

B Ed Science SET A

1	Which of the following is not a Greek Suffix?					
	a) Unique	b) Crisis	c) Victory	d) Monarchy	C	Victory
2	'Extra bonus' is an example of:					
	a) Pleonasm	b) Tautology	c) Euphemism	d) Climax	A	Pleonasm
3	Choose the right word for the following sentence: "Though he has lost his kingdom his __ manners are still visible"					
	a) Ennui	b) Imperious	c) Waffle	d) Edgy	B	Imperious
4	Fill the blank with suitable word for the following statement. Most of the injuries also have contusion and are seen as ___bruise.					
	a) Leper	b) Existing	c) Pariah	d) Livid	D	Livid
5	Choose the word which is closest in meaning to the word ' <i>Bamboozle</i> ':					
	a) Frustrate	b) Cozen	c) Stymie	d) Defend	B	Cozen
6	The word ' <i>Studios</i> ' is not related to:					
	a) Assiduous	b) Sedulous	c) Unflagging	d) Languid	D	Languid
7	The word ' <i>Evident</i> ' refers to:					
	a) Otiose	b) Operose	c) Palpable	d) Nauseous	C	Palpable
8	The toilet water used in the room is superb. In this sentence, <i>toilet water</i> refers to:					
	a) Cologne	b) Yobbish	c) Maladroit	d) Vogue	A	Cologne
9	You can find nice sights when you visit Agra. Here, ' <i>nice</i> ' refers to:					
	a) Apropos	b) Appealing	c) Abstruse	d) Abhorrent	B	Appealing

10	'Nitid' means:					
	a) Ablaze	b) Untrue	c) Acumen	d) Rationality	A	Ablaze
11	Which of the following gas is found the most in composition of the atmosphere?					
	a) H ₂	b) N ₂	c) O ₂	d) CO ₂	b	N ₂
12	Charak was a famous :					
	a) Mathematician	b) Astronomer	c) Writer	d) Physician	d	Physician
13	Changing the name of the state in India can be decided by:					
	a) Prime Minister	b) Parliament	c) State Assembly	d) President	b	Parliament
14	Besides activating the egg, another role of a sperm is to carry:					
	a) mRNA	b) Liposome	c) DNA	d) Endoplasmic reticulum	c	DNA
15	Largest reservoir of Sulphur is:					
	a) Atmosphere	b) Rocks	c) Ocean	d) Lakes	b	Rocks
16	At what time will B catch up with A, if A starts from a place at 11:00 am and travels at a speed of 3.5 kmph, B starts at 1:00 pm and travels with speeds of 1 kmph for 1 hour, 2 kmph for next 1 hour, 3 kmph for next 1 hour and so on?					
17	a) 8:47 pm	b) 6:40 pm	c) 8:42 pm	d) 7:40 pm	d	7:40 pm
	In a class, there are certain number of boys and girls. If 15 girls are absent then number of boys will be twice that of girls. If 45 boys are absent then girls' strength will be 5 times that of boys. Find number of boys actually present.					
	a) 50	b) 55	c) 60	d) 65	a	50
18	In a chess tournament, each of six players will play every other player exactly once. How many matches will be played during the tournament?					
	a) 12	b) 15	c) 30	d) 36	b	15
19	In a group of 15 people, 7 read French, 8 read English while three of them read none of these two. How many of them read both French and English?					
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20	What will be next in series 3, 5, 9, 17, 33?					
	a) 44	b) 49	c) 64	d) 65	d	65
21	Which of the following food grain export has been banned by India recently?					

