Test Booklet No. _____

This booklet consists of 100 questions and 12 printed pages.

RGUCET/2024/__/_

Series | **B**

Series **B**

RGUCET 2024
Common Entrance Test, 2024

BACHELOR OF EDUCATION (B. Ed.) (Science Stream)

Full Marks: 100   **Time: 2 Hours**

Roll No.

Day and Date of Examination: _____

Signature of Invigilator(s) _____

Signature of Candidate _____

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	The study of Heavenly Bodies is Known as _____.				Answer option **(d)**
	a)Astrophysics	b) Astronautics	c) Astrology	d) Astronomy	**Astronomy**
2	Which day is celebrated as World Diabetes Day?				Answer option **(c)**
	a) July 11	b)June 5	c)November14	d) 22 April	**November 14**
3	Which of the following statements are True? A. Sundarban National Park is in West Bengal B. Keoladeo National Park is in Rajasthan C. Kangchanjangha National Park is in Sikkim D. Periyar National Park is in Kerala				Answer option **(d)**
	a) A, B & C only Correct	b)Only B, C & D are Correct	c) A, B & D are only Correct	d) All are Correct	**All are Correct**
4	Which one of the following vitamins helps in blood clotting?				Answer option **(d)**
	a)Vitamin A	b)Vitamin C	c) Vitamin D	d) Vitamin K	**Vitamin K**

5	**Match Column "A"** **Match Column "B"**				Answer option **(b)**
	A. God of Small Things i. Kiran Desai B. Satanic Verses ii. Arvind Adiga C. The Inheritance Loss iii. Arundhati Roy D. The White Tiger iv. Salman Rushdie				
	a) A-iii, B-iv, C-ii, D-i	b)A-iii, B-iv, C-i, D-ii	c) A-iii, B-i, C-iv, D-ii	d) A-iii, B-ii, C-iv, D-i	**A-iii, B-iv, C-I, D-ii**
6	**Match column "A"** **Match column "B"**				Answer option **(c)**
	A.Gujarat i. Mohan Yadav B. Madhya Pradesh ii. Bhajan Lal Sharma C.Chhattisgarh iii. Bhupendrabhai Patel D. Rajasthan iv. Vishnu Deo Sai				
	a) A-ii, B-iii, C-iv, D-i	b) A-iv, B-iii, C-i, D-ii	c)A-iii, B-i, C-iv, D-ii	d) A-iii, B-iv, C-i, D-ii	**A-iii, B-i, C-iv, D-ii**
7	A man is standing near a clock tower. He moves southwards to reach a point 'P', 8 km from the clock tower. From 'P' he turns right, then moves 6 km to reach a point 'Q'. From 'Q' he moves to right again and reaches a point 'R', 10 km from 'Q'. From 'R' he turns right and reaches a spot 'S', 6 km from 'R'. How far and in which direction, he is from the clock tower?				Answer option **(b)**
	a) 2 km South	b) 2 km North	c) 18 Km South	d) 4 km South	**2 km North**
8	Find out the odd one				Answer option **(b)**
	a) Red	b) White	c) Yellow	d) Blue	**White**
9	Akash is a man and Shital is a woman. Shital's mother is daughter of Akash's mother's sister. How is Shital related to Akash?				Answer option **(b)**

