Total No. of questions: 100

Time: 75 Minutes

Maximum: 100 Marks

## INSTRUCTIONS TO CANDIDATES

- The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A. B. C & D:
- The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the question booklet. This may be used for rough work,
- Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose
  the correct answer and darken the bubble corresponding to the question number using Blue or
  Rlack Ball-Point Pen in the OMR answer sheet.
- Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

## 139/2017

Maximum . 100 marks

Time: 1 hour and 15 minutes

1.	What is	the nume of the T	400 400 00		and to mind	6
	(A	the name of the Line of (  Mc Mohan Line	Control between Ir	ıdi	a and Pakistan?	
	(0		0	B)	Radcliffe Line	
	10	) Falk Line	(	D)	Siachin Line	
2.	Cite an	example for cold desert in	India.			
	(A	) Himachal Pradesh		B)	Gujarat	
	(C	) Haryana	91	0)	Rajastan	
3.	What w	as the name of the Ship	and L. Tr			
	(A)	as the name of the Ship us HMS Beagle			na for his voyage?	
	(C		(E		Savo Gabriel	
		THE STATE OF THE S	α		Savo Plow	
4.	Who des	cribed the 'Directive Princ	ciples' as the 'Nove	11	Features of the Indian Constitution'?	
	(A)	Thomas Tagada	(B	0	Jawaharlal Nehru	
	(C)	Sardar Vallabhai Patel	(D		Dr. B.R. Ambedkar	
5.	Whatie	h				
360	(A)	the name of the Indian Riv Sindu	ver which carries !	lar	go volume of water?	
	(C)	Brahmaputra	(B		Ganga 2005	
	(0)	Dranmaputra	(D	)	Yamuna	
6.	Who is co	onsidered as the 'Political	Father of the Pub			
	(A)	Kumaran Asan	(B)			
	(C)	Sree Narayana Guru	(D)		Dr. Palpu S. Shankar	
7.	The barre		(2)	(8)	S. Shankar	
		et of Mount Anamudi :				
	(A) (C)	2695 metres	(B)		2965 metres	
	(0)	2756 metres	(D)		2654 metres	
8.	Who was	the first President of Kera	la Sahitua A		0	
	(A)	Sardar K.B. Panicker	(B)			
	(C)	Sardar K. M.Panicker			Sardar K.N. Panicker	
			(D)	-	Kumaranasan	
9.	Which day	is celebrated as 'Coconut	Day'?			
		November 01	(B)	1	August 02	
	(C)	January 28	(D)		September 02	
A			3			

10. In which year Vakkom Abdul Khader Moulavi s	Newspaper 'Swadeshabhimani'?
Walter Walkom Abdul Khader Moulavi S	started his Newspaper
(A) 1904	(b) 1905
(C) 1906	(1) 1300
(C) 1300	a L. Jaron Avvaupan?
11. What was the name of the Newspaper started	by Sanodaran 13,744
11. What was the Markeran (A) Velakkaran	(D) Yachana
(C) Sangabhodam	(D) Tachans
12. Who was the author of 'Paalazhimadhanam'?	(B) Ayyankali
12. Who was the authority (A) Sree Narayana Guru	(B) Ayyamacı (D) Ezhuthachan
(C) Kunchan Nambyar	(D) Ezhano
18. Who wrote the work 'Jathikummi'?	(B) Chavara Achan
13. Who wrote the World (A) Kumaranasan	The Washington
(C) Poikayil Yohannan	(D) Pandit Karuppan
(6) 10,440	the Immaith?
14. Who was the first Malayalam novelist who	(B) S.K. Pottakkad
(A) ( SHIRAI AREA - T	
(C) M.T. Vasudevan Nair	(D) Vaisaia
(6) 2423	c _ ri-withamkoorian'?
15. Who authored the pamphlet Thiruvithamk	(R) G.P. Pillai
(A) T.K. Madhavan	(D) N. Raman Pillai
(C) P. Ranga Rao	(D) 11.1.
(9)=	Mar 1-1 19367
16. Who led the 'Pattini Jatha' from Kannur t	(B) K. Kelappan
(A) E.M.S. Namboothirippad	(D) C. Kesavan
A K Gopalan	
17. In which country in the world Green Reve	Lation started for the first time?
to which country in the world Green Rev	(P) India
17. In which country is	(D) China
(C) Pakistan	(2)
	1ancore"?
18. Who was known as the 'Jhansi Rani of T	(B) Arya Pallam
(A) Anna Chandi	(D) Akkamma Cheriyan
(C) A.V. Kuttimalu Amma	(2)
	THE RESERVE OF THE PARTY OF THE
19. Who is CEO of NITI AYOG?	(B) Rajiv Kumar
(A) Aravind Panagariya	(D) M. Ahaluwaliya
(C) Amitab Kant	
	4
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A