	a) Rice	b) Wheat	c) Corn	d) Barley	b	Wheat
22	Which of the following country has formally submitted application along with Finland to join NATO membership?					
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23	The first Geological park of India will be built in?					
	a) Madhya Pradesh	b) Gujarat	c) Rajasthan	d) Pune	a	Madhya Pradesh
24	What is the theme of the 'International Day of Forests 2022'?					
	a) Forests and sustainable production and consumption	b) World's terrestrial biodiversity	c) Role of forests in achieving SDGs	d) Trees-pathway to sustainability	a	Forests and sustainable production and consumption
25	Kieron Pollard, who announced retirement from international cricket, is represented from:					
	a) South Africa	b) West Indies	c) England	d) Australia	b	West Indies
26	The purpose of National Education Policy is:					
	a) To give equal opportunity of education to all	b) To review the education	c) Universalization of primary education	d) Vocationalization of education	b	To review the education
27	The idea of Basic Education was propounded by:					
	a) Tagore	b) Kilpatrick	c) Vivekananda	d) Mahatma Gandhi	d	Mahatma Gandhi
28	SITE was launched in:					
	a) 1975	b) 1976	c) 1977	d) 1978	a	1975
29	Which test is carried out to determine the ability of a learner?					
	a) Attitude	b) Scholastic	c) Diagnostic	d) Aptitude	d	Aptitude

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40	Discussion in class will be more effective if the topic of discussion is:					
	a) Stated before the start of the discussion	b) Informed to the students in advance	c) Written on the board without introducing it	d) Not introduced	b	Informed to the students in advance

41	<i>Triticale</i> is the grain developed from cross-breeding of:					
	(a) Wheat & Barley	(b) Wheat & Rye	(c) Rye & Maize	(d) Maize & Barley	b	Wheat & Rye
42	The pollination in plants wherein, the pollens from a flower get transferred to stigma of another flower of the same plant is called as:					
	(a) Geitonogamy	(b) Allogamy	(c) Xenogamy	(d) Autogamy	a	Geitonogamy
43	'Bio-magnification' refers to the process of _____ in the concentration of a xenobiotic compound as it passes through the food-chain.					
	(a) Progressive decrease	(b) Progressive increase	(c) Sharp decrease	(d) Sharp increase	b	Progressive increase
44	DDT stands for:					
	(a) Dichloro-difluoro-trichloroethane	(b) Difluoro-dichloro-trichloroethane	(c) Dichloro-diphenyl-trifluoroethane	(d) Dichloro-diphenyl-trichloroethane	d	Dichloro-diphenyl-trichloroethane

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45	Which of the following is not an example of renewable energy resource?					
	(a) Tidal energy	(b) Geothermal energy	(c) Nuclear energy	(d) Hydropower	c	Nuclear energy
46	In 'Anisocytic stomata' how many epidermal cells surround the stoma?					
	(a) One	(b) Two	(c) Three	(d) Four	c	Three
47	<i>Ocinum sanctum</i> belongs to the family:					
	(a) Lamiaceae	(b) Rubiaceae	(c) Acanthaceae	(d) Solanaceae	a	Lamiaceae
48	'Nastism' refers to:					
	(a) Plants response to stimuli	(b) Plant's increase for food	(c) A kind of plant reproduction	(d) Colour change	a	Plants response to stimuli
49	The 'lapse rate' over the earth surface is:					
	(a) 5.5 °C/ 100 m elevation	(b) 5.5 °C/ 1000 m elevation	(c) 6.5 °C/ 100 m elevation	(d) 6.5 °C/ 1000 m elevation	d	6.5 °C/ 1000 m elevation
50	Which one of the following plants does exhibit better adaptation to high intensity of lights?					
	(a) Sciophytes	(b) Geophytes	(c) Heliophytes	(d) Paleophytes	c	Heliophytes
51	Which of the following is not an Auxin?					
	(a) indole 3-acetic acid	(b) isopentenyladenine	(c) indole 3-butyric acid	(d) phenyl acetic acid	b	Isopentenyladenine
52	Which of the following options does represent the statement written below? 'Growth is controlled not by the total of resources available, but by the					