	a)Sister	b)Niece	c)Grand Daughter	d)Daughter	**Niece**
10	Observe the words carefully: Hopeful, helpful, healthy, healing, heating If we arrange these words in dictionary order, which one of these will be at the third place?				Answer option **(a)**
	a)heating	b)helpful	c)healthy	d)healing	**heating**
11	In a certain code language 'PRINCESS' is written as 'ECINRPTU'. How will you write 'SPICEJET' in the same code language?				Answer option **(d)**
	a) EJICSPFV	b)JECIPSGU	c)JEICPSGV	d)JEICPSFV	**JEICPSFV**
12	Which Indian expatriate made history as the first Indian space tourist?				Answer option **(b)**
	a) Vinod Khosla	b)Gopi Thotakura	c)Sam Pitroda	d)Kalpana Chowla	**Gopi Thotakura**
13	Who won the Best Actress award in the 69th Filmfare Award 2024?				Answer option **(c)**
	a) Aishorya Rai	b)Jhanvi Kapoor	c)Alia Bhatt	d)Shraddha Kapoor	**Alia Bhatt**
14	Who is the current president of Indian National Congress?				Answer option **(b)**
	a) Rahul Gandhi	b) Mallikarjun Kharge	c) Priyanka Gandhi	d) Sonia Gandhi	**Mallikarjun Kharge**
15	Who won the 2024 Australian open tennis men's single title?				Answer option **(d)**
	a) Novak Djokovic	b) Rafael Nadal	c) Daniil Medvedev	d)Jannick Sinner	**Jannick Sinner**
16	'Queer fish' means:				**b**
	a)known person	b)strange person	c)suspected Person	d)wise person	**Strange person**
17	Which one of the following is the suitable option for the phrase 'Might and main':				**c**
	a)Interest	b) Devotion	c)Enthusiasm	d)Main support	**Enthusiasm**
18	Which of the following sentence is not meaningful in true sense? A. Unbearable odour was emanating from the room. B. The toilet water used in the rooms is not very expensive. C. The tension on his face was palpable. D. He is vogue about vague.				**d**
	a)A only	b) Both B&C	c) Both C&D	d) D only	**He is vogue about vague.**
19	Match the following words in terms of similarity: 	A. Execrable	i. Esoteric
B. Opportune	ii. Dictum					**a**

	C. Gnome		iii. Nauseous		
	D. Ridding		iv. Relevant		
	a) A-iii, B-iv, C-i, D-ii	b) A-ii, B-iii, C-iv, D-i	c) A-i, B-iv, C-iii, D-ii	d) A-iii, B-i, C-iv, D-ii	**A-iii, B-iv, C-i, D-ii**

20	The word '*Skillful*' is not similar to:				**b**
	a)Adroit	b)Amorphous	c)Deft	d)Adept	**Amorphous**

21	Which one of the following statement is true? A. Integrated circuit or chips are made up of Gold B. Integrated circuit or chips are made up of Copper C. Integrated circuit or chips are made up of Silicon D. Integrated circuit or chips are made up of Aluminum				Answer option **(b)**
	a) A & B	b) C only	c) D only	d) B & D	**C only**

22	A: Assertion: Central Processing Unit is often called the brain of computer B: Reason: A CPU controls all the internal and external devices and performs arithmetic and logic operations				Answer option **(a)**
	a) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A)	b) Both Assertion (A) and Reason (R) are the true but Reason (R) is not a correct explanation of Assertion (A)	c)Assertion (A) is true and Reason (R) is false.	d) Assertion (A) is false and Reason (R) is true	**Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A)**

23	Matching column "A" Matching column "B"				Answer option **(b)**
	A. Select All		i. Ctrl+S		
	B. Cut		ii. Ctrl+A		
	C. Save		iii. Ctrl+P		
	D. Print		iv. Ctrl+X		
	a)A-iii, B-iv, C-ii, D-i	b) A-ii, B-iv, C-i, D-iii	c) A-ii, B-iv, C-iii, D-i	d) A-iii, B-i, C-ii, D-iv	**A-ii, B-iv, C-i, D-iii**

24	Tablet PC is a type of :				Answer option **(a)**
	a)microcomputer	b)supercomputer	c)minicomputer	d)mainframe computer	**Microcomputer**

25	Which of the following statement is not false A Palmtop computer is known as tablet PC B Special purpose computer is used in automatic aircraft landing C Pratyush supercomputer is dedicated for weather forecasting D A central computer that holds collections of data and pragramms for many PCs, workstations and other computers is known as Server				Answer option **(d)**
	a) A & B only	b) B & D only	c) A & C only	d) All of the above	**All of the above**

