Question Paper

of

7th Batch

for

Women Scientists

Under WOS-C Scheme

	h one among the following is a strong smelling agent added to LPG cy in the detection of gas leakage?	(A
A)	Ethanol	
B)	Thioethanol	
C)	Biodiesel	((1
D)	Chloroform	
	ich of the following assas interest sates for all only old on the fire for the fire	
	and bronze are copper alloys, but both differ in chemical composition	
	itionally containing:	
A)	Zinc in brass and tin in bronze	
B)	Chromium in brass and nickel in bronze	
C)	Nickel in brass and tin in bronze	
D)	Tin in brass and zinc in bronze	
	alf life period of an isotope is 2 hours. After 6 hours what fruction of	
() 3) The	nathematical representation of second law of thermodynamics is:	
(A)	dU= dQ - dW	
B)		
	W = TdS	
D)	$dU = C_v dT$	
A)	s_1 ne nam me period is = 10 days	
Q. 4) Flue	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1	0 ⁻³ , 0.03x
Q. 4) Flue	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that :	$10^{-3}, 0.03x$
Q. 4) Flue	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$	10 ⁻³ , 0.03x
Q. 4) Flue 10 ⁻³	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$ $T1>T2>T3$	10 ⁻³ , 0.03x
Q. 4) Flue 10 ⁻³ A)	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$ $T1>T2>T3$ $T1>T2>T3$ $T1>T2>T3$	10 ⁻³ , 0.03x
Q. 4) Flue 10 ⁻³ A) B)	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$ $T1>T2>T3$	10 ⁻³ , 0.03x
Q. 4) Flue 10 ⁻³ A) B) C) D)	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$ $T1>T2>T3$ $T1 None of these$.0°3, 0.03x
Q. 4) Flue 10 ⁻³ A) B) C) D)	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02 x1 and 0.04 x 10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$ $T1>T2>T3$ $T1 None of these$	(a)
Q. 4) Flue 10 ⁻³ A) B) C) D)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these	(a) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Q. 4) Flue 10 ⁻³ A) B) C) D)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these	(8)
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these	(A) (B) (C) (A) (B) (A) (B) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B) C)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these	(E) (D) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these most abundant rare gas in the atmosphere is: Ar Ne He He Xe	(A)
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B) C)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1>T2>T3 T1 <t2<t3 none="" of="" td="" these<=""><td>(0) (1) (1) (1) (2) (3) (4) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6</td></t2<t3>	(0) (1) (1) (1) (2) (3) (4) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B) C) D)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these most abundant rare gas in the atmosphere is: Ar Ne He Xe mumber of water molecules present in a drop of water (volume 0.0018)	(1) The last (1) (1) (1) (1) (1) (1) (1) (1) (1)
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B) C) D)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these most abundant rare gas in the atmosphere is: Ar Ne He Xe number of water molecules present in a drop of water (volume 0.0018 m temperature is:	10-3, 0.03x
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Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B) C) D)	gas viscosities at temperatures T_1 , T_2 and T_3 were obtained as 0.02×10^{-3} kg/m/s respectively. This means that : $T1=T2=T3$ $T1>T2>T3$ $T1 None of these most abundant rare gas in the atmosphere is : T_3 Ar Ne He Xe T_3 Ne T_3 Ne T_4 Ne T_4 Ne T_5 Ne T_5$	10-3, 0.03x
Q. 4) Flue 10 ⁻³ A) B) C) D) Q. 5) The A) B) C) D)	gas viscosities at temperatures T ₁ , T ₂ and T ₃ were obtained as 0.02 x1 and 0.04 x 10 ⁻³ kg/m/s respectively. This means that: T1=T2=T3 T1 > T2 > T3 T1 < T2 < T3 None of these most abundant rare gas in the atmosphere is: Ar Ne He Xe number of water molecules present in a drop of water (volume 0.0018 m temperature is: 1.568 x 10 ³	10-3, 0.03x (8) (11) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C

A)		
,	H^{+}	
B)	HO -	
C)	H_2^+	
D)	H_3O^+	O Biodicsel
		D) Chloroform
Q. 8) Whi	ch among the following is the hai	rdest form of carbon?
B)	Graphite	additionally containing:
C)	Diamond	
D)		
D)	Charcoar	
		C) Nickel in brass and tin in bronze D) Tin in brass and zinc in bronze
Q. 9) The	half life period of an isotope is 2	hours. After 6 hours what fraction of the initia
	ntity of the isotope will be left be	
A)		. 3) The mathematical representation of second
B)	1/3	
C)	1/8	
D)	1/4	
Q. 10) Equ	al masses of oxygen, hydrogen a	and methane are kept under identical condition
A) B) C)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2	and methane are kept under identical condition ll be:
The A) B)	e ratio of the volumes of gases wi 2:16:2 2:16:1	and methane are kept under identical condition ll be:
A) B) C)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2	and methane are kept under identical condition ll be:
A) B) C) D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1	and methane are kept under identical conditional libe:
Tho A) B) C) D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1	and methane are kept under identical conditional libe:
A) B) C) D) Q. 11) The	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1	and methane are kept under identical condition ll be:
Tho (A) (B) (C) (D) (Q. 11) Tho (A) (B)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups	and methane are kept under identical conditional libe:
(A) (B) (C) (D) (Q. 11) The (A) (B) (C)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties	and methane are kept under identical condition ll be: A
A) B) C) D) Q. 11) The A) B)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups	and methane are kept under identical conditionall be:
A) B) C) D) Q. 11) The A) B) C)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties	and methane are kept under identical condition ll be: A
(A) (B) (C) (D) (Q. 11) The (A) (B) (C)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties	and methane are kept under identical condition ll be:
(A) (B) (C) (D) (Q. 11) The (A) (B) (C) (D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties Identical methods of preparation	and methane are kept under identical condition ll be:
Q. 11) The A) B) C) D) Q. 11) The A) B) C) D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties Identical methods of preparation	and methane are kept under identical conditionall be:
Q. 11) The A) B) C) D) C) D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties Identical methods of preparation biodiesel mainly consists of: Poly unsaturated fatty acids	and methane are kept under identical conditionall be:
Q. 11) The A) B) C) D) Q. 11) The A) B) C) D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties Identical methods of preparation biodiesel mainly consists of: Poly unsaturated fatty acids Fatty acid methyl esters	noition of the number of water molecules present in room temperature is a substant rare gas in the atmospherical substant rare gas in t
Q. 11) The A) B) C) D) C) D)	e ratio of the volumes of gases wi 2:16:2 2:16:1 1:16:2 1:1:1 members of a homologous serie The same physical properties Different functional groups Same chemical properties Identical methods of preparation biodiesel mainly consists of: Poly unsaturated fatty acids	and methane are kept under identical conditionall be:

A)	Solid	
B)	Liquid	
C)	Gas	ä n
D)	Saturated vapours	
	A CONTRACTOR OF THE CONTRACTOR	
		0⊝ ⊕
) 14) Wh	ich of the following is an intensive proj	perty?
A)	Internal energy	bills oldlow A (a
B)	Enthalpy	
C)	Density	
D)	Volume	
D)	Volume	
O 15) W/k	ich acches higher colonific value per u	init mass of fuel and galwolld and (13
Q. 15) WI A)	Hydrogen	and and a stranget size with a first
B)	CNG	THE COMPANY OF THE PARTY OF THE
C)	LPG	9. /=\
D)	Petròl	
D)	redor	
		AB/1
Q. 16) Tw	o grams of radioactive substance is red	luced to 0.25 gm during a period of 60
	ys. The half life period is	
A)	10 days	
B)	5 days	D) The sulphonamide functional ar
C)	20 days	
D)	Data insufficient to calculate	
Di		 Tetracyclines act as intercalating an
Q. 17) Bu		
A)	Fat dispersed in water	
B)	Fat dispersed in milk	
C)	Fat dispersed in oil	
D)	Water dispersed in fat	
e di	New Complex Entity	
0.40. ***	Novel Chemical Living	HÒ Ö IS
	nat is the full form of API?	4
A)		
B)	Active Pharmaceutical Ingredient	
C)	Annual Parasitic Index	
D)	Annual Pesticide Index	
		A MINIO
O. 19) Ph	armacokinetics is the effect of the	and pharmaco-dynamics is the effect of
the		and pharmaco dynamics is the critet
A)		
	Body on the drug; Drug on a drug	
	DOUGN OFF THE CHILD, FILLIO OFF S CILLIO	
B)		(b) Ichiposide.
C) D)	Drug on the body; Body on the drug	H) Camposides a service de la composide de la

Q. 20) What type of molecule is the following structure?

- A) A protein.
- B) A nucleic acid.
- C) A phospholipid.
- D) A carbohydrate.

Q. 21) The following general structure is representative of sulphonamides. Which one of the following statements is true for active sulphonamides?

$$R^1HN$$
 $S = 0$ NHR^2

- A) R¹ can be H or an alkyl group
- B) R² must be hydrogen
- C) The aromatic ring is essential
- D) The sulphonamide functional group can be replaced with an ester

Q. 22) Tetracyclines act as intercalating anticancer agents.

Tetrac yclic system

Ammonium ion

Which one of the following is a simplified analogue of tetracyclines?