	<i>resource present in minimum amount.'</i>					
	(a) Leader's law of minimum	(b) Liekie's law of minimum	(c) Liebig's law of minimum	(d) Linder's law of minimum	c	Liebig's law of minimum
53	The Atomic Number of Mercury (Hg) is:					
	a) 80	b) 81	c) 82	d) 83	a	80
54	Rasratnakara book dealing with Chemistry was written by:					
	a) Sundram	b) Aryabhat	c) Nagarjuna	d) Kautilya	c	Nagarjuna
55	J J. Thomson gave model of atom in the year:					
	a) 1987	b) 1997	c) 1898	d) 1897	c	1898
56	Albert Einstein was born in:					
	a) Germany	b) France	c) America	d) Russia	a	Germany
57	The relationship between C_p and C_v for an ideal gas is :					
	a) $C_p + C_v = R$	b) $C_p / C_v = R$	c) $C_p - C_v = R$	d) $C_v - C_p = R$	c	$C_p - C_v = R$
58	Which of the following is not Amorphous?					
	a) Glass	b) Rubber	c) Plastic	d) Iron	d	Iron
59	What is atomic mass of Zinc?					
	a) 61.38 u	b) 62.38 u	c) 65.38 u	d) 64.38 u	c	65.38 u
60	Salicylaldehyde is found in:					
	a) Meadow sweet	b) Beat	c) Vanilla	d) Cinamennon	a	Meadow sweet
61	What is Molecular mass of n-Butane?					
	a) 57	b) 58	c) 59	d) 60	b	58
62	Benzenesulphonyl Chloride ($C_6H_5SO_2Cl$) is also known as :					
	a) Hinsberg's reagent,	b) Sargeant Reagent	c) Doubling reagent	d) Formadyle reagent	a	Hinsberg's reagent
63	Beriberi is caused by the deficiency of:					
	a) Vitamin A	b) Vitamin B	c) Vitamin C	d) Vitamin E	b	Vitamin B
64	Rickets is caused due to deficiency of:					

	a) Vitamin D	b) Vitamin B	c) Vitamin C	d) Vitamin E	a	Vitamin D
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65	A circle touches the x-axis and also touches the circle with centre at (0, 3) and radius 2. The locus of the centre of the circle is:					
	a) A Hyperbola	b) A Parabola	c) A Circle	d) An Ellipse	b	A Parabola
66	If one of the lines given by $6x^2 - xy + 4cy^2 = 0$ is $3x + 4y = 0$, then c is equal to:					
	a) 3	b) -3	c) 1	d) -1	b	-3
67	For the hyperbola $3x^2 - y^2 = 4$, the eccentricity is:					
	a) 1	b) 2	c) -1	d) -2	b	2
68	Distance between two parallel planes $2x + y + 2z = 8$ and $4x + 2y + 4z + 5 = 0$ is:					
	a) $3/2$	b) $5/2$	c) $7/2$	d) $9/2$	c	$7/2$
69	The angle between the planes $2x - y + 3z = 6$ and $x + y + 2z = 7$ is:					
	a) 0°	b) 30°	c) 45°	d) 60°	d	60°
70	The ratio of magnitudes of total surface area to volume of a right circular cone with vertex at origin, having semi-vertical angle equal to 30° and the circular base on the plane $x + y + z = 6$ is:					
	a) 1	b) 2	c) 3	d) 4	c	3
71	The real number x when added to its inverse gives the minimum value of the sum at x equal to:					
	a) 1	b) -1	c) 2	d) -2	a	1
72	Let y be a function of x such that $\log(x + y) = 2xy$, then $y'(0)$ is:					
	a) 0	b) 1	c) $1/2$	d) $3/2$	b	1
73	The area enclosed between the curve $y = \log_e(x + e)$ and the coordinate axes is:					
	a) 1	b) 2	c) 3	d) 4	a	1

74	The area of the region bounded by the curves $y = x-2 $, $x = 2$, $x = 3$ and x-axis is:					
	a) 4	b) 3	c) 2	d) 1	d	1