26	Computers that are portable and convenient to use for the users who travel, are known as				Answer option **(d)**

	a)minicomputer	b)supercomputer	c) mainframe computer	d)laptops	**laptops**

27	Matching column "A" Matching column "B"				Answer option **(b)**
	A. Input device		i. Chrome		
	B. Output device		ii. MS-office		
	C. Software		iii. Mouse		
	D. Web browser		iv. Monitor		
	a)A-ii, B-iii, C-i, D-iv	b) A-iii, B-iv, C-ii, D-i	c) A-i, B-ii, C-iv, D-iii	d) A-iv, B-iii, C-ii, D-i	**A-iii, B-iv, C-ii, D-i**

28	First super computer developed in India is:				Answer option **(a)**
	a) PARAM 8000	b) PRAGYAN	c)PARAM ISHAN	d)EPRAM	**PARAM 8000**

29	Component of the computer you can see and touch is:				Answer option **(c)**
	a) Software	b) Programme	c)Hardware	d)Storage	**Hardware**

30	Caps Lock and Num Lock keys are called:				Answer option **(b)**
	a) function Keys	b) toggle Keys	c) modifier Keys	d) control Keys	**Toggle Keys**

31	The 10th term of the AP 2, 7, 12 , ... is				Answer option **(d)**
	a) 20	b) 32	c) 49	d) 47	**47**

32	Find the order of the Differential Equation $7\frac{d^2y}{dx^2}-6\frac{dy}{dx}=1$				Answer option **(c)**
	a) 1	b) 4	c) 2	d) 3	**2**

33	Match the Column "A" Match the Column "B" A. Tan A ……………………..(i) 1/Sin A B. Tan 30 ……………………(ii) Sin A / Cos A C. Sec A……………………..(iii) 1 / Cos A D. Cosec A …………………..(iv) 1/ √3				Answer option **(a)**
	a) A-ii, B-iv, C-iii, D-i	b) A –iv, B-ii, C-iii, D-i	c) A-iii, B-I, C-ii, D- iv	d) A-iii, B-iv, C- ii, D-i	**A-ii, B-iv, C-iii, D-i**

34	What is the degree of first order differential equation, given by $(\frac{dy}{dx})^{1.5}=(x\cos x x^2+\sin x \sqrt{3})$?				Answer option **(c)**
	a) 1.5	b) 2.5	c) 1	d) 3.5	**Answer 1**

35	$(n + 1)^2 – 1$ is divisible by 8, if n is :				Answer option **(b)**
	a) an odd integer	b) an even integer	c) a natural number	d) an integer	**an even integer**

36	**Match Column "A" Match Column "B"** A. (x + 1) (x – 1)……………… (i) $x^2 + 2x + 1$ B. (x + 1) (x + 1)……………..(ii) $x^2 - 1$ C. (x + 2) (x + 1)…………......(iii) $x^2 + x - 2$ D. (x + 2) (x – 1)……………...(iv) $x^2 +3 x + 2$				Answer option **(a)**

a) A-ii, B–i, C–iv, D-iii	b) A–iv, B-ii, C– iii, D-i	c) A-iii, B-iv, C-i, D-ii	d) A-ii, B-iv, C–iii, D - i	**A-ii, B–i, C–iv, D-iii**

37	The pair of equations x=a and y=b graphically representing lines which are :				Answer option **(b)**
	a) coincident	b) intersecting at (a, b)	c) parallel	d) intersecting at (b, a)	**intersecting at (a, b)**

38	**Match Column "A"** **Match Column "B"**				

A. A circle has a number of tangents equal to	i. Rhombus
B. A tangent intersects the circle at	ii. Secant
C. parallelogram circumscribes a circle	iii. One point
D. line intersecting a circle in two points	iv. Infinite

a) A–iv, B–iii, C-i, D-ii	b) A-ii, B-iv, C–i, D-iii	c)A-iii, B–ii, C–iv, D-i	d) A-iv, B–i, C–iii, D-ii	**A–iv, B–iii, C-i, D-ii**

39	The points (–4, 0), (4, 0), (0, 3) are the vertices of a				Answer option **(b)**
	a) right triangle	b) isosceles triangle	c) equilateral triangle	d) scalene triangle	**isosceles triangle**