children i	n the country by 2020?		
(A)	Mission Indradhanush	(B)	Make India
(C)	Bal Swachata Mission	(D)	AYUSH Mission
Which of	the following is not a scalar qu	iantity?	
(A)	Energy	(B)	Kinematic Viscosity
(C)	Power	(D)	None of the above
Ratio of d	ynamic friction to static friction	on is :	
(A)	Always greater than 1	(B)	Always less than 1
(C)	Always constant	(D)	None of the above
		ular section is	to be doubled for the same width, its
(A)	2h	(B)	0.5h
(C)	1.26 h	(D)	1.414h
acquires the time t	a velocity of 3 m/e after having taken to travel this distance a	ng travelled a ore :	distance of 7.5 m, the acceleration and
			5 m/s², 0.6 s
(C)	6 m/s², 0.5 s	(D)	0.5 m/s², 6 s
If the spe			
(A)			
(B)			
		accelerations a	re zero
(D)	None of the above		
travelled	is given by the expression s =		
(A)	$2c, 4c^2t^2/r$	(B)	$4c \cdot e^2 t^2/r$
(C)	$c$ , $0.5 c^2 t^2/r$	(D)	$0.5c$ , $2c^2t^2/r$
If the line	ear momentum of a particle is	increased by 5	0%, its Kinetic energy will increase by :
		(B)	225%
(C)	2.25%	(D)	125%
1			
	(A) (C) Which of (A) (C) Ratio of d (A) (C) If the money height h	(C) Bal Swachata Mission  Which of the following is not a scalar question of the following is not a scalar question of the friends (A) Energy (C) Power  Ratio of dynamic friction to static friction (A) Always greater than 1 (C) Always constant  If the moment of inertia of a rectangle height h has to be increased to (A) 2h (C) 1.26 h  A particle starts from rest and moves a acquires a velocity of 3 m/s after having the time taken to travel this distance at (A) 0.6 m/s², 5 s (C) 6 m/s², 0.5 s  If the speed of a particle along a curved (A) Tangential acceleration is zero, (C) Both tangential and normal (D) None of the above  Starting from rest a particle moving a travelled is given by the expression s = accelerations of the particle are:  (A) 2c, 4c²t²/r  (C) c, 0.5 c²t²/r  If the linear momentum of a particle is (A) 50%	(A) Mission Indradhanush (B) (C) Bal Swachata Mission (D)  Which of the following is not a scalar quantity?  (A) Energy (B) (C) Power (D)  Ratio of dynamic friction to static friction is:  (A) Always greater than 1 (B) (C) Always constant (D)  If the moment of inertia of a rectangular section is height h has to be increased to (A) 2h (B) (C) 1.26 h (D)  A particle starts from rest and moves along a straight acquires a velocity of 3 m/s after having travelled a state time taken to travel this distance are: (A) 0.6 m/s², 5 s (B) (C) 6 m/s², 0.5 s (D)  If the speed of a particle along a curved path is constated and the speed of a particle along a curved path is constated as a constant and acceleration is zero, normal acceleration is zero, tangential acceleration is zero, tangential acceleration is a constant and normal accelerations of the above  Starting from rest a particle moving along a circular travelled is given by the expression s = ct² where c is accelerations of the particle are: (A) 2c, 4c²t²/r (B) (C) c, 0.5 c²t²/r (D)  If the linear momentum of a particle is increased by 5 (A) 50% (B)