75	Who has been awarded Nobel Prize for developing Wireless Telegraphy?					
	a) Marconi	b) J.J. Thomson	c) Samuel Morse	d) Kamerlingh Ones	a	Marconi
76	Angstrom is the unit for measuring:					
	a) Length of cables	b) Length of lightwaves	c) Quality of liquid	d) Speed of ships	d	Speed of ships
77	The self-inductance of the motor of an electric fan is 10 H. In order to impart maximum power at 50 Hz, it should be connected to a capacitance of:					
	a) 8 μ F	b) 4 μ F	c) 2 μ F	d) 1 μ F	d	1 μ F
78	A pendulum of length 10 cm is suspended from the roof a vehicle which moves without friction down an inclined plane of Inclination 60° with the horizontal. The time-period of oscillations of the pendulum will be:					
	a) $2\pi/7$ sec	b) 2π sec	c) π sec	d) $\pi/7$ sec	a	$2\pi/7$ sec
79	In forced oscillations, a force of 50 N and frequency of $6/\pi$ Hz is applied to the oscillator having mass of 4 kg. if the angular frequency of the natural oscillations of the system is 13 rad/sec, the amplitude of oscillations is:					
	a) 1.5 m	b) 2.5 m	c) 3.5 m	d) 4.5 m	b	2.5 m
80	The time-period of S.H.O. is 16 seconds starting from mean position; its velocity is 0.4 m/s after 2 seconds. Its amplitude is:					
	a) 0.36 m	b) 1.44m	c) 2.88 m	d) 0.72 m	b	1.44 m
81	Two springs having spring constants of 25 N/m and 16 N/m stretched by forces F_1 and F_2 have equal potential energy. The ratio of the forces F_1 and F_2 is:					
	a) 16/25	b) 25/16	c) 4/5	d) 5/4	d	5/4
82	In a common base amplifier, the phase difference between the input signal voltage and output signal voltage is:					
	a) π	b) $\pi/2$	c) 0	d) $\pi/4$	c	0
83	Average density of the earth is					

	a) does not depend on g	b) complex function of g	c) inversely proportional to g	d) directly proportional to g	a	does not depend on g
84	The time-period of revolution of planet A around the sun is 8 times that of B. The distance of A from the sun is how many times greater than that of B from the sun?					
	a) 2	b) 4	c) 3	d) 6	b	4
85	Consider a car moving on a straight road with speed of 100 m/s. The distance at which car can be stopped is ($\mu k = 0.5$)					
	a) 1000 m	b) 800 m	c) 400 m	d) 100 m	a	1000 m
86	A convex lens is in contact with concave lens. The magnitude of the ratio of their focal lengths is 2/3. Their equivalent focal length is 30 cm. Their individual focal lengths are					
	a) -10, 15	b) -15, 10	c) -75, 50	d) -50, 75	b	-15, 10
87	In a given process of an ideal gas, $dW = 0$ and $dQ < 0$. Then for the gas					
	a) the temperature will decrease	b) the volume will increase	c) the temperature will increase	d) the pressure will remain constant	a	the temperature will decrease

88	Which of the following is not a type of Caudal fins found in fishes?					
	(a) Diphycceral	(b) Heteroceral	(c) Homoceral	(d) Tetraceral	d	Tetraceral
89	The muscular strand that gives a spongy texture to the ventricle of Scoliodon is called as:					
	(a) Chordae tendineae	(b) Chord tendon	(c) Conus arteriosus	(d) Sinus venosus	a	Chordae tendineae
90	Order Cephalodiscida belongs to the class:					
	(a) Enteropneusta	(b) Pterobranchia	(c) Ptychodera	(d) Rhabdopleurida	b	Pterobranchia
91	Which of the following intestinal hormone does cause gall bladder in Bull frog to release bile?					