O. 13) What is the full form of API?

- A) Mitoxantrone
- B) Teniposide
- C) Daunorubicin
- D) Dactinomycin

Q. 23) Wha	at are the two main targets currently used		
A)	Reverse transcriptase and protease.		
B)	Reverse transcriptase and integrase.		
C)	Protease and integrase.		
D)	The viral glycoproteins gp120 and gp41.		
		D) Precision	
	concentration of hydronium, H ₃ O ⁺ , ions		
A)		measured in of subjects to I	
B)	$5.0 \times 10^{-5} \text{ mol dm}^{-3}$		
C)	$14 \times 10^{-3} \text{ mol dm}^{-3}$		
D)	74 mol dm ⁻³		
	lrogen fuel cell vehicles produce one of th	e following as "exhaust"	
A)			
B)	CH_4		
C)	H_2O		
D)	H_2O_2		
Q. 26) In a	dry cell (battery), which of the following		
A)	Ammonium chloride and Zinc chloride	A) Cell wall formation	
B)	Sodium chloride and Calcium chloride		
C)	Magnesium chloride and Zinc chloride		
D)	Ammonium chloride and Calcium chloride	D) - Ptotein synthesis - el	
	partition of cukaryotle chromuids duris		
	at is NCE?		
A)	New Chemical Entity		
B)	Natural Chemical Entity		
C)	New Complex Entity		
D)	Novel Chemical Entity	D) Сентозоше	
0.4111	e clouds are		
	Centinelly identical		
Q. 28) Wh	at are counterfeit drugs?	A) Cell wall formation	
A)	Drug that is not prescribed, or taken for r	easons or in dosages other than the	
		C) Translation termination relea	
B)	Drug which is produced and sold with the	e intent to deceptively represent its o	origin,
	authenticity or effectiveness.		
C)	New drugs that have not yet been approv	ed by the FDA or approved for a nev	w use,

and are in the process of being tested for safety and effectiveness.

D)

another company.

A drug that is comparable to brand/reference listed in dosage form, strength, route

of administration, quality and performance characteristics, and intended use of

A)	ntibacterial drug?		
	Cost		
B)	Size		
C)	Ionization		
D)	Precision		
) 30) For	a generic drug to he hige	quivalent to an innovator drug (per FDA), it	must be
mea	sured in of subjects	to fall within of the mean of the test po	pulation
bioa	vailability.		
A)	50; 50		
B)	80; 20		
C)	20; 80		
D)	95; 5		
		surrounded by a double membrane in eukar	
A)	The cell		
B)	The nucleolus		
C)	Mitochondria		
D)	Chloroplasts		
A) B) C)	Cell wall formation The electron transport c DNA synthesis	hain hain hain hain hain hain hain hain	
D)	Protein synthesis		
) 33) A D	NA sequence required fo	or the partition of eukarvotic chromatids duri	ng mitos
		or the partition of eukaryotic chromatids duri	ng mitos
is a		or the partition of eukaryotic chromatids duri	ng mitos
is a A)	Telomere		
is a A) B)	Telomere Centromere		
is a A)	Telomere		
is a A) B) C) D)	Telomere Centromere Centriole Centrosome	it is NCE? New Chemical Entity Natural Chemical Entity New Complex Entity Novel Chemical Entity	
is a A) B) C) D)	Telomere Centromere Centriole Centrosome	It is NCE? New Chemical Entity Natural Chemical Entity New Complex Entity Novel Chemical Entity and Salar Sal	
is a A) B) C) D) Q. 34) The	Telomere Centromere Centriole Centrosome drug chloramphenicol le Cell wall formation	It is NCE? New Chemical Entity Natural Chemical Entity New Complex Entity Novel Chemical Entity are counterfeit drugs?	
is a A) B) C) D) Q. 34) The A) B)	Telomere Centromere Centriole Centrosome drug chloramphenicol k Cell wall formation Transcription	It is NCE? New Chemical Entity Natural Chemical Entity New Complex Entity Novel Chemical Entity are counterfeit drugs? Drug that is not prescribed, or taken for reason	
is a A) B) C) D) Q. 34) The A) B) C)	Telomere Centromere Centriole Centrosome drug chloramphenicol to Cell wall formation Transcription Translation termination	New Chemical Entity Natural Chemical Entity New Complex Entity Novel Chemical Entity Novel Chemical Entity It are counterfeit drugs? It are counterfeit drugs? Thug that is not prescribed, or taken for reason prescribed dose and purpose, srotsaf easeler	27) Who A) (C) (C) (D) (C) (D) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A
is a A) B) C) D) Q. 34) The A) B) C) C)	Telomere Centromere Centriole Centrosome e drug chloramphenicol to Cell wall formation Transcription Translation termination Polypeptide chain elong	New Chemical Entity Natural Chemical Entity New Courses Entity Novel Chemical Entity Novel Chemical Entity It are counterfeit drugs? Thug that is not prescribed, or taken for reason prescribed dose and purpose, srotased sealer force and purpose and sold with a noiting authoriticity or effectiveness.	
is a A) B) C) D) Q. 34) The A) B) C)	Telomere Centromere Centriole Centrosome e drug chloramphenicol k Cell wall formation Transcription Translation termination Polypeptide chain elong	New Chemical Entity Natural Chemical Entity New Complex Entity Novel Chemical Entity Novel Chemical Entity If are counterfeit drugs?	27) Who A) (C) (B) (C) (C) (A) (A) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
is a A) B) C) D) Q. 34) The A) B) C) D)	Telomere Centromere Centriole Centrosome e drug chloramphenicol to Cell wall formation Transcription Translation termination Polypeptide chain elong	plocks Plocks	27) Who A) (C) (B) (C) (C) (A) (A) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
is a A) B) C) D) Q. 34) The A) B) C) D) Q. 35) Wh	Telomere Centromere Centriole Centrosome e drug chloramphenicol to Cell wall formation Transcription Translation termination Polypeptide chain elong	New Chemical Emmy Natural Chemical Emmy Now Courses Emmy Now Courses Emmy Now Course Emmy Now Course I	andw (12 (A (B (C) (C) (A (A (A)
is a A) B) C) D) Q. 34) The A) B) C) D)	Telomere Centromere Centriole Centrosome e drug chloramphenicol to Cell wall formation Transcription Translation termination Polypeptide chain elong	plocks Plocks	andw (12 (A (B (C) (C) (A (A (A)

O. 36) Bacterial enzyme that cut DNA at specific sites within the DNA molecule is called Exonuclease A) Restriction endonuclease II B) Methylase C) Transferase D) O. 37) Phytochrome is a Blue protein pigment A) Red protein pigment B) Yellow protein pigment C) D) None O. 38) Small subunits of rubisco are synthesized in the Chloroplast A) Cytoplasm B) Mitochondria C) Nucleus D) O. 39) Transcription is a process in which DNA synthesis takes place A) mRNA synthesis takes place B) C) protein synthesis takes place DNA and mRNA synthesis takes place Q. 40) A nucleotide consists of: Nitrogenous base A) B) Nitrogenous base + pentose sugar Nitrogenous base + phosphate C) Nitrogenous base + pentose sugar + phosphate D) O. 41) The clones are Genetically identical A) Phenotypically identical B) Homozygous at all the loci C) D) Not affected by a change of the environment Q. 42) Photosystem II oxidizes water to oxygen in the Stroma lamellae A) B) Thylakoid lumen Thylakoid membrane C)

D)

None

	A) Centrifugation	ibosome particle is determined throu	(A
В			
C			
D	MANAGEMENT		
14) D	and the bands are forward by involve	ing .	
	eptide bonds are formed by involved and Two amino groups	ing.	
E	,		
	Two keto groups	Yellow protein pigment	
1	One carboxyl and one amino gr	oup	
) _ 20; X0		
	urity of enzyme depend upon:		
	3) Catalytic power of enzyme		
331	C) Enzyme units		
I	D) Specific activity of enzyme	Milochondria	
Q. 46) N	Name the enzyme, which converts F		
I	 A) DNA dependent DNA polymera 		
I	RNA dependent DNA polymera	ase angle solet sisadiave AMG	
(C) DNA dependent RNA polymera	ase will did a sull albeiting a AMATIO	18 /
I	D) DNA polymerase	protein synthesis takes place	
	The electron transport chain		
O 470 7	The intermedianal unit for engrume		at 30°C
	vill convert substrate to product at	ctivity is the amount of enzyme which the rate of:	rat 50 C
	A) 1 micromole/min		
	C) 1 millimole/min		
	D) 1 millimole/sec		
	2 Centrolle 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
O. 48) J	Jasmonic acid helps in:		
_	A) Plant defence against pathogen		
	B) Apical dominance		
	C) Photophosphorylation		
		Phenotypically identical	
		Not affected by a change of the enviro	(Q
0.400	The nothway that norticinates in th	e biosynthesis of most plant phenolics	s ie
		e prosynthesis of most plant phenones	. 13
	A) Shikimic acid pathway	osystem II oxidizes water to oxygen in	42) Phot
NEW TOWN	,	was from the man desired on the section	
	C) ADC		
	C) ADC pathway D) None		