20. What is the name of the mission which aims to achieve full immunisation coverage for all

t along two	ass the maximum number of unknown forces
28. In method of sections for analysis of plane true.	HATOS BEAM SEA
that can be found with a great	(B) 2
(A) 1	(D) 4
(C) 3	at the liquid
The depth of centre of pressure in a rectangula	ar lamina of height $h$ with one side in the liquid
29. The depth of centre of pressurface is at:	
(A) 2h/3	(B) h
(C) h/3	(D) h/2
	spring find the frequency of
30. If 44.5 N tension produces an elongation of	25 mm in a given spring, find the frequency of the end of the spring :
30. If 44.5 N tension produces an elongation of vibration of a 4.45 N weight suspended from	(B) 0.99 Hz
(A) 9.9 Hz	(D) 91.09 Hz
(C) 19.9 Hz	(D) Otto
to the significant content.	is:
31. The alloy in duralumin with largest content	
(A) Magnesium	(D) None of the above
(C) Copper	
32. The crystal structure of all the following ma	terial is FCC except :
32. The crystal structure of all the crystal	107
(C) Nickel	(D) Copper
33. Which of the following is a mechanical prop	(B) Thermal conductivity
(A) Modulus of elasticity	(5)
(C) Cohesive force	(D) Stiffness
34. Hardness is the resistance to:	(B) Deformation
(A) Bending	(D) Sliding
(C) Scratching	
that causes a liquid and sol	id phase of fixed proportions mix to yield a seco
35. The reaction that causes solid phase is:	
(A) Eutectic	(B) Eutectoid
(C) Peritectic	(D) Peritectoid
(0)	
36. The most desirable method of increasing	(B) Cold working
(A) Precipitation hardening	(B) Cold working (D) Grain refinement
(C) Solute addition	(D) Grain rememons
	6
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	0.00

01.	necrystal	disation rate increases with:		
	(A)	Increasing amount of cold work	(B)	Higher annealing temperature
	(C)	Decreasing initial grain size	(D)	All the above
38.	Bainite h	as:		
	(A)	Same morphology as austenite		
	(B)	A non-lamellar morphology of ferrit	e and c	ementite
	(C)	The coarsest morphology among all		
	(D)	None of the above		
39.	Free ener	gy decrease during recrystallization of	comes n	nainly from :
	(A)	Lower energy of the new crystal str		
	(B)	Excess point defects		
	(C)	Grain boundaries		
	(D)	Excess dislocations		
40.	The maxi	mum hardenability of any steel deper	nds on :	
	(A)	Presence of alloying elements	(B)	Grain size
	(C)	Carbon content	(D)	All the above
41.	When a c	ircular rod of diameter $d$ welded to a to a twisting moment $T$ , the shear s	rigid p	late by a circular fillet weld of size t is
		2.83 T/πtd <sup>2</sup>	(B)	4.24 T/πtd <sup>2</sup>
	(C)	5.66 T/ntd <sup>2</sup>	(D)	$1.414 \ T/\pi t d^2$
42.	Parallel fi	illet welded joints are designed for :		
	(A)	Tensile strength	(B)	Compressive strength
	(C)	Bending strength	(D)	Shear strength
43.	A bolt is s	specified by ita:		
	(A)	Nominal diameter and pitch	(B)	Major diameter and pitch
	(C)	Minor diameter and pitch	(D)	None of the above
44.	In a knuc	kle joint, the pin is subjected to:		My Targett 172
	(A)	Double shear	(B)	Double shear and bending
	(C)	Crushing and double shear	(D)	None of the above
45.	A beam is	said to be of uniform strength if -		is same throughout the beam.
	(A)	Bending moment	(B)	Shear stress
	(C)	Deflection	(D)	Bending stress
A		7		139/2017
				[P.T.O.]