	(a) Enterogastro ne	(b) Pancreozymi n	(c) Cholecystok inin	(d) Enterocrin in	c	Cholecystokini n	
92	Which of the following is the right developmental sequence of Liver fluke larva?						
	(a) Miracidium → Sporocyst → Redia → Cercaria	(b) Miracidium → Redia → Cercaria → Sporocyst	(c) Sporocyst → Miracidium → Redia → Cercaria	(d) Redia → Cercaria → Miracidium → Sporocyst	a	Miracidium → Sporocyst → Redia → Cercaria	
93	Pseudo-metamerism is a characteristic feature of:						
	(a) Annelids	(b) Platyhelminthes	(c) Nereis	(d) Arthropods	b	Platyhelminthes	
94	The Bio-analytic technique, TLC stands for:						
	(a) Thick Layer Chromatography	(b) Thin Layer Chemistry	(c) Thin Layer Chromatography	(d) Thick Layer Chemistry	c	Thin Layer Chromatography	
95	Which of the following is the right combination of bonding in the nucleic acids?						
	(a) A=T, G=C	(b) A≡T, G≡C	(c) A=T, G≡C	(d) A≡T, G=C	c	A=T, G≡C	
96	The formation of ATP from ADP through electron transport system is called as:						
	(a) Oxidative chlorophyll	(b) Oxidative phosphate	(c) Oxidative Phosphate binding	(d) Oxidative phosphorylation	d	Oxidative phosphorylation	
97	The main characteristics of the basic vertebrate body plan is:						
	(a) Transversal symmetry	(b) Primitive head	(c) Differentiated hands	(d) Tube within tube	d	Tube within tube	
98	The chief metal found in the respiratory pigment 'Haemocyanin' is:						
	(a) Fe	(b) Mn	(c) Cu	(d) Al	c	Cu	
99	Reverse transcription refers to the process of conversion of:						
	(a) Protein → DNA	(b) Protein → RNA	(c) RNA → DNA	(d) DNA → RNA	c	RNA → DNA	

10 0	Scientific name of the King Cobra is:					
	(a) <i>Ophiophagus hannah</i>	(b) <i>Ophiophagus naja</i>	(c) <i>Bungarus fasciatus</i>	(d) <i>Bunarus vipera</i>	a	<i>Ophiophagus hannah</i>

B Ed Science SET B ARRANGED

1	Which of the following gas is found the most in composition of the atmosphere?					
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41	The Atomic Number of Mercury (Hg) is:						
	a) 80	b) 81	c) 82	d) 83	a	80	
42	<i>Rasratnakara</i> book dealing with Chemistry was written by:						
	a) Sundram	b) Aryabhat	c) Nagarjuna	d) Kautilya	c	Nagarjuna	
43	J J. Thomson gave model of atom in the year:						
	a) 1987	b) 1997	c) 1898	d) 1897	c	1898	
44	Albert Einstein was born in:						
	a) Germany	b) France	c) America	d) Russia	a	Germany	
45	The relationship between C_p and C_v for an ideal gas is :						
	a) $C_p + C_v = R$	b) $C_p / C_v = R$	c) $C_p - C_v = R$	d) $C_v - C_p = R$	c	$C_p - C_v = R$	

46	Which of the following is not Amorphous?					
	a) Glass	b) Rubber	c) Plastic	d) Iron	d	Iron
47	What is atomic mass of Zinc?					
	a) 61.38 u	b) 62.38 u	c) 65.38 u	d) 64.38 u	c	65.38 u
48	Salicylaldehyde is found in:					
	a) Meadow sweet	b) Beat	c) Vanilla	d) Cinamennon	a	Meadow sweet
49	What is Molecular mass of n-Butane?					
	a) 57	b) 58	c) 59	d) 60	b	58
50	Benzenesulphonyl Chloride ($C_6H_5SO_2Cl$) is also known as :					
	a) Hinsberg's reagent,	b) Sargeant Reagent	c) Doubling reagent	d) Formadyle reagent	a	Hinsberg's reagent
51	Beriberi is caused by the deficiency of:					
	a) Vitamin A	b) Vitamin B	c) Vitamin C	d) Vitamin E	b	Vitamin B
52	Rickets is caused due to deficiency of:					
	a) Vitamin D	b) Vitamin B	c) Vitamin C	d) Vitamin E	a	Vitamin D