Academ orange
 Common possible
 Contains

	rons. Which of the following is a neurodegenerative disease:	
A)	Diabetes 5mysodiff	
B)	Crohn's Disease	
C)	Parkinson's Disease	
D)	Foot and mouth disease	
), 51) The	direction of protein synthesis was determined by which of the follow	ing: 172
(A)	Lowry's Method	TA
B)	Pulse labelling	
C)	GUS histochemical assay	
D)	Light microscopy and contact a	
5'-	RI, a type II restriction endonuclease recognises the following DNA G A A T T C -3'	sequence
	C T T A A G-5'	
	h a sequence is a : The sequence is a sequen	
A)	Palindrome and mass and the system boundary	
B)	Primer	
C) D)	Ribozyme Hairpin Loop Hairpin Loop	
Q. 66) H	at is the space and the space	
*		
	Linergy in a stance, body	
	ich of the following is known as energy crop:	
A)		
B)	Jatropha	
	Eggplant can be meet one stopy a to gnitting a most linear half a	
. D)	Marigold	
	<i>norhabditis elegans</i> , a, is considered as a model orgaņism fo grammed cell death.	r studyin
A)	프로프로 수 있는 지난 프로그램 프로그램 그 아이트를 가게 되는 것이 되었다면 그렇게 되는 것이 되었다면 그렇게 되었다면 하는데 그렇게 되었다면 하는데 그렇게 되었다면 그렇게 되었다면 그렇게 되었다.	
B)	Nematode Meast = Cyclic integral of Work	
C)	Fly	
i i	Fungus the is formed by pasting together two streets, over \$ 1944 of the contract of the contr	nak(I pid()
	aductivity of the plate will be: Very similar to that of aluminum	
	ich of the following is known to have anticancer function in a human	cell:
A)	Petrol and diesel engines have a spark plugutous lattraction of the diesel and a spark plugutous formation and the state of the state o	
B)	Petrol engines have a spark plug and diesel engines do nothin and 85q	
	(1111)	
C) D)	Diesel engines have a spark plug and penol engines do not spark plug is not needed in internal combustion engines . nox3	

	ed as:		
A)	Ribozyme		
B)	Allosteric enzyme		
C)	ADOCHZYIIC		
D)	Co-enzyme		
	ich of the following is known as a natural genetic e	ngineer	
A)	Agrobacterium species	Lowry's Method	
B)	Mycobacterium tuberculosis		
C)	Blue green argue		
D)	Rhizobium species		
	Turn over mumber of engage		
O. 58) Wh	ich of the following is an essential amino acid for hu	ıman body:	
A)		enga Henyi a . 19	
B)	Lysine		
C)	Asparagine		
D)	Alanine		
D)	the servine, which converts I/IVA to thVA		
	TWA Assumed to NA A surplinearing		
B) C)	8 6		
D)	in 2 contional walt for an approaching as fewerable.		
2)	convert substrate to product at the rate of :		
		Jatropha	
O 60) Twi	ns that result from splitting of a zygote are termed		
(A)	Heterozygotic	Marigold	
B)	Monozygotic		
	Hermaphroditic		
C)	Dizygotic		
D)	Dizygotic	orhabdītis elegans,	
Q. 61) Wh	ich of the following statements represents the first	aw of thermodyna	imics?
A)	Cyclic integral of heat = Cyclic integral of Work		
B)	Q = W		
C)	h = u + pv		
D)	pv = nRT		
	padiwey that participates to the least thesis of me Shiking and pathway		
Q. 62) Wh	ich of the following statements is true for internal c	ombustion engine	s?
(A)	Petrol and diesel engines have a spark plug	Intron	(A
B)	Petrol engines have a spark plug and diesel engines	do not	

Diesel engines have a spark plug and petrol engines do not

Spark plug is not needed in internal combustion engines

C)

D)

Q. 56) The enzyme that changes its conformation upon binding of an effector molecule is

	an electric room heater (rated at 'X' Watts) which of the following stated:	
A)	Heat output rate = Heater rating	
B)	Heat output rate < Heater rating was said astanced and overgon.	
C)	Heat output rate > Heater rating	
D)	Heat output rate has no relation to heater rating	
) 64) Stea	dy state means that	
A)	No parameter changes with time	
B)	No parameter changes in x-direction	
C)	All parameters change at a given location	(B)
D)	All parameters are same entitle and no another raise to be lamed T	
D)	Specific heat of air	
O. 65) An	open system is one where	
A)	System mass is constant a long of the system mass is constant to the system mass is constant	
B)	Energy of the system is constant and a second but product at bl	
C)	Mass, but not energy, can cross the system boundary	
D)	Both energy and mass can cross the system boundary	
~)	Casting	
O. 66) Hea	t is defined as:	
A)	Energy contained in a body	
B)	Energy in a moving body	. 72) A.dr
C)	Energy crossing the system boundary due to a temperature difference	
D)	$mC(T_2-T_1)$	
-)	Bending an object	
	Making and threading a hole	
Q. 67) A h	ot rod is placed in a room and is cooling by convection. The heat tran	sfer rate i
A)	Proportional to its surface area	
B)	Proportional to its volume	
C)	Proportional to its diameter	
D)	None of the above	
	Reduce sucesses in the material	
		ick
	omposite plate is formed by pasting together two sheets, one 3 mm this	
pol	yurethane foam and 1 mm thick aluminium sheet. The overall therma	
pol cor	yurethane foam and 1 mm thick aluminium sheet. The overall thermaductivity of the plate will be:	
pol con A)	yurethane foam and 1 mm thick aluminium sheet. The overall thermaductivity of the plate will be: Very similar to that of aluminium	al MMV (AV
pol cor A) B)	yurethane foam and 1 mm thick aluminium sheet. The overall thermal ductivity of the plate will be: Very similar to that of aluminium Very similar to that of polyurethane	al MMV (AV
pol con A)	yurethane foam and 1 mm thick aluminium sheet. The overall thermaductivity of the plate will be: Very similar to that of aluminium	al MMW (AV

A) Improve the aesthetics B) Improve the aerodynamics C) Improve the heat transfer from engine to ambient air D) Shift the centre of gravity to the correct location Q. 70) Wet clothes are hung on a rope on the terrace of a house for drying, Which of the following parameters does NOT affect the rate of evaporation of water from the clothes? A) The air velocity B) Relative humidity of air C) Thermal and/or solar radiations on the clothes D) Specific heat of air Q. 71) Liquid metal is poured into a sand mould and allowed to solidify after which the mould is broken and the part is obtained. This process is called: A) Welding B) Pouring C) Casting D) Solidifying Q. 72) A drilling machine can be used for: A) Only for making a hole B) Cutting a plate C) Bending an object D) Making and threading a hole C) Timprove its appearance B) Change its shape C) Reduce stresses in the material D) Increase its hardness Q. 74) Which of the following materials is NOT suitable for making ceramic parts: A) Silicon nitride B) Boron nitride C) Titanium dioxide	Q. 69) Moto	or cycle engines have fins whose purpose is to:	
C) Improve the heat transfer from engine to ambient air D) Shift the centre of gravity to the correct location Q. 70) Wet clothes are hung on a rope on the terrace of a house for drying. Which of the following parameters does NOT affect the rate of evaporation of water from the clothes? A) The air velocity B) Relative humidity of air C) Thermal and/or solar radiations on the clothes D) Specific heat of air Q. 71) Liquid metal is poured into a sand mould and allowed to solidify after which the mould is broken and the part is obtained. This process is called: A) Welding B) Pouring C) Casting D) Solidifying Q. 72) A drilling machine can be used for: A) Only for making a hole B) Cutting a plate C) Bending an object D) Making and threading a hole Q. 73) A component is subjected to an annealing process in order to: A) Improve its appearance B) Change its shape C) Reduce stresses in the material D) Increase its hardness Q. 74) Which of the following materials is NOT suitable for making ceramic parts: A) Silicon nitride B) Boron nitride	A)	improve me debutenes	
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Q. 74) Which of the following materials is NOT suitable for making ceramic parts: A) Silicon nitride B) Boron nitride	D)	Increase its hardness	
Q. 74) Which of the following materials is NOT suitable for making ceramic parts: A) Silicon nitride B) Boron nitride			
Q. 74) Which of the following materials is NOT suitable for making ceramic parts: A) Silicon nitride B) Boron nitride		aposite plate is formed by pasting together two sheets, one.3 mm thic	
Q. 74) Which of the following materials is NOT suitable for making ceramic parts: A) Silicon nitride B) Boron nitride		prethane foam and I mm thick aluminium sheet. The overall charmol	yioq
A) Silicon nitride B) Boron nitride A) Silicon nitride B) Boron nitride	Q. 74) Whi	ich of the following materials is NOT suitable for making ceramic par	ts:
B) Boron nitride			(A
C) Titanium dioxide			
	C)	Titanium dioxide	

D)

Tungsten carbide

Q. 75) The keys of a computer keyboard are made of: Copper Plastic B) Ceramic C)

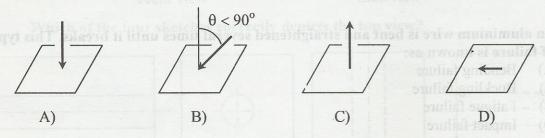
- Q. 76) Towers for suspending power transmission lines are made of:
 - Plastic pipes
 - B) Rolled steel sections

Composite material

Ceramics C)

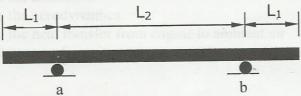
D)

- Bamboo D)
- Q. 77) If a material can be drawn into long thin wires or thin foils, then the material is said to be:
 - A) Strong
 - B) Ductile
 - Hard C)
 - Flexible D)
- Q. 78) Strain is defined as:
 - Time rate of change of length
 - Change of thickness B)
 - Ratio of change in length to undeformed length C)
 - Ratio of undeformed length to original length D)
- Q. 79) Which of the following sketches represents a shear stress?