10.

		a to a salaring diameter	er of a b	elic	eal compression spring are doubled,
6. I	f both the	nean coil diameter and wire diame	01.01.0		
1	he deflecti	on of the shring will be .	(B)		
	(A)	doubled	(D)	rec	duced to one fourth
	(C)	increased 4 times			a to store on the rim will
	The tensile	(hoop) stress in a flywheel rim du if the linear velocity is incre	e to the		trifugal force acting on the rim will
		Increased by 21%	(B)	in	creased by 12170
		Increased by 100%	(D)	In	acreased by 10%
	10.0		atiffnass		ill be:
48.	If a spring	is cut into three equal springs, the	d (B)	01	ome
	(A)	reduced to approximately one thin	W	100	npredictable
	(C)	increased to approximately 3 time	s (D)	····	nprenictable
	-	1 duetion gen	r is used		
49.		been reministra	(B)	link	Spur
	- T	Worm Bevel	(D)	I	Ierringbone
	(C)				: Joubled and diameter i
50	If the thi	ckness of a thin cylinder subjected	to inter	nal	pressure is doubled and diameter i
50.	reduced t	o hair, the stress will be		00 00	Reduced to one half
	(A)	Reduced to one fourth			Reduced to one eighth
		Remains constant	(D	)	Reduced to one eights
	****	the following is true?			
51.	-15	n u dulus is the ratio of sphe	rical str	ess	to volumetric strain
	(A)	Bulk modulus is infinity for a m	aterial of	0.5	5 Poisson ratio
		Bulk modulus is lilling 255			
	(C)	(A) and (B) None of the above			
52.	Decemb	e in bar at a depth of 10 m in oil of	relative (	den	sity 0.750 is:
32.	/A	) 7355.75	1.4	100	
	(0	2222	(I	D)	9.3575
		The same of the same of	ony flui	d ni	article is :
53	. In a ste	ady flow of fluid the acceleration of	any nor	B)	Variable
	(A	) Constant		D)	Zero under limiting condition
	((	C) Zero		1000	
5	1. The ve	locity of a horizontal jet through an rel of 4 m is 4 m/s. What will be the	orifice p	rov	rided at the bottom of a tank with wa when the level drops to 1 m?
	at a let	A) 1 m/s	- 10	(B)	2 m/s
		a Cara Tar		(D)	4 m/s
	(	C) 1.414 m/s			
			8		,

	In a free v	ortex motion, the tangential compo	ment of th	e water particle is proportional to
70	(A)	Distance from the centre $(R)$	(B)	$R^2$
	(C)	1/R	(D)	$R^3$
56.	Which of	the following statements is false?		
	(A)	Pitting due to cavitation occurs at	high pres	isure
	(B)	Specific speed of a turbine with hi		
	(C)	Centrifugal pump is started with with delivery valve fully open	delivery	valve fully closed and axial flow pump
	(D)	None of the above		
57.	The limit	ing pressure head at starting and	d end of ter.	the suction and delivery strokes of a
	(A)	2.6 m	(B)	10 m
	(C)	1.6 m	(D)	16 m
58.	Air vessel	s in a reciprocating pump :		
	(A)	Maintain uniform flow rate	(B)	Reduce friction head
	(C)	Both (A) and (B)	(D)	None of the above
59.	For a con	apletely submerged rectangular ve	ertical pla	te in a liquid, the ratio of distance of
		pressure from the liquid surface to		
	(A)	Always greater than 1	100	Less than 1
	(C)	Greater than or equal to 1	(D)	Less than or equal to 1
60.	The Darc	y friction factor is :		
	(A)	A constant		
	(B)	Not a constant		
	(C)	Sometimes known as Blasius fric	tion factor	
	(D)	(B) and (C)		
61.		(B) and (C) case in pressure the enthalpy of dr		
61.				
61.	With incr	ease in pressure the enthalpy of dr		
61.	With incr	ease in pressure the enthalpy of dr Increases		
61.	With incr (A) (B)	ease in pressure the enthalpy of dr Increases Decreases	y saturato	ed gas:
61.	With incr (A) (B) (C) (D)	ease in pressure the enthalpy of dr Increases Decreases Remains constant	y saturate	ed gas:
	With incr (A) (B) (C) (D)	ease in pressure the enthalpy of dr Increases Decreases Remains constant Increases up to the critical point	y saturate	decreases with increase in pressure. decreases
61.	With incr (A) (B) (C) (D)	ease in pressure the enthalpy of dr Increases Decreases Remains constant Increases up to the critical point eat of a liquid vapour mixture	y saturate	decreases with increase in pressure. decreases