53	<i>Triticale</i> is the grain developed from cross-breeding of:					
	(a) Whe at & Barley	(b) Wheat & Rye	(c) Rye & Maize	(d) Maize & Barley	b	Wheat & Rye
54	The pollination in plants wherein, the pollens from a flower get transferred to stigma of another flower of the same plant is called as:					
	(a) Geito nogamay	(b) Allog amy	(c) Xeno gamy	(d) Autogamy	a	Geitonog amay
55	'Bio-magnification' refers to the process of _____ in the concentration of a xenobiotic compound as it passes through the food-chain.					
	(a) Progr essive decrease	(b) Progr essive increase	(c) Shar p decrease	(d) Sharp increase	b	Progressi ve increase

56	DDT stands for:					
	(a) Dichloro-difluoro-trichloroethane	(b) Difluoro-dichloro-trichloroethane	(c) Dichloro-diphenyl-trifluoroethane	(d) Dichloro-diphenyl-trichloroethane	d	Dichloro-diphenyl-trichloroethane
57	Which of the following is not an example of renewable energy resource?					
	(a) Tidal energy	(b) Geothermal energy	(c) Nuclear energy	(d) Hydropower	c	Nuclear energy
58	In 'Anisocytic stomata' how many epidermal cells surround the stoma?					
	(a) One	(b) Two	(c) Three	(d) Four	c	Three
59	<i>Ocinum sanctum</i> belongs to the family:					
	(a) Lamiaceae	(b) Rubiaceae	(c) Acanthaceae	(d) Solanaceae	a	Lamiaceae
60	'Nastism' refers to:					
	(a) Plant's response to stimuli	(b) Plant's increase for food	(c) A kind of plant reproduction	(d) Colour change	a	Plants response to stimuli
61	The 'lapse rate' over the earth surface is:					
	(a) 5.5 °C/ 100 m elevation	(b) 5.5 °C/ 1000 m elevation	(c) 6.5 °C/ 100 m elevation	(d) 6.5 °C/ 1000 m elevation	d	6.5 °C/ 1000 m elevation
62	Which one of the following plants does exhibit better adaptation to high intensity of lights?					
	(a) Sciophytes	(b) Geophytes	(c) Heliophytes	(d) Paleophytes	c	Heliophytes

63	Which of the following is not an Auxin?					
	(a) indole 3-acetic acid	(b) isopentenyladenine	(c) indole 3-butyric acid	(d) phenyl acetic acid	b	Isopentenyladenine
64	Which of the following options does represent the statement written below? <i>'Growth is controlled not by the total of resources available, but by the resource present in minimum amount.'</i>					
	(a) Le Chatelier's law of minimum	(b) Liebig's law of minimum	(c) Liebig's law of minimum	(d) Linder's law of minimum	c	Liebig's law of minimum

65	Who has been awarded Nobel Prize for developing Wireless Telegraphy?					
	a) Marconi	b) J.J. Thomson	c) Samuel Morse	d) Kamerlingh Onnes	a	Marconi
66	Angstrom is the unit for measuring:					
	a) Length of cables	b) Length of lightwaves	c) Quality of liquid	d) Speed of ships	d	Speed of ships
67	The self-inductance of the motor of an electric fan is 10 H. In order to impart maximum power at 50 Hz, it should be connected to a capacitance of:					
	a) 8 μ F	b) 4 μ F	c) 2 μ F	d) 1 μ F	d	1 μ F
68	A pendulum of length 10 cm is suspended from the roof of a vehicle which moves without friction down an inclined plane of inclination 60° with the horizontal. The time-period of oscillations of the pendulum will be:					
	a) $2\pi/7$ sec	b) 2π sec	c) π sec	d) $\pi/7$ sec	a	$2\pi/7$ sec
69	In forced oscillations, a force of 50 N and frequency of $6/\pi$ Hz is applied to the oscillator having mass of 4 kg. If the angular frequency of the natural oscillations of the system is 13 rad/sec, the amplitude of oscillations is:					
	a) 1.5 m	b) 2.5 m	c) 3.5 m	d) 4.5 m	b	2.5 m
70	The time-period of S.H.O. is 16 seconds starting from mean position; its velocity is 0.4 m/s after 2 seconds. Its amplitude is:					