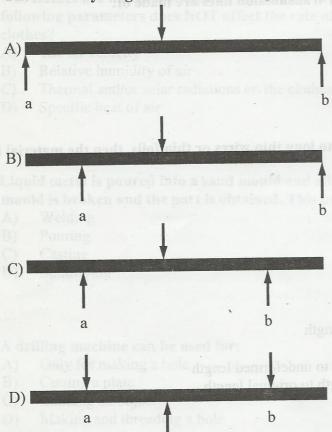


- Q. 80) Which of the following is not a stress?
 - A)
 - Normal stress B)
 - C) Torsional stress
 - Pressure stress D)

Q. 81) A steel beam of mass W tonnes is supported at two points 'a' and 'b' as shown below.



The free body diagram of the beam is given by:



- Q. 82) An aluminium wire is bent and straightened several times until it breaks. This type of failure is known as:
 - A) Bending failure
 - B) Buckling failure
 - C) Fatigue failure
 - D) Impact failure
- Q. 83) A body of mass 'm' is moving with velocity V (whose magnitude is v). The momentum of the body is given by:
 - A) mv
 - B) mV
 - C) $mv^2/2$
 - D) $m(V \times V)$

Q. 84) In the cylindrical coordinate	system a point P is represented as (r, θ, z) . T	he
position vector of P , \vec{r}_p is:	Process Engineering and Research Technique	

A)
$$r\cos(\theta)\hat{e}_r + r\sin(\theta)\hat{e}_\theta + z\hat{k}$$

- B) $r\hat{e}_r + r\theta\hat{e}_\theta + z\hat{k}$
- C) $r\hat{e}_r + z\hat{k}$
- D) $r\hat{e}_r + \theta\hat{e}_\theta + z\hat{k}$

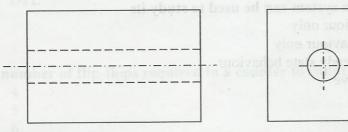
Q. 85) Given a force field $\vec{F} = F_1(x)\hat{i} + F_2(y)\hat{j} + F_3(z)\hat{k}$. \vec{F} is:

- A) Conservative
- B) Non-conservative
- C) Conservative only if $F_3 = 0$
- D) Conservative only if $F_1 = F_2 = F_3$

Q. 86) A uniform spherical buoy floats on water. The metacentric height:

- A) Is positive
- B) Is negative
- C) Is zero
- D) Does not exist

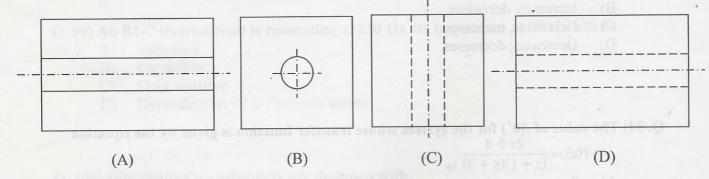
Q. 87) The front and side views of an object (in 3rd angle projection) are given below.



Front view

Side view

Which of the four sketches correctly depicts the top view?



Q. 88) In industrial engineering the acronym CPM stands for

- A) Critical Process Method
- B) Continuous Process Management
- C) Critical Path Method
- D) Continuous Process Monitoring

Q. 89) In in A)	ndustrial engineering the acronym Process Engineering and Research	PERT stands for the land of th
B)	Programme Evaluation and Revie	vy Technique
C)	Programme Execution and Review	w Technique
D)	Planning Engineering Research T	
		C) rê, +zk
	free body diagram of the beam is	
Q. 90) The	queuing term "FIFO" stands for	
A)	Fast In Fast Out), 85) Given a force field $\vec{F} = F_i(x)\hat{t} + K_i \hat{t}^{\dagger}\hat{t}^{\dagger}\hat{t}^{\dagger}$
B)	Fixed In Fixed Out	
C)	First In First Out	
D)	First In Fast Out	
		D) Conservative only if $F_1 = F_2 - F_3$.
Q. 91) In a	a critically damped system, the da	mping factor of the system is
A)	Zero	
B)	Less than unity	
C)	Unity	
D)	Greater than unity	
A) B) C)	Steady state behaviour only Transient and steady state behavi	
D)	None of the above	
Q. 93) Wi A) B) C) D)	Increases, decreases Decreases, increases	stability and system gain
		The state of the s
Q. 94) Th	70+3	se transfer function is given by the equation
A)		
B)		
C)	2	
D)		B) · Continuous Process Management
1	$_{\rm c}$ m($V \times V$) and	

Q. 95) If the poles of a system are lying on the imaginary axis in S plane, the system will be Conditionally stable B) Stable Marginally stable C) Unstable D) O. 96) The equivalent inductance of the circuit is L2 L_1-L_2-2M A) $L_1 + L_2 + 2M$ B) L_1+L_2-M C) $L_1 + L_2 - 2M$ D) Q. 97) Which one of following logic family ICs is used in watches: A) TTL ECL B) **CMOS** C) no S-12 invest combination is not valid: DTL 104) A series RLC circuit with values of 1 Kohm, 0.1 Henry, and 1 microfarad Q. 98) The number of flip-flops required in a counter to count 30 pulses: 4 A) 5 B) 6 C) D) then the common mode rejection ratio is: Q. 99) An RLC series circuit is resonating at 250 Hz, its impedance at 50 Hz will be: Inductive A) Capacitive B) Only resistive C) Dependent on RLC elements values D) Q. 100) Distribution transformers are designed with: Low full load voltage regulation A) Low leakage reactances B) High all day efficiency C) All of above ·D)

Q. 101) The	e phase sequence of generated voltage of C. If the direction of field current is reve	a 3-phase synchronous generator is
A)	ACB	
B)	CBA	B) Stable augus
,	BAC	
(C) (D)	CAB	D) Unstable
D)	CAB	
Q. 102) Mo	ving iron instruments can be used:). 96) The equivalent inductance of the
A)	To measure ac and dc currents and volta	ges
B)	To measure ac currents only	vone ovone
C)	To measure ac voltage only	
D)	To measure dc voltages only	
	25 Coulombs of charge flows past a point esteady current flow across the point? 125 Amperes 25 Amperes	
C)	5 Amperes Sendature at boso at a 31 vit	
D)	0.2 Amperes	
D)	0.2 milperes	
		TIO (O
	eries RLC circuit with values of 1 Kohn	
_	pectively will have a minimum impedance	e or:
A)	Approximately 0.0003 Ohm	
B)	10 Ohm	
C)	1000 Ohm	
D)	Approximately 3100 Ohm	
	the differential gain of an amplifier is 10	0,000 and the common mode gain is 5,
	the common mode rejection ratio is:	
A)		
B)	43 decibels	A Inductive
C)	-86 decibels	
D)	86 decibels	
	value of $i(\theta')$ for the system whose trans	Dependent on RLC elements end turps off vel noving at emirately well end turps off vel noving at emirately well end turps of the continues
	the number of bits of an analog-to-digita	
	n the signal-to-quantization noise ratio i	
A)	Increase by 4 decibels	A) Low full load voltage regular
B)	Decrease by 4 decibels	B) Low leakage resetances
C)	Increase by 24 decibels	C) High all day efficiency
D)-	Remain the same	D) All of above

B)	B rical potential		
C)	A + B		
D)	A.B	asymbol decodes	
O 108) The	e range of decimal numb	ers that can be stored in binary twos complet	ment 8
sign	ed representation is:	e effect of multipath in a digital communical	
A)	-128 to 127		
B)	0 to 255		
C)	-127 to 128		
D)	-128 to 128		
	en institution of 110		
O. 109) Un	icode is a standard for e	ncoding:	
A)	Binary data	nich of the following is not used to measure to	
B)	Text character sets		
C)	Decimal numbers		
D)	Image pixels		
2)	mage piness		
	a S-R flip-flop, the follow	ving S-R input combination is not valid:	
	a S-R flip-flop, the follow	wing S-R input combination is not valid:	
Q. 110) In A) B)	a S-R flip-flop, the follow 0 0 1 0	wing S-R input combination is not valid: To nother updates and the restriction of the combination is not valid:	
Q. 110) In A) B) C)	a S-R flip-flop, the follow 0 0 1 0 1 1	wing S-R input combination is not valid: a common emitter amplifier configuration of the common respectively are the: Base and emitter	
Q. 110) In A) B) C)	a S-R flip-flop, the follow 0 0 1 0 1 1	wing S-R input combination is not valid: To nother addition and the second of the sec	
Q. 110) In A) B) C) D) Q. 111) A the A) B)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varials following approximate p 0.32 0.68	wing S-R input combination is not valid: To not want the second of the	anl (o que (A (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 110) In A) B) C) D) Q. 111) A the A) B) C)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varial following approximate p 0.32 0.68 0.95	wing S-R input combination is not valid: To nother unitaria restriction is not valid:	anl (o que (A (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 110) In A) B) C) D) Q. 111) A the A) B)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varials following approximate p 0.32 0.68	wing S-R input combination is not valid: To not want the second of the	anl (o que (A (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 110) In A) B) C) D) Q. 111) A the A) B) C)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varial following approximate p 0.32 0.68 0.95	wing S-R input combination is not valid: To not read the reading reading the reading between -1 and +1: The read the read the reading between -1 and +1:	anl (o que (A (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 110) In A) B) C) D) Q. 111) A the A) B) C)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varial following approximate p 0.32 0.68 0.95	wing S-R input combination is not valid: To not read the reading reading and reading the reading between and standard deviation equipolability of lying between -1 and +1:	anl (o que (A (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
Q. 110) In A) B) C) D) Q. 111) A the A) B) C) D)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varials following approximate p 0.32 0.68 0.95 0.99	wing S-R input combination is not valid: To not read the read to be read to b	anl (a que (A (B (O) (A) (a (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
Q. 110) In A) B) C) D) Q. 111) A the A) B) C) D)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random varials following approximate p 0.32 0.68 0.95 0.99	wing S-R input combination is not valid: To not a substant a subs	anl (a que (A (B (O) (A) (a (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
Q. 110) In A) B) C) D) Q. 111) A the A) B) C) D)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 Gaussian random variate following approximate p 0.32 0.68 0.95 0.99 a 455 KHz signal is amp quency limit of the signa 5 KHz	wing S-R input combination is not valid: To not a substant a subs	anl (a que (A (B (O) (A) (a (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
Q. 110) In A) B) C) D) Q. 111) A the A) B) C) D)	a S-R flip-flop, the follow 0 0 1 0 1 1 0 1 0 1 Gaussian random variate following approximate p 0.32 0.68 0.95 0.99 a 455 KHz signal is amp quency limit of the signa 5 KHz 450 KHz	wing S-R input combination is not valid: To not a substant a subs	al (o due (A