40	Euclid's division lemma states that for two positive integers a and b, there exist unique integers q and r such that a=bq+r, where r must satisfy				Answer option **(c)**
	a) $1 < r < b$	b) $0 < r \leq b$	c) $0 \leq r < b$	d) $0 < r < b$	**$0 \leq r < b$**

41	Which one of the following statement is wrong? A. Faraday is associated with Cathode ray discharge tubes. B. R.A. Millikan is associated with Oil Drop Experiment. C. J J Thomson measured the ratio of electrical charge. D. Chadwick contributed towards radioactive substances.				**(d)**
	a) A&B	b) B&C	c) C&A	d) D	**Chadwick contributed towards radioactive substances.**

42	The most electronegative element among the following is:				**(c)**
	a) bromine	b)sodium	c)fluorine	d)oxygen	**fluorine**

43	Which of the following postulates is incorrect in deriving B. E. T. equation				**(a)**
	(a) The adsorbed layer is unimolecular in thickness	(b) Langmuir's assumptions apply to each layer	(c)the characteristics of adsorption is applicable to	(d) after first layer, the heat of adsorption is equal to the heat of	**The adsorbed layer is unimolecular in thickness**

			only the first layer	condensation of vapor	
44	Helmholtz model represents ………………….. model				**(b)**
	(a) diffused layer	(b) fixed layer	(c) half diffused and half fixed layer	(d) none of the above	**fixed layer**
45	The fundamental equation which can be used to calculate energy change in the nuclear reaction is………………				**(a)**
	(a) $E=mc^2$	(b)$E=gmc^2$	(c) $E=mc$	(d) $E=gc$	**$E=mc^2$**
46	NRRI(National Rice Research Institute) is Present in:				Answer option **(c)**
	a)Coimbatore	b)Kolkata	c) Cuttack	d) Raipur	**Cuttack**
47	If Raman shift is negative then Raman spectrum will produce				**(b)**
	(a)Stoke's line	(b) Antistoke's line	(c) Rayleigh line	(d) both Stoke's and Antistoke's line	**Antistoke's line**
48	Lightning was discovered by:				**c**
	a) Ohm	b) Thomson	c) Franklin	d) Faraday	**Franklin**
49	Generation, Propagation and Detection of electromagnetic waves are the basis of:				**a**
	a) Radio and Television	b) Lasers and X-ray	c) Reactors	d) Computers	**Radio and Television**
50	A passenger getting down from a moving bus, falls in the direction of the emotion of the bus. This is an example of:				**d**
	a) Inertia of rest	b) Second law of motion	c) Third law of motion	d) Inertia of motion	**Inertia of motion**
51	The perimeter of a triangle with vertices (0,4) and (0, 0) and (3,0) is :				Answer option **(d)**
	a)7	b) 5	c) 10	d) 12	**12**
52	Sadhika bought scooty for Rs. 75000. She wants to sell it by making 20% profit. What is the selling price of bike?				Answer option **(c)**
	a) Rs 70000	b)Rs 80000	c) Rs 90000	d) None of the above	**Rs 90000**
53	If two tangents inclined at an angle 60° are drawn to a circle of radius 3 cm, then length of each tangent is equal to				Answer option **(d)**
	a) (3/2)√3 cm	b) 6 cm	c) 3 cm	d) 3√3 cm	**3√3 cm**
54	If you are aware of the SI units of the time then calculate exact numbers of seconds in 48 hours.				**(b)**
	a)162800 s	b)172800 s	c)185800 s	d)182800 s	**172800 s**
55	Match the SI Units of the following.				**(c)**

A. Thermodynamic Temperature	i. Mol
B. Luminous Intensity	ii. Kelvin

	C. Substance		iii. Candela		
	D. Electric Current		iv. Ampere		
	a) A-iii, B-iv, C-i, D-ii	b) A-iv, B-i, C-ii, D-iii	c)A-ii, B-iii, C-i, D-iv	d) A-iv, B-ii, C-iii, D-i	**A-ii, B-iii, C-i, D--iv**
56	What is the name according to IUPAC nomenclature of the atomic number 110?				**(a)**
	a) Ununnillium	b) Ununnunnium	c) Ununbium	d) Ununtrium	**Ununnillium**
57	What is the nature of bond between two carbon atoms in ethyne molecule (C_2H_2)?				**(c)**
	a) Single Covalent Bond	b) Double Covalent Bond	c) Triple Covalent Bond	d) None of the above	**Triple Covalent Bond**
58	How many π bonds are present in the following molecule $CH_2=C=CHCH_3$?				**(a)**
	a) 2	b) 3	c) 4	d) 5	**2**
59	Match the Atomic Number of the following Elements:				
	A. Barium		i. 4		
	B. Berkelium		ii. 56		**(c)**
	C. Beryllium		iii. 97		
	D. Bohrium		iv. 107		
	a) A-iii, B-iv, C-i, D-ii	b) A-iv, B-i, C-ii, D-iii	c)A-ii, B-iii, C-i, D-iv	d) A-iv, B-ii, C-i, D-iii	**A-ii, B-iii, C-i, D--iv**
60	Langmuir isotherm holds good at low pressure but fails at :				**(b)**
	a) low temperature	b) high temperature	c) intermediate pressure	d) none of these	**high temperature**
61	Choose the correct option: A: Gravitational force is always attractive in nature, while electromagnetic force can be attractive or repulsive. R: Electromagnetic force dominates terrestrial phenomena.				**c**
	a) A & R are true and R is the correct explanation of A	b) A & R are true and R is not the correct explanation of A	c) A is true but R is false	d) Both A & R are false	**A is true but R is false**
62	Match the column				
	A. Conductance		i. gray		
	B. Magnetic Induction		ii. lumen		**a**
	C. Absorbed Dose		iii. tesla		
	D. Luminous flux		iv. siemens		
	a) A-iv, B-iii, C-i, D-ii	b) A-iv, B-i, C-iii, D-ii	c) A-iii, B-i, C-ii, D-iv	d) A-i, B-iii, C-iv, D-ii	**A-iv, B-iii, C-i, D-ii**
63	One second is defined as:				**d**
	a) 1650763.73 periods of krypton clock	b)652189.6 periods of krypton clock	c)1650763.73 periods of cesium clock	d) 9192631770	**9192631770 periods of cesium clock**

					periods of cesium clock	
64	Choose the correct option: A: There is no cause-and-effect relation between action and reaction. R: Action and reaction forces are not simultaneous forces.					**c**
	a) A & R are true and R is the correct explanation of A	b) A & R are true and R is not the correct explanation of A	c) A is true but R is false	d) Both A & R are false		**A is true but R is false**
65	A body is being raised to a height 'h' from the surface of the earth. What is the sign of work of work done by applied force and gravitational force respectively?					**b**
	a) Positive, Positive	b) Positive, Negative	c) Negative, Negative	d) Negative, Positive		**Positive, Negative**
66	A body is falling freely under the action of gravity alone in vacuum. Which of the following quantities remain constant during the fall?					**c**
	a) Kinetic Energy	b) Potential Energy	c) Total Mechanical Energy	d) Total Linear Momentum		**Total Mechanical Energy**
67	Which one of the following is not a state function?					**d**
	a) Temperature	b) Entropy	c) Pressure	d) Work		**Work**
68	The Zeroth Law of Thermodynamics leads to the concept of:					**d**
	a) Internal Energy	b) Heat Content	c) Pressure	d) Temperature		**Temperature**
69	Which one of the following is intensive property?					**c**
	a) Volume	b) Mass	c) Refractive Index	d) Weight		**Refractive Index**
70	A real gas behaves like an ideal gas if its:					**d**
	a) Both pressure and temperature are high	b) Both pressure and temperature are low	c)Pressure is high and temperature is low	d) Pressure is low and temperature is high		**Pressure is low and temperature is high**
71	Who is called 'Father of Genetics'?					Answer option **(c)**
	a) Morgan	b)Darwin	c)Mendel	d) De Vries		**Mendel**
72	Enzymes belongs to which group of biological Macromolecules?					Answer option **(d)**
	a) Minerals	b)Carbohydrates	c) Lipids	d) Protein		d) **Protein**
73	Endemic plants are:					Answer option **(d)**
	a)found in alpine region	