	a) 0.36 m	b) 1.44m	c) 2.88 m	d) 0.72 m	b	1.44 m
71	Two springs having spring constants of 25 N/m and 16 N/m stretched by forces F ₁ and F ₂ have equal potential energy. The ratio of the forces F ₁ and F ₂ is:					
	a) 16/25	b) 25/16	c) 4/5	d) 5/4	d	5/4
72	In a common base amplifier, the phase difference between the input signal voltage and output signal voltage is:					
	a) π	b) $\pi/2$	c) 0	d) $\pi/4$	c	0
73	Average density of the earth is					
	a) does not depend on g	b) complex function of g	c) inversely proportional to g	d) directly proportional to g	a	does not depend on g
74	The time-period of revolution of planet A around the sun is 8 times that of B. The distance of A from the sun is how many times greater than that of B from the sun?					
	a) 2	b) 4	c) 3	d) 6	b	4

75	Two springs having spring constants of 25 N/m and 16 N/m stretched by forces F ₁ and F ₂ have equal potential energy. The ratio of the forces F ₁ and F ₂ is:				Repeat question of Q71	
	a) 16/25	b) 25/16	c) 4/5	d) 5/4	d	5/4
76	In a common base amplifier, the phase difference between the input signal voltage and output signal voltage is:				Repeat question of Q72	
	a) π	b) $\pi/2$	c) 0	d) $\pi/4$	c	0
77	Average density of the earth is					
	a) does not depend on g	b) complex function of g	c) inversely proportional to g	d) directly proportional to g	a	does not depend on g
78	The time-period of revolution of planet A around the sun is 8 times that of B. The distance of A from the sun is how many times greater than that of B from the sun?					
	a) 2	b) 4	c) 3	d) 6	b	4
79	Consider a car moving on a straight road with speed of 100 m/s. The distance at which car can be stopped is ($\mu_k = 0.5$)					

	a) 1000 m	b) 800 m	c) 400 m	d) 100 m	a	1000 m
80	A convex lens is in contact with concave lens. The magnitude of the ratio of their focal lengths is $\frac{2}{3}$. Their equivalent focal length is 30 cm. Their individual focal lengths are					
	a) -10, 15	b) -15, 10	c) -75, 50	d) -50, 75	b	-15, 10
81	In a given process of an ideal gas, $dW = 0$ and $dQ < 0$. Then for the gas					
	a) the temperature will decrease	b) the volume will increase	c) the temperature will increase	d) the pressure will remain constant	a	the temperature will decrease
82	Who has been for developing Wireless Telegraphy?			Repeat question of Q65		
	a) Marconi	b) J.J. Thomson	c) Samuel Morse	d) Kamerlingh Onnes	a	Marconi
83	Angstrom is the unit for measuring:			Repeat question of Q66		
	a) Length of cables	b) Length of light waves	c) Quality of liquid	d) Speed of ships	d	Speed of ships
84	The self-inductance of the motor of an electric fan is 10 H. In order to impart maximum power at 50 Hz, it should be connected to a capacitance of:					
	a) $8 \mu\text{F}$	b) $4 \mu\text{F}$	c) $2 \mu\text{F}$	d) $1 \mu\text{F}$	d	$1 \mu\text{F}$
85	A pendulum of length 10 cm is suspended from the roof a vehicle which moves without friction down an inclined plane of Inclination 60° with the horizontal. The time-period of oscillations of the pendulum will be:					
	a) $\frac{2\pi}{7}$ sec	b) 2π sec	c) π sec	d) $\frac{\pi}{7}$ sec	a	$\frac{2\pi}{7}$ sec
86	In forced oscillations, a force of 50 N and frequency of $\frac{6}{\pi}$ Hz is applied to the oscillator having mass of 4 kg. if the angular frequency of the natural oscillations of the system is 13 rad/sec, the amplitude of oscillations is:					
	a) 1.5 m	b) 2.5 m	c) 3.5 m	d) 4.5 m	b	2.5 m
87	The time-period of S.H.O. is 16 seconds starting from mean position; its velocity is 0.4 m/s after 2 seconds. Its amplitude is:					
	a) 0.36 m	b) 1.44m	c) 2.88 m	d) 0.72 m	b	1.44 m