	Phase detector		
B)	Loop filter		
C)	Voltage controlled oscillator		
D)	Symbol decoder		
	e effect of multipath in a digital communication channel is		
A)	사용에 많은 그들은 하는데 되었다면 그 프로그램 이번 하고 있다면 이루어를 하는데 하는데 그를 보고 있다면 하는데 하는데 하는데 이번 그를 보다 했다.	-128 to 12	
B)	Increase the symbol time-spread		
C)			
D)			
	is Coulombs of charge flows past a problem and brobus		
O 115) W/I	nich of the following is not used to measure temperature:		
Q. 115) WI A)			
B)			
C)			
D)	Thermocouple		
	lop, the following S-R input combination is not valid: but years 1.0 may 1 to confer this tipe is 3.18 series		
Q. 116) In outp	a common-emitter amplifier configuration of an NPN tran out junctions respectively are the:	sistor, the	input
Q. 116) In outp A)	a common-emitter amplifier configuration of an NPN tran out junctions respectively are the: Base and emitter		
Q. 116) In outp A) B)	a common-emitter amplifier configuration of an NPN tran out junctions respectively are the: Base and emitter Collector and emitter	sistor, the	input
Q. 116) In outp A) B) C)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector	sistor, the	input
Q. 116) In outp A) B) C) D)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector	sistor, the	input
Q. 116) In outp A) B) C) D)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector	asistor, the	input
Q. 116) In outp A) B) C) D)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector	asistor, the	input
Q. 116) In outp A) B) C) D)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector	asistor, the	input () () () () () () () () () () () () ()
Q. 116) In outp A) B) C) D)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequen	asistor, the	input () () () () () () () () () () () () ()
Q. 116) In outp A) B) C) D)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequenty 4 Hz	asistor, the	input () () () () () () () () () () () () ()
Q. 116) In outp A) B) C) D) And I of Market Q. 117) In A) B)	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequent 4 Hz 40 Hz	asistor, the	input () () () () () () () () () () () () ()
Q. 116) In outp (A) (B) (C) (D) (Q. 117) In (A) (B) (C)	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequent 4 Hz 40 Hz 400 Hz	asistor, the	input () () () () () () () () () () () () ()
Q. 116) In outp (A) (B) (C) (D) (Q. 117) In (A) (B) (C) (D)	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequen 4 Hz 40 Hz 400 Hz 4000 Hz	cy is set to	input
Q. 116) In outp (A) (B) (C) (D) (Q. 117) In (A) (B) (C) (D)	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequen 4 Hz 40 Hz 400 Hz 4000 Hz	cy is set to	input
Q. 116) In outp (A) (B) (C) (D) (C) (D) (A) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequent 4 Hz 40 Hz 400 Hz 4000 Hz	cy is set to	input
Q. 116) In outp (A) (B) (C) (D) (C) (D) (A) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequen 4 Hz 40 Hz 400 Hz 4000 Hz	cy is set to	input
Q. 116) In outp (A) (B) (C) (D) (A) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequent 4 Hz 40 Hz 400 Hz 4000 Hz	cy is set to	about
Q. 116) In outp (A) (B) (C) (D) (A) (D) (C) (D) (C) (D) (D) (C) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequen 4 Hz 40 Hz 400 Hz 4000 Hz mich of the following statements is true about a pH meter?	cy is set to	about
Q. 116) In outp A) B) C) D) And I outp A Q. 117) In A) B) C) D) Taggar Q. 118) WI A)	a common-emitter amplifier configuration of an NPN transput junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequent 4 Hz 40 Hz 400 Hz 4000 Hz Thich of the following statements is true about a pH meter? It measures the neural activity of the brain	cy is set to	about
Q. 116) In outp (A) (B) (C) (D) (Q. 117) In (A) (B) (C) (D)	a common-emitter amplifier configuration of an NPN transport junctions respectively are the: Base and emitter Collector and emitter Base and collector Emitter and collector Emitter and collector the monitor mode, the ECG low pass filter cut-off frequen 4 Hz 40 Hz 400 Hz 4000 Hz mich of the following statements is true about a pH meter?	cy is set to	about

A) B)			
H.I	Sound pressure level		
,	Electrical potential	High I/O rate	
C)	Vibration		
D)	Fluid velocity	memeroogyods on 10 IIA	
	Piles on the hard dark are lost and complete the Hard one's offices, including consellences		
	uncompressed colour image of size 1280 y have the following approximate size:	x 800 pixels and 8 bits per p	rimar
A)	10 KB	ch must not be executed whi	
B)	1 MB		
	3 MB		
(C)	10 MB		(1)
D)	10 IVID		
Q. 121) Bi	nary multiplication of 11011 x 101 is		
A)	ng language that is replaced b 11001111e		nA (8
B)			
C)	10101101	Macro	
D)	10010011		
	7 17.1		
O. 122) Ar	assembler is		
A)	Programming language dependent		
B)	Syntax dependent	tich of the following is true a	
C)	Machine dependent		
D)	Data dependent		
-,	A) - The	A# assembly language	
Q. 123) Aı	alysis which determines the meaning of a	statement once its grammat	ical
	cture becomes known is termed as		
stri	Syntax Analysis		
strı A)	Sylliax Allalysis		
	Semantic Analysis		
A)			
A) B)	Semantic Analysis		
A) B) C)	Semantic Analysis General Analysis Regular Analysis	All of the above absented benefits of object-oriented	
A) B) C) D)	Semantic Analysis General Analysis Regular Analysis Analysis Analysis Analysis	All of the above a benefits of abject-oriented The ability to tackle more cl	
A) B) C) D)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association	All of the above a benefits of object-oriented The ability to tackle more elemental Reusability of Syromem evi	
A) B) C) D) Q. 124) W A)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the	being the location of the second of the seco	
A) B) C) D) Q. 124) W A) B)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the	being the dealer of the memory? The color of	
A) B) C) D) Q. 124) W A)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the There is no need for an address i.e. the data	being the dealer of the memory? The color of	
A) B) C) D) Q. 124) W A) B) C) D)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the There is no need for an address i.e. the data The data are accessed sequentially	home to de la company de la co	() (1) Tho (A) (A) (B) (C) (C)
A) B) C) D) Q. 124) W A) B) C) D)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the There is no need for an address i.e. the data The data are accessed sequentially	heine to de la califora de la califo	() (1) Tho () () () () () () () () () () () () ()
A) B) C) D) Q. 124) W A) B) C) D)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the There is no need for an address i.e. the data The data are accessed sequentially	heine to de la califora de la califo	() (1) Tho () () () () () () () () () () () () ()
A) B) C) D) Q. 124) W A) B) C) D)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the There is no need for an address i.e. the data The data are accessed sequentially hich of the following is a block device?	being the deal do to although a la crom electron of valida on T ive memory? A mildean of the CPU materials bevorant users a sea an address as an address and address an address and address and address and address and address an address and address	(C) (D) (C) (B) (A) (D) (C) (C) (A) (Me I
A) B) C) D) Q. 124) W A) B) C) D)	Semantic Analysis General Analysis Regular Analysis hich of the following refers to the association The address of the data is generated by the There is no need for an address i.e. the data The data are accessed sequentially	home tool do to affine a de la come el son or valida en Trive memory? La calida son Trive memory? La calida son Trive memory? La calida son Trive memory a calida son trive me	() (1) Tho () () () () () () () () () () () () ()

D)