122	erri .	f compression that would be consume	ess we	ork	is:
63.	The type o	Adiabatic	(B)	Po	lytropic
			(D)	Is	othermal
	(C)	Tenthalpic .			
	The an imp	compressible fluid which of the following	ng is tr	ue	
64.		a te to te at appelunt pressure 81	nu con	BLUE	III. VIJIMINO HE O
	(A)	a cr. best of constant pressure is	greate	r u	an that at consedite to
		Specific heat at constant volume is g	reater	the	an that at constant pressure
	(C)	None of the above			
	(D)	None of the above			
.02	v 10.1a	w states that the specific internal ener	gy of	a gr	as:
65.	Joule 8 18	Depends on temperature of the gas	(B)	D	Depends on pressure of the gas
	(A)	Independent of pressure of the gas	(D)	(.	A) and (C)
	(C)	Independent of pressure			
00	To an ide	al gas the partial pressure of a compor	ent is		
66.	In an ide	Inversely proportional to square of r	nole fr	act	tion
	(B)	Directly proportional to mole fraction	n		
	(C)	- 1 to courage of m	ole fra	acti	on
		Equal to mole fraction	7		
	(1)	) Equal in more assured			
67	Insurvio	n curves are the curves of			
01		) Constant entropy			
	(B	Townsent amount			
	(C	Constant enthalpy			
	(E	t i de ef procestro wi	th resp	pect	t to enthalpy
	(L	,, -			
C.	3. Throttl	ing calorimeter is used for measuring			
. 01		Very low dryness fraction	(I	3)	Very high dryness fraction
	17	Calorific values of liquids	(1	0)	Calorific values of gases
	1176.5	TAK TO BE TO SELECT TO THE TAKE THE TAK			to to doubled The final
6	9. A perf	ect gas at 27 °C is heated at constan	t pres	sur	re till its volume is doubled. The final
-	temper	rature is:			327°C
		A) 54°C	-	B)	654°C
	(	C) 108°C	(	D)	094 C
			tale a	-	amount of water at 80°C, the final
100	70. If a c	ertain amount of dry ice is mixed v	vitn s	am	e amount of water at 80°C, the final
	tempe	rature of the mixture will be .		(B)	COLUMN TO THE PARTY OF THE PART
		(A) 80°C		4.	0°C
		(C) 20°C		NOTE !	A
	139/2017	1	0		
	and the same of				

71	A casting v	with a volume to	surface rati	o will cool and solidify
folia de		higher, fast	(B)	higher, slowly
1		lower, slowly	(D)	lower, fast
72.	Which is a	n expendable mould casting pro-	cess?	
	(A)	Shell moulding	(B)	Investment casting
	(C)	Vacuum moulding	(D)	All the above
73.	Impressio	n die forging is also known as :		
	(A)	Open die forging	(B)	Flashless die forging
	(C)	Indirect forging	(D)	None of the above
			in inmunui	om to indirect extrusion is:
74.		sion pressure in direct extrusion	t the same a	t the end
	(A)	Higher at beginning but almost	the come of	the end
	(B)	Lower at beginning but almost	the same at	i che chu
	(C)	Same at beginning but increase		
	(D)			
75.		provides a clearance bet	ween the tr	railing edge of the tool and the newly
	generated	l work surface.	(TIX)	End cutting edge angle
	(A)		(B)	
	(C)	Back rake angle	(D)	All the above
76.	In water	jet cutting stand-off distance is	the separati	on between :
	(A)		r (B)	Nozzle and the operator
	(C)	Nozzle and work surface	(D)	None of the above
	Illianon	ic machining is used to machine		
77.		Non-metallic materials	(B)	Hard and brittle materials
	(C)		is (D	) Soft and ductile materials
78.		machining process(es) re	quire(s) a ve	acuum chamber.
10.	(A)	Laser Beam Machining	(B	
		Ultrasonic Machining	(D	Both (A) and (B)
79.	Tungste	n is usually used as an electrode	in:	
13.	· (A		(B	Submerged arc welding
	(C	Andrew Control of the	(I)	
A	(0	A PLEASURE OF THE PARTY OF THE	11	139/201

