure drop.
0223		
49.		am, the point of contraflexure corresponds to a section with
		shear force is zero
		shear force is maximum
		bending moment is zero bending moment is maximum
		2-45 A-45 A-45 A-45 A-45 A-45 A-45 A-45 A
50.		cus of a point on a thread unwound from a cylinder will be
		an involute
	3000	a helix
		a straight line
	d)	a cycloid
51.	Which	type of key is preferred for mounting shifting gears in a gear box?
	a)	Saddle key
		Flat key
	c)	Taper key
	d)	Splines
52.	In the	design of spur gears, the Barth's equation is used to express
5.50		Velocity Factor
		Geometry Factor
	c)	Size Factor
https://	recruit	tmentindia.in/ Surface Condition Factor
53	With	eference to iron - carbon diagram, pearlite phase is made up of alternate layers of
winds.		Ferrite and martensite
		Ferrite and comentite

- c) Martensite and cementite
- d) Cementite and bainite

54.	Which o	one of the following is a copper free alloy?
	a)	German silver
	b)	Muntz metal
	c)	White metal
	d)	Gun metal
55.	The mo	olding process employed for thermoplastic materials is
	a)	Injection and extrusion method
	b)	Compression and transfer molding method
	c)	Die casting method
	d)	Continuous casting method
56.	Rat tail	defect in a casting is due to
	a)	mold expansion
	b)	metal expansion
	c)	metal mold expansion
	d)	none of the above
57.	Depth	of cut in turning operation is the total reduction in the
	a)	diameter of the work
	b)	radius of the work
	c)	radius of the work in one pass of the tool
	d)	diameter of the work in one pass of the tool
58.	Shell n	nolding process requires pattern made of
	a)	wood
	b)	sand
	c)	plastic
	d)	metal
59.	The fol	lowing operations are involved in producing powder metallurgy parts.
256	L.	Sintering
	M.	Pressing
	N.	Atomising
	0.	Blending - O
	The co	rrect sequence of operations is:
	a)	M, N, L, O
	b)	M, N, O, L
	c)	N, O, L, M
	d)	N, O, M, L
60.	Helical	gears can be cut on
	a)	universal milling machine
		horizontal milling machine
	c) ·	vertical milling machine
	d)	planetary milling machine
61.	Which	of the following rule is used in designing of riser of metal casting mould?
	a)	Chvorinov's rule
	b)	Lever rule

c) Phase rule d) Bernoulli's rule

- 62. By higher octane number of SI fuel, it is meant that the fuel has

 a) longer ignition delay
 b) higher flash point
 c) lower viscosity
 d) higher heating value
- 63. Which of the following heat exchanger gives parallel straight-line pattern of temperature distribution for both cold and hot fluids?
 - a) Parallel-flow with unequal heat capacities
 - b) Parallel-flow with equal heat capacities
 - c) Counter flow with unequal heat capacities
 - d) Counter flow with equal heat capacities
- 64. Assertion (A): Heat transfer at high temperature is dominated by radiation rather than convection.

Reason (R): Radiation depends on fourth power of temperature while convection depends on unit power relationship.

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- c) (A) is true but (R) is false
- d) (A) is false but (R) is true
- 65. The choking in compressors implies
 - a) no flow of air
 - b) fixed mass flow rate regardless of pressure ratio
 - c) reducing mass flow rate regardless of pressure ratio
 - d) increased inclination of chord with air stream
- 66. Irrotational flow occurs when
 - a) flow takes place on a duct of uniform cross-section at constant mass flow rate
 - b) stream lines are curved
 - c) there is no net rotation of fluid element about its mass centre
 - d) fluid element does not undergo any change in size or shape
- 67. Kennedy's theorem states that if three bodies are undergoing plane motion relative to each other, their instantaneous centers will lie on a
 - a) point
 - b) straight line
 - e) circle
 - d) triangle
- 68. In a vibrating system with single degree of freedom with viscous damping, the critical damping is a function of
 - a) damping coefficient and mass
 - b) damping coefficient and stiffness
 - damping coefficient, mass and stiffness
 - d) mass and stiffness
- 69. The taper on a cotter varies from
 - a) 1:6 to 1:10
 - b) 1: 20 to 1: 24
 - c) 1:30 to 1:34
 - d) 1: 36 to 1: 40