Mouse

Q. 126) Poor	r response time are caused by		
A)	Processor busy		
B)	High I/O rate		
C)	Page fault		
D)	All of the above	Anortas armitis	
			1207 A
Q. 127) A re whice	elationship between processes such that the latest the latest holds are the latest than the latest	h that each has some part (critical s critical section of another is being e	ection) xecuted, i
	vn as		
A) ·	Semaphore		
B)	Mutual exclusion		
C)	Multiprogramming		
D)	Multitasking		
		ary multiplication of 11011 x 101 b	
O 120) Am		nguage that is replaced by a sequence	
Q. 120) All	cuctions prior to assembly or com	piling is known as	
A)	Macro	10110101	
	Label	10010011	
B)	Procedure name		
C)			
D)	None of the above		
		Programming language dependent	
Q. 129) WI	nich of the following is true about		
A)	A machine language		
B)	A high-level language		
C)	An assembly language		
D)	None of the above		
O 130) A	UML diagram includes which of t	the following?	
(A)	Class name	fure becomes known is termed as	
B)	List of attributes		(A
C)	List of operations		
D)	All of the above		10
(ט	All of the above	Regular Analysis	
	z monitor mode, the EARs low par as a	the analysish of the following?	
	ne benefits of object-oriented mod	ening are which of the following.	
A)	The ability to tackle more challer	nging providing	
B)	Reusability of analysis, design, a	and programming results	
C)	Improved communication between	en users, analysts, etc.	79
D)	All of the above	The address of the data is supplied by There is no need for an address i.e. the	
		THE GREAT ACCESSED SECTIONISH V	
Q. 132) T	ne data from a spreadsheet needs	to be imported into a database pack	kage. Whi
	format would be the most appro-	priate when saving the spreadsheet	ille (SS)
file			
	CSV		
A)	CSV HTML		
A) B)		Ferminals birth is in vitros Printer	(B) (C) 1
A)	HTML	1 ommaals	

		Packet may arrive out of order Duplicate packets may be gene		
O 133) Wh	ich of the following would indicate that	the motherboard battery has fai	led?	
(A)	Operating system passwords are lost			
B)	Files on the hard disk are lost and corrup	oted		
C)	Handware cottings including virtual mer	nory reverts to default values		
D)	Hardware settings, including the current	date and time reverts to default va	lues	
D)	Transvare settings, meaning			
Q. 134) Wh	ich type of memory is volatile?			
A)	Cache			
B)	ROM			
C)	RAM			
D)	All of the above			
		determines wh		
			(A)	
O 135) Dat	tabase schema is written in			
Q. 133) Da	HLL			
B)	DDL			
C)	DML			
D)	DCL			
D)	BCL			
				1.00
COLECTION OF THE				N.
Q. 136) In	a Hierarchical model, records are orga	Design		
A)	Graph	Analysis		
B)	Link List			
C)	Dillico			
D)	Tree			
O 137) Th	ne method of access which uses key tran	sformation is known as	TA	
Q. 137) 11 A)	Direct			
B)	Hash			
C)	Random			
D)	Sequential	Y		
D)	Sequential			
O 138) A	logical schema			
Q. 136) A A)	Is the entire database			
B)	Is a standard way of organizing inform	nation into a accessible part		
C)	Describe how data is actually stored or	n disk		
D)			* (Q	
D)	None of these			
	- 1 ()1 - i-i-i	children		
	B-tree of order 'm' has maximum of _	they mentogia issisat day or no		
A)				
B)				
C)				
. D)	m/2	louns are II A		

- ,	A market may be last	Havic	
	A packet may be lost		
B)	Packet may arrive out of order		
C)	Duplicate packets may be generate	:d	
D) -	All of the above		
		Operating system passwords are lost	
0 141) 6-		Hardware sattings including virtual	at the same
	mmunication circuits that transmi	t data in both directions but not	at the same
	e are operating in		
A)	A simplex mode		
B)	A half-duplex mode		
C)	A full duplex mode		
D)	An asynchronous mode		
0 4 40) 777			
Q. 142) Th		er the project should go forward	•
A)	Feasibility assessment		
B)	Opportunity identification	abase schema is written in a contra	
C)	System evaluation		
D)	Program specification		
		-1 -: 41-41-	AL CDIC
	e make-or-buy decision is associate	ed with thestep in	
A)	Problem/Opportunity Identification	. Hierarchical model, records are d	
B)	Design		
C)	Analysis		
D)	Development and Documentation		
		abril .	
O 140 II.		120(desimal) in hinary notation	
	ow many bits are required to store		
A)	O Long marie		
B)	7 or of attributes		
C)	8 st of operations		
D)	9 I at the shows		
O 145) W	hat is the number of adges in a trace	of 'n' nodes	
	hat is the number of edges in a tree		
A)	greater than 'n'		
B)	less than 'n-1'		
C)		Describe how data is actually stored	
D)	'n-1'		
0 146 W	high is the festest algorithm (on av	araga) for souting (n) numbers	
	hich is the fastest algorithm (on av	crage, for sorting it numbers	
A)	Interchange Sort		
B)	Bubble Sort		
C)	Quick Sort		(Cl
D)	All are equal		

O. 147) Wh	ich of these is open source	software	
	Windows	Successor of prodecessor of 1000 is 1002.	
B)	Linux		
C)	Oracle		
D)	MS Word	Successor of predecessor of 1000 is 1001.	
* D)			
Q. 148) God			
A)			11 (691 1
B)	Operating System		skine stre
C)	Search engine		
D)	Compiler	thile stopping or the stations. The breed of 26-23-13-7	
O 140) Ma			
	dem stands for A type of secondary memory		
A)		vam travels 7 lon to the north. Then he tur	
and B) A		ce memory	
D)	None of the above	-Station gathrate off mor	
(با	None of the above		
150) TI	1		
		safe from unauthorized users is called	171
A)	Locking	v	*
B)	Hiding		
C)	Shading		
D)	Encryption	iter covers what percent of the earth's surf	
Q. 151) I'd	like informa	tion, please.	Q
(A)	An	STATE AND THE PROPERTY OF THE PARTY OF THE P	
B)			
C)	Piece		
D)	A piece		
-/	and the second second		
		otobiology is the branch of science which is	MILIOCI.
	least a years	How organisms see	
Q. 152)	to TIFAC Ve	sterday?	
	to ThAC ye		
A)	Do you walk	The effects of visible and ultraviolet radiati	
A) B)	Do you walk Did you walk	The effects of visible and ultraviolet radiation living systems produce visible light	
	Do you walk Did you walked	The effects of visible and ultraviolet radiati How living systems produce visible light	
B)	Do you walk Did you walk Did you walked Have you walked	The effects of visible and ultraviolet radiation of the light of the l	
B) C)	Do you walk Did you walked Have you walked	The effects of visible and ultraviolet radiating effects of visible light. How living systems produce visible light as 15 at 25 and 25 and 25 at 25 at 25 and 25 at 25 a	(O (G ast Rs. 20
B) C)	Do you walk Did you walk Did you walked Have you walked	The effects of visible and ultraviolet radiation of the light of the light of the light and the light of the following explains why a sailboatich of the following explains when the following explains which is a sailboatich of the following explains when the following explai	(O (G a. Ra. 20 dw (e2) .
B) C) D)	Do you walk Did you walk Did you walked Have you walked	He effects of visible and altraviolet radiation of the light systems produce visible light at 5 at a state we are the state at a sta	(O (G set Rs. 20 tw/(es).
B) C) D)	Do you walk Did you walk Did you walked Have you walked	The effects of visible and ultraviolet radiate How living systems produce visible light a 21 att gatters assess to other own via a 22 att gatters as the contract of the following explains why a sailbear the following explains why a sailbear demonstrate as a contract of the following explains why a sailbear demonstrate as a contract of the following explains a contract of the fol	(O (G a.t Ra. 20 dW (e21 .
B) C) D) 	Do you walk Did you walk Did you walked Have you walked	He effects of visible and altraviolet radiation of the light systems produce visible light at 5 at a state we are the state at a sta	(O (CI (O) (O) (O) (O) (O) (O) (O)
B) C) D) Q. 153) I w A)	Do you walk Did you walk Did you walked Have you walked rent to the shop for buying	The effects of visible and ultraviolet radiate How living systems produce visible light a 21 att gatters assess to other own via a 22 att gatters as the contract of the following explains why a sailbear the following explains why a sailbear demonstrate as a contract of the following explains why a sailbear demonstrate as a contract of the following explains a contract of the fol	(O (G set Ro. 20 set Ro. 20 set (PR) (A) (B)