88	Which of the following is the right combination of bonding in the nucleic acids?					
	(a) A=T, G=C	(b) A≡T, G≡C	(c) A=T, G≡C	(d) A≡T, G=C	c	A=T, G≡C
89	The formation of ATP from ADP through electron transport system is called as:					
	(a) Oxidative chlorophyll	(b) Oxidative phosphate	(c) Oxidative Phosphate binding	(d) Oxidative phosphorylation	d	Oxidative phosphorylation
90	The main characteristics of the basic vertebrate body plan is:					
	(a) Transversal symmetry	(b) Primitive head	(c) Differentiated hands	(d) Tube within tube	d	Tube within tube
91	The chief metal found in the respiratory pigment 'Haemocyanin' is:					
	(a) Fe	(b) Mn	(c) Cu	(d) Al	c	Cu
92	Reverse transcription refers to the process of conversion of:					
	(a) Protein → DNA	(b) Protein → RNA	(c) RNA → DNA	(d) DNA → RNA	c	RNA → DNA
93	Scientific name of the King Cobra is:					
	(a) <i>Ophiophagus hannah</i>	(b) <i>Ophiophagus naja</i>	(c) <i>Bungarus fasciatus</i>	(d) <i>Bunarus vipera</i>	a	<i>Ophiophagus hannah</i>
94	Which of the following is not a type of Caudal fins found in fishes?					
	(a) Diphycceral	(b) Heteroceral	(c) Homoceral	(d) Tetraceral	d	Tetraceral
95	The muscular strand that gives a spongy texture to the ventricle of Scoliodon is called as:					
	(a) Chordae tendineae	(b) Chord tendon	(c) Conus arteriosus	(d) Sinus venosus	a	Chordae tendineae
96	Order Cephalodiscida belongs to the class:					
	(a) Enteropneusta	(b) Pterobranchia	(c) Ptychodera	(d) Rhabdopleurida	b	Pterobranchia

97	Which of the following intestinal hormone does cause gall bladder in Bull frog to release bile?					
	(a) Enterogastro ne	(b) Pancreozymi n	(c) Cholecystok inin	(d) Enterocrinin	c	Cholecystokini n
98	Which of the following is the right developmental sequence of Liver fluke larva?					
	(a) Miracidium → Sporocyst → Redia → Cercaria	(b) Miracidium → Redia → Cercaria →Sporocyst	(c) Sporocyst →Miracidiu m → Redia → Cercaria	(d) Redia → Cercaria →Miracidiu m → Sporocyst	a	Miracidium → Sporocyst → Redia → Cercaria
99	Pseudo-metamerism is a characteristic feature of:					
	(a) Annelids	(b) Platyhelminthes	(c) Nereis	(d) Arthropods	b	Platyhelminthe s
10 0	The Bio-analytic technique, TLC stands for:					
	(a) Thick Layer Chromatogr aphy	(b) Thin Layer Chemistry	(c) Thin Layer Chromatogr aphy	(d) Thick Layer Chemistry	c	Thin Layer Chromatograp hy

The repeat question issue will be decided by Grievance Committee to maintain parity with candidates with Question Booklet set A