70.	Two mati		5 teeth and 75 teeth. The pinion rotates at 1260 rpm. What is the rotational
		120 rpm	
		340 rpm	
	2000 H	1060 rpm	
	d) 1	1260 rpm	
71.			n-type semiconductor?
		hosphorus in Silicon	
	7.0	toron in Silicon	
		duminum in Silicon	
	d) Ir	ndium in Silicon	
72.	units of fi		xed cost and 5 units of variable cost per piece, while process II requires 70 f variable cost per piece. For a company producing 10 pieces per day
) process II should b	
		either of the proces	
	d) a combination of p	rocess I and process II be chosen
73.	If the den	nand of an item is don	bled and the ordering cost halved, the economic order quantity
		emains unchanged	
		ncreases by a factor of	V2
		doubled	
		halved	
	d) is	Haived	
74.	Which of	the following are the	inversions of a double slider crank chain?
	1. V	Vhitworth quick return	motion
	2. S	cotch Yoke	
	3. C	Oldham's Coupling	
		totary Engine	
	Select the	correct answer using	the codes given below:
	Codes:	1 266	
	a	1 and 2	
	b		
	c	To 10 10 10 10 10 10 10 10 10 10 10 10 10	
	d		
) 2,5 and 4	
75.	Principal	stresses at a point in a	plane stressed element are :
			ess on the plane inclined at 45° to x-axis will be
	a	1001	
	b		
	C		
	d) 1000 /m ²	https://recruitmentindia.in/

76.		nitially subjected to a bending moment and then was subjected to torsion. If the magnitude
		oment is found to be the same as that of the torque, then the ratio of maximum bending
		r stress would be
	a)	0.25
	b)	0.50
	c)	2.0
	d)	4.0
77.	The buckling	load will be maximum for a long column, if
	a)	one end of the column is clamped and the other end is free
	b)	both ends of the column are clamped
	c)	both ends of the column are hinged
	d)	one end of the column is hinged and the other end is free
78.	The S-N curv	e for steel becomes asymptotic nearly at
	a)	10 ³ cycles
	b)	10 ⁴ cycles
	c)	10 ⁶ cycles
	d)	10° cycles
70	The backlash	for spur gears depends upon
12.	a)	module
	b)	pitch line velocity
	c)	tooth profile
	d)	both (a) and (b)
	200	
80.	In design of p	ower screws, Acme threads are preferred over the square threads because Acme threads
	a)	offer better efficiency than square threads
	b)	have less wear and therefore more life
	c)	are easier to machine and permit use of a split nut
	q) M	require lower torque to raise the load
81.	In a machine	y, a shaft is supported on one end by a taper roller bearing. At the other end, one may use.
	a)5000	a ball bearing
	b)	another taper roller bearing
	c)	a self - aligning ball bearing
	d)	no other bearing
82.	The finishing	operation on a C40 steel component of length 120mm is done at 60 m/minute cutting speed.
		speed and feed are 440 rpm and 0.1 mm/rev, respectively while the over travel of the tool
		igth of the job is 2mm, then machining time for one pass in minutes is
	a)	1.77
	b)	2.17
	c)	2.77
	d)	3.77
83.	An optical gau	ige works on the principle of
	a)	Reflection of light rays
	b)	Polarization of light rays
	c)	Interferences of light rays
	d)	Dispersion of light rays

84. One reversible engine operates between 1600 K and T K and another reversible engine operates between T K and 400 K. If both engines have same heat input and output, then the temperature T must be equal to

- a) 1000 K
- b) 1200 K
- c) 1400 K
- d) 800 K

85. By higher octane number of SI fuel, it is meant that the fuel has

- a) longer ignition delay
- b) higher flash point
- c) lower viscosity
- d) higher heating value

86. Match List I and List II and select the correct answer using the codes given below the lists:

List I

List II

(Material properties) (Test to determine material properties)

A. Ductility

1. Impact test

B. Toughness

- Fatigue test
- C. Endurance limit
 D. Resistance to penetration
- Tension test
 Hardness test

Codes:



87. If the principal stresses corresponding to a two-dimensional state of stress are σ₁ and σ₂ and σ₁ is greater than σ₂ and both are tensile, then which one of the following would be the correct criterion for failure by yielding, according to the maximum shear stress criterion, σ_{VP} being the yield point stress?