Q. 154) Wh	Greenson of producessor of 1000 is 1002		
A)	Successor of predecessor of 1000 is 1002. Predecessor of successor of 1000 is 1000.		
B)	Predecessor of successor of 1000 is 1000.		
(C)	Predecessor of predecessor of 1000 is 999.		
D)	Successor of predecessor of 1000 is 1001.		
	an amount from electric that report of their in path diese		
tisten	San	DK'9	
	ABLE' is coded as 23-24-8-1, how will you code 'DA		
A)	25-22-15-0		
B)	26-23-14-7		
C)	26-24-12-6		
D)	26-23-13-7		
		dem stands for	
he f	10 km	right and walks 3 ow many kilomete	ers away
he f	from the starting point?	ow many kilomete	
he f A) B) C)	from the starting point? 10 km 20 km 13 km	w many kilomete	
he f A) B) C)	from the starting point? 10 km 20 km 13 km	w many kilomete	(C) (S) The (A)
he f A) B) C)	from the starting point? 10 km 20 km 13 km	w many kilomete And a shab lo gaiber anibod. gaibill gaibal	(50) The
he f A) B) C) D)	10 km 20 km 13 km 3 km	w many kilomete	od (02)
he f A) B) C) D)	from the starting point? 10 km 20 km 13 km	w many kilomete And a shab lo gaiber anibod. gaibill gaibal	(50) The
he f A) B) C) D) Q. 157) W: A)	10 km 20 km 13 km 3 km	w many kilomete who show the above the data to show the	(5) (A) (A) (B) (C) (D)
he f A) B) C) D) Q. 157) W: A) B)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55%	w many kilomete who show the above the data to show the	(151) [14]
he f A) B) C) D) Q. 157) W: A) B) C)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40%	w many kilomete who show the above the data to show the	(5) (A) (A) (B) (C) (D)
he f A) B) C) D) Q. 157) W: A) B)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55%	wany kilomete wone of the above coding of the above hoding kilomete kil	(151) [14]
he f A) B) C) D) Q. 157) W: A) B) C)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40%	wany kilomete wone of the above the data to the colors col	(50) The (51) I'd I
he f A) B) C) D) Q. 157) W: A) B) C)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40%	None of the above the abov	15(0) The (5(0) The (5(1)
he f A) B) C) D) Q. 157) W: A) B) C) D)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40% 70%	A piece	(50) The (51) I'd (51) I'd (51) (51) (51) (51) (51) (51) (51) (51)
he f A) B) C) D) Q. 157) W: A) B) C) D)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40% 70% hotobiology is the branch of science which is basicall How organisms see	by concerned with	(50) The (51) I'd (51) (61) (71) (71) (71) (71) (71) (71) (71) (7
he f A) B) C) D) Q. 157) W: A) B) C) D)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40% 70% hotobiology is the branch of science which is basicall How organisms see How to record images of living systems with variou	ly concerned with	(3) [14] (6) [14] (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
he f A) B) C) D) Q. 157) W A) B) C) D)	10 km 20 km 13 km 3 km ater covers what percent of the earth's surface 25% 55% 40% 70%	ly concerned with	(50) The (51) I'd (51) (61) (71) (71) (71) (71) (71) (71) (71) (7

Q. 159) Which of the following explains why a sailboat can sail into the wind:

Bernoulli's Principle

Archimedes's Principle

Pascal's Law

D) Reynold's Numbers

A) B)

C)

and	Decreases Increases Remains same Cannot be determined rain can travel 50% faster than reach point B 75 kms away from	a car. Both start from point A at the same time
C) D) 2. 161) A t and trai	Remains same Cannot be determined rain can travel 50% faster than reach point B 75 kms away from	C) Rs. 698 spatrate a fascing off in D) Rs. 700 noom off yet bearrast
D) 2. 161) A 1 and trai	Cannot be determined rain can travel 50% faster than reach point B 75 kms away from	D) Rs. 700 noom odt yd bioriasi
). 161) A t and trai	rain can travel 50% faster than reach point B 75 kms away fro	
and trai	reach point B 75 kms away from	a car. Both start from point A at the same tin
and trai	reach point B 75 kms away from	a car. Both start from point A at the same tin
	- last about 12 5 minutes while	m A at the same time. On the way, however, t stopping at the stations. The speed of the car
A)	100 km per hour	stopping at the statement and specific
D)		D) 36
B)	110 km per hour	
C)	120 km per hour	
D)	130 km per hour	
		(67) One of the factors of $X^2 - Z^2 + Y^2 - 2XY$ is A) $X - Y + Z$
. 162) Th	e sum of ages of 5 children born	at the intervals of 3 years each is 50 years. V
is tl	ne age of the youngest child	
A)	4 years	
B)	8 years	
(C)	10 years	
D)	12 years	
		case 11. 9 respectively. What is Anil's press
	24	
		B) Renewed every 10 years
ave	rage age of the grandparents is	ents, two parents and three grandchildren. The following that of the parents is 35 years and that is the average age of the family
		lat is the average age of the family
A)	222/7 years	
B)	322/7 years	ning. Through how may degrees will the hour
C)		69) For a patent to figuralizationultigal protecti
D)	422/7 years	Industrial application
		B) Market potential
	90	
(164) In per	what ratio must a grocer mix very respectively so as to get a m	wo varieties of pulses costing Rs. 15 and Rs. 2 ixture worth Rs. 16.50 per kg.
A)	3:7	
/	7:3	
B)	5:7 A major market sall felor.	70) Which of the following whot patentially in
B) C)		
C)		A) Mathematical processes
	7:5	Mathematical processes Chemical processes Manufacturing processes

W.

Q. 165) A si	um of money at simple interest amounts s. The principal amount is	to Rs. 815 in 3 years and to Rs. 854 in 4
A)	Rs. 650	A) Decreases
	Rs. 690	
B)		
C)		D) Cannot be determined:
D)	Rs. 700	
	n of mode and median of the data 12, 15	5, 11, 13, 18, 11, 13, 12, 13 is
A)	25 few all mil amin amin ad te A min	
B)	26 stopping at the stations. The specific	
C)	31	
D)	36	
D)	30	
		DF 130 km per hour
	yans travels 7 km to the north. Then be-	
	m be turns to his right and mores? I'm	
Q. 167) On	the of the factors of $X^2 - Z^2 + Y^2 - 2XY$ is	
1)	$\mathbf{V} \cdot \mathbf{V} + 7$	
B)	en at the intervals of 3 years Z-Y+X	
C)	X + Y + Z	blide age of the youngest child
D)	Y + Z - X	
2)		
		C) 10 years
n de la	Haragier, et a parce y of the earth's	
	patent can last for how long?	
A)	20 years	
B)	Renewed every 10 years	and the second second
C)	5 years and but about our characters	. 163) A family consists of two grandpar
D)	15 years	
,	but is the average age of the family	
		oh is busies ily consumy NSSA) (D'SSA)
O. 169) Fo	or a patent to benefit from legal protecti	on, it must have
(A)	Industrial application	
B)	Market potential	
C)	Scientific basis	
Di	All of those	
Dr with	All of these	
	Vales of the following explains why 4 sa	
	hich of the following is not patentable u	
		ARRANT DIE ARABARI A BUNIE ANDE
A)		
B)		
C)		
D)	New products	

shir			
A)	Radiation produced by the moon's atmosphere		
B)	The sun's reflection off the moon		()
C)	The luminous substance found on the moon's surface		
D)	Radiation from the Sun that is absorbed by the moon		
O. 185) F.	UNO are situated at consequent of base at retounding		
	natis so C in T.		
A)	30 1		
B)	86° F		()
C)	180° F		
D)	102° F		
			179) Gol
	hat absorbs a portion of the radiation from the sun, pro	eventing it from	m reachi
	earth's surface?		
A)			
B)	Chloroflorocarbon		
C)	Freon		
D)	Charon		
:goitu	hrman of the Drafting Committee of the Indian Constit		
	To Absorbe to the control of the con		
hen	esent ages of Rahul and Anil are in the ratio of 5: 4 res ice, the ratio of their ages will become 11: 9 respectivel	spectively. Thi	ee years
hen age	esent ages of Rahul and Anil are in the ratio of 5: 4 resice, the ratio of their ages will become 11: 9 respectivel in years?	spectively. Thi	ee years
hen age A)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years?	spectively. Thi	ee years
hen age A) B)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years? 24	spectively. Thi y. What is An	ree years il's presei
hen age A)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years?	spectively. Thi y. What is An	ree years il's presei
hen age A) B)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40	spectively. Thi	ree years il's presen
hen age A) B) C)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40	spectively. Thi y. What is An	ee years il's presei
hen age A) B) C)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36	spectively. Thi	ree years il's presen
hen age A) B) C) D)	esent ages of Rahul and Anil are in the ratio of 5: 4 resice, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how ma	spectively. Thing. What is And	ree years il's preser
hen age A) B) C) D)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon	spectively. This y. What is And the second s	ree years il's presen
hen age A) B) C) D)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectively in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180	spectively. This y. What is And a second will be a second with the second will be a second	ree years il's preser
hen age A) B) C) D) Q. 175) A han A) B)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectively in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144	spectively. This y. What is And and a second will be a second with a second will be a secon	ree years il's preser And the hour
hen age A) B) C) D) Q. 175) A han A) B)	esent ages of Rahul and Anil are in the ratio of 5: 4 resice, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150	spectively. This y. What is And the second s	the hour
hen age A) B) C) D) Q. 175) A han A) B)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectively in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144	spectively. This y. What is And the same serious an	ree years il's preser the hour
hen age A) B) C) D) Q. 175) A han A) B)	esent ages of Rahul and Anil are in the ratio of 5: 4 resice, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150	spectively. This y. What is And the second s	the hour
hen age A) B) C) D) Q. 175) A han A) B) C) D)	esent ages of Rahul and Anil are in the ratio of 5: 4 resice, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150 90	spectively. This y. What is And the second s	the hour
hen age A) B) C) D) Q. 175) A han A) B) C) D)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectivel in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150 90 ckets numbered 1 to 20 are mixed up and then a ticket	spectively. This y. What is And and a second a second and	the hour
hen age A) B) C) D) Q. 175) A han A) B) C) D)	clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150 90 ckets numbered 1 to 20 are mixed up and then a ticket that is the probability that the ticket drawn has a number of the rotate o	spectively. This y. What is And and a second a second and	the hour
hen age A) B) C) D) Q. 175) A han A) B) C) D) Q. 176) Ti Will or:	clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150 90 ckets numbered 1 to 20 are mixed up and then a ticket that is the probability that the ticket drawn has a number 5?	spectively. This y. What is And and a second and a second	the hour
hen age A) B) C) D) Q. 175) A har A) B) C) D) Q. 176) Ti Wi or: A)	esent ages of Rahul and Anil are in the ratio of 5: 4 reside, the ratio of their ages will become 11: 9 respectively in years? 24 25 40 36 clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150 90 ckets numbered 1 to 20 are mixed up and then a ticket that is the probability that the ticket drawn has a number 5? 1/2	spectively. This y. What is And and a second a second and	the hour
hen age A) B) C) D) Q. 175) A han A) B) C) D) Q. 176) Ti Will or:	clock shows 8 o'clock in the morning. Through how mand rotate when the clock shows 2 o'clock in the afternoon 180 144 150 90 ckets numbered 1 to 20 are mixed up and then a ticket that is the probability that the ticket drawn has a number of 1/2 9/20	spectively. This y. What is And and a second a second and	the hour