80. The code G33 is used for:  (A) Absolute programming  (C) Increment programming	(B) Thread cutting (D) Tool length compensation
81. The following is (are) the limitations of Econor (A) Demand may vary throughout year (B) It assumes that storage space is us (C) Prices of materials change through (D) All the above	r nlimited
82. Work study examines:  (A) Method  (C) Feasibility of a product	(B) Work duration (D) (A) and (B)
83. In process charts the symbols used for respectively.  (A) Square and Triangle  (C) Circle and Triangle  84. Which charts are used for keeping a control  (A) P-chart, C-chart  (C) X-chart, R-chart	(B) Triangle and Square (D) Square and Circle
(A) Alternative (C) Unbounded	(B) Infeasible (D) None of the above
86. Which method is an iterative procedure (A) Slack variable (C) Duplex method 139/2017	for solving LPP in a finite number of steps?  (B) M-method  (D) Simplex method  12

87.	Activities (	G, P and R are the immediate prede	cessors fo	or activity W. If the earliest finish time
	for the thre	ee arc 12, 15 and 10, then the earlie	st start t	
	· (A)	10	(B)	12
	(C)	15	(D)	None of the above
88.		layout is preferred for low volu	ıme prod	luction of non-standard products.
	(A)	Fixed position layout	(B)	Product layout
	(C)	Process layout	(D)	Combination layout
89.	Image bui	lding objectives are related to ——		type of market structure.
	(A)	Competition	(B)	Oligopoly
	(C)	Monopoly	(D)	Monopsony
90.	Which of t	he following is (are) the limitations	of break	-even analysis?
		Static concept		Non-linear behaviour of costs
	(C)	Presence of perfect competition	(D)	All the above
	/			
91.	When a b	ar of cross-sectional area A is subje	cted to a	xial loading P, which of the following is
	true?		Charles and Control of the	J
	(A)	Stress is given by $P/A$ at every se		
	(B)		ng throu	gh the centroid of the cross-section
	(C)	Both (A) and (B)		
	(D)	None of the above		
92.	The value	of Poisson's ratio for cork and conc	rete are	
	(A)	0.1 and 0	(B)	0 and 0.5
	(C)	0 and 0.1	(D)	0.5 and 0
93.	A statica	lly indeterminate structure is one w	hich has	**
	(A)	more constraints that are necessar	ary	
	(B)			
	(C)	exactly the same constraints that	are nece	essary
	(D)	infinite constraints		
A		1	3	139/2017 [P.T.O.]

	***	The Court of the C	oracid ending					
94.	If theory of pure bending is used for calculating the normal stresses in the case of non-uniform bending of beams, the values will be:							
	(A)	Almost correct	TOTAL TO					
		Incorrect						
	1000	Correct or incorrect depending on th	ne magn	nitude of bending moment				
		None of the above						
95.	In case o	f bending of beams of rectangular larger than the average shear s		ection, the maximum shear stress is				
	(A)		(B)	150%				
		250%	(D)					
	(0)	20070	(6)	00070				
96.	A sudden	jump on the bending moment diagram	m is cau	used by :				
	(A)	A concentrated load at that point	(B)	A uniformly varying load				
	(C)	A support at that point	(D)	A couple acting at that point				
97.	In a cantilever beam carrying uniformly varying load starting from zero at the free end, th bending moment diagram is a							
	(A)	Horizontal line	(B)	Inclined line				
	(C)	Parabola	(D)	Cubic				
98.	If a bar is loaded in simple tension, the failure of material may be due to:							
		Normal stresses		Shear stresses				
	(C)	(A) or (B)	(D)	None of the above				
99.	The bend	ing moment at mid-span of a uniform	beam le lengt	of height h subjected to a point load F h, width but of height 2h carrying the				
	same load	1.						
	(A)	same	2000	twice				
	(C)	half	(D)	none of the above				
100.	A simply	supported beam subjected to a couple	at mid	l-span has :				
	(A)	Same bending moment and zero sh	ear stre	ess throughout the length				
	(B)	Same shear stress and zero bending	g mome	nt throughout the length				
	(C)	Zero bending moment at ends and	maxim	im at the centre				
	(D)	None of the above						