d) $\sigma_1 = \pm 2\sigma_{yp}$

88. The centrifugal tension Tc for maximum power to be transmitted by the belt is given by

- a) $T_c = 3T$
- b) $T_c = 2T$
- c) $T_c = T/2$
- d) $T_c = T/3$

Where T = Maximum allowable belt tension

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89. The minimum number of teeth to avoid interference in a two wheel set of equal size, when addendum is one module, is given by

a)
$$\frac{2}{\sqrt{1+3\sin^2\phi}-1}$$

b)
$$2\sqrt{1+3\sin^2\phi} - 1$$

c)
$$2\sqrt{1+3\sin^2\phi+1}$$

d)
$$\frac{2}{\sqrt{1+3\sin^2\phi+1}}$$

- 90. When pure metals and some eutectic alloys solidify, the interface between the liquid and solid metals is a well defined smooth surface. As the solidification advances towards the center the grains become larger, the thickness of grains 'x' at time 't' is given by
 - a) K, Vt
 - b) Ki/vt
 - c) K, 1/2t
 - d) K₁/t

where K1 is a constant, which depends upon the metal poured and the mould material.

- A cutting tool is designated as 0°-10°-6°-6°-8°-75°-1mm. In this designation the side cutting edge angle of the tool is
 - a) 0°
 - b) 6°
 - c) 8°
 d) 75°
- A manufacturing company produces 200 pistons per shift of 8 hours. If the standard time per piece of piston is 2.4 minute the productivity would be
 - a) 33,33%
 - b) 66,66%
 - c) 100%
 - d) 125%
 - 93. Choose the incorrect statement. The Second Law of Thermodynamics indicates that
 - a) complete conversion of low grade energy into high grade energy is impossible
 - b) heat and work are not completely interchangeable
 - c) reversible and irreversible are two distinct processes
 - it is possible to transfer heat from low temperature to high temperature if heat extracted is exactly equal to work delivered.
 - 94. A device used to heat feed water by utilizing the heat in the exhaust flue gases before leaving through the chimney, is known as
 - a) superheater
 - b) economizer
 - c) reheater
 - d) none of the above

	he specific	eed of a turbine is expressed as	
		$N\sqrt{P}$	
	a)	H	
		$N\sqrt{P}$	
	b)	$\frac{N\sqrt{P}}{H^2}$	
		N ₀ P	
	c)	$\frac{N\sqrt{P}}{H^{3/4}}$	
		H	
	d)	$\frac{N\sqrt{P}}{H^{3/4}}$	
		H 5/4	
96. If	a material	d a modulus of elasticity of 2.1 X 10 ⁶ N/m ² and a modulus of rigidity of 0	8 x 106 N/m
		imate value of the Poisson's ratio of the material would be	
	a)	0.26	
	b)	0.31	
	c)	0.47	
	200		
07. T	d)	0.47 0.5	
97. T	c) d) he surface o	0.47 0.5 the gear tooth below the pitch circle is called the	
97. T	c) d) he surface o a)	0.47 0.5 the gear tooth below the pitch circle is called the flank	
97. T	c) d) The surface of a) b)	0.47 0.5 the gear tooth below the pitch circle is called the flank face	
97. T	c) d) he surface o a)	0.47 0.5 the gear tooth below the pitch circle is called the flank	
	c) d) the surface of a) b) c) d)	0.47 0.5 the gear tooth below the pitch circle is called the flank face undercut bottom land	
	c) d) the surface of a) b) c) d)	0.47 0.5 the gear tooth below the pitch circle is called the flank face undercut	
	c) d) the surface of a) b) c) d) the surface of an	0.47 0.5 the gear tooth below the pitch circle is called the flank face undercut bottom land form of a rectangular block resting on a plane table is	
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	c) d) the surface of a) b) c) d) the surface of an	0.47 0.5 the gear tooth below the pitch circle is called the flank face undercut bottom land form of a rectangular block resting on a plane table is	

99. The grinding wheels are produced by mixing the appropriate grain size of the abrasive with the required bond and pressed into the shape. The standard marking system of a specified grinding wheel is

51 A 36 L 5 V 23

For which characteristic of the grinding wheel the letter 'L' stands for

- a) type of bond
- b) type of grain
- type of grade
- d) manufacturer's reference

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- a) order size
- b) ordering cost
- c) sum of purchasing and ordering cost
- d) sum of ordering and holding cost