	A fries	Eritrea in?	
A)	Africa		
B)	Asia		
(C)	Australia		
D).	Europe	Radiation from the Sun that is absorbed by the moon	
O 178) Hea	dauarters of U	NO are situated at	
A)	New York, USA	nat is 30°C in °F?	
B)	Haque (The Ne	therlands)	
C)	Geneva		
D)	Paris		
D)	31		
		Singh belongs to which country?	
A)	USA	at absorbs a portion of the radiation from the sun, p	
B)	3	arth's surface?	
C)	India		
D)	UK		
		rman of the Drafting Committee of the Indian Const	
D)	T. B. Sapru	e, the ratio of their ages will become 11:9 respective	
		24 29800 8000 7	
O 181) To	erritorial waters	of India extend up to how many nautical miles?	
Q. 101) 10	A I I I CO I I CO I I CO I C		
Δ1	8	36	
A) R)	8	36	
B)	8 12	36	
B) C)	8 12 16	36	
B) C) D)	8 12 16 20	ock shows 8 o'clock in the marning Through become	
B) C) D)	8 12 16 20	ock shows 8 o'clock in the morning. Through how mare that the clock in the morning of the contract of the cont	
B) C) D)	8 12 16 20 Which of the following the control of the control of the contro	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) V A)	8 12 16 20 Which of the follo	ock shows 8 o'clock in the morning. Through how mare that the clock in the morning of the contract of the cont	titutio
B) C) D) Q. 182) W A) B)	8 12 16 20 Which of the follo 356 368	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) V A) B)	8 12 16 20 Which of the follo 356 368 370	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) W A) B)	8 12 16 20 Which of the follo 356 368 370	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) V A) B) C)	8 12 16 20 Which of the follo 356 368 370 371	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) V A) B) C)	8 12 16 20 Which of the follo 356 368 370 371	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) W A) B) C) D)	8 12 16 20 Which of the follo 356 368 370 371	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) W A) B) C) D) Q. 183) H A	8 12 16 20 Which of the follo 356 368 370 371 Entomology is th) Behaviour of	owing Article deals with the Amendment to our Cons	titutio
B) C) D) Q. 182) V A) B) C) D) Q. 183) F A B	8 12 16 20 Which of the follo 356 368 370 371 Entomology is th Behaviour of	owing Article deals with the Amendment to our Cons	Ticke
B) C) D) Q. 182) V A) B) C) D) Q. 183) H A B C	Which of the follows 356 368 370 371 Entomology is the Behaviour of Insects The origin and	owing Article deals with the Amendment to our Consults of the science that studies f human beings	Ticke
B) C) D) Q. 182) V A) B) C) D) Q. 183) F A B	Which of the follows 356 368 370 371 Entomology is the Behaviour of Insects The origin and	owing Article deals with the Amendment to our Consults of the science that studies f human beings	Oitutit (C) (C) (D) (C) (V) (W) (M) (M) (M) (M) (M) (M) (M) (M) (M) (M

A)	Aluminium	Misappropriate	
B)	Copper		
C)	Lead		
D)	Zinc		
D)	Zine		
O 185) Fat	hometer is used to measu	ension for Q.191 & Q.192 only vall of the tunnel shiver. The master alarmar	
A)		usly, lack yelled down to me that there v	
of all on D)			
Q. 186) Ecc			
A)	Birds	t it deals with	
B)	Cell formation	ivalent to (x)(x)(x)(x) younge gainmals nA	
C)	Relation between organis	ms and their environment	
D)	Tissues		
(c)			
0.105) F	1. 7		
Q. 187) Euc			
A)		hich one of the following reasons would one	
B)		deductive principles of logic as the basis of geo	ometry
C)	Propounded the geometric		
D)	All of the above		
		A catastrophe was imminent	
		The moon was looming close and big	
			1
	e most effective word(s) fi eaningfully complete.	rom the given words to fill in the blank to m	ake the
	wing to in protoc		
Q. 188) I sa	w a of cows in the field		
	Group	Books porrowed for home reading	
A)			
A) B)	Herd		
	Herd Swarm		
B) C)	Swarm		
B)			
B) C)	Swarm		
B) C)	Swarm Company	Use of reference books (PO stands for:	D) 94) WI
B) C) D)	Swarm Company	Use of reference books IPO stands for: World Information and Patents Organization	D) 94) WI
B) C) D)	Swarm Company e ruling party will have to	World Information and Patents Organization World Information and Patents Organization put its own house order	D) 94) W1 A) A) B)
B) C) D) Q. 189) The A)	Swarm Company e ruling party will have to In	World Intellectional Patents Organization World Intellection and Patents Organization World Intellectional Property Organization	D) 94) WI A) A) B) C)
B) C) D)	Swarm Company e ruling party will have to	World Information and Patents Organization World Information and Patents Organization put its own house order	D) 94) W1 A) A) B)

Q. 190) Synonym for EMBEZZLE is ... advoller and to deal water gold market and (extra)

- Misappropriate A)
- Balance B)
- Remunerate C)
- D) Clear

Comprehension for Q.191 & Q.192 only

I felt the wall of the tunnel shiver. The master alarm squealed through my earphones. Almost simultaneously, Jack yelled down to me that there was a warning light on. Fleeting but spectacular sights snapped into and out of view, the snow, the shower of debris, the moon, looming close and big, the dazzling sunshine for once unfiltered by layers of air. The last twelve hours before re-entry were particularly bone-chilling. During this period, I had to go up in to command module. Even after the fiery re-entry splashing down in 81° water in south pacific, we could still see our frosty breath inside the command module.

Q. 191) The word 'Command Module' used twice in the given passage indicates perhaps that it deals with

- An alarming journey A)
- A Commanding situation was rish ban amaintage not would be seen as a second sec B)
- A Journey into outer space
- A frightful battle D)

Q. 192) Which one of the following reasons would one consider as more as possible for the warning lights to be on? Ho estationing avisous to sea sait of noting many of There was a shower of debris.

- Jack was yelling B)
- A catastrophe was imminent C)
- D) The moon was looming close and big Pick out the most effective word(s) from the given words to fill in the blank to make the

Q. 193) 'Fair use' is a term most relevant to:

- Intellectual Property Rights
- Books borrowed for home reading B)
- Copyright C)
- Use of reference books D)

Q. 194) WIPO stands for:

- World Information and Patents Organization A)
- World Intellectual Property Organization and Avada Marythag and the Avada Company of the Company B)
- World International Property Organization C)
- World Information Protection Organization D)

	A)	CRN CONVENTION (1886) is concerned with: Translations
	B)	Copyright
	C)	Patent
	D)	Standards
	distant	e's Name :
Q. 19)6) Th	e invisible web refers to-
	A)	The internet, since we cannot see it
	B)	That part of the internet, which is hidden from the search engines
	C)	The telecommunication signals which are not seen
	D)	The failure in accessing the web pages
Q.19	7) Wł	nich of the following is equivalent to $(x)(x)(x)(x^3)$, for all x?
	A)	4x
	B)	6x
	C)	x^6
	D)	6 4 x^{6} , and where the BLACK LETTERS AS RECEIVED in the space provided with 6
		have to sign in the space on winted in presence of invigilator
Q.19		the standard (x,y) coordinate plane, the graph of $(x + 3)2 + (y + 5)2 = 16$ is a le. What is the circumference of the circle, expressed in coordinate units?
	A)	4π have to be marked on the given cliffs asswer Sheet only in the cines back
	B)	5π
	C)	$_{*}$ 3π
	D)	8π a una cone selection for answer would not carro may mark.
		8π one selection for answer would not carry may mark. The is no negative marking. Attempt ALL questions.
Q.19	9) If tl	ne hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches
Q.19	9) If tl long	ne hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches g, how long is the other leg?
Q.19	9) If tl	ne hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches

Q.200) What are the values of 'a' and 'b', if any, where -a|b+4| > 0?

A) a > 0 and $b \neq -4$

75

D)

- B) a > 0 and $b \neq 4$
- C) a < 0 and $b \ge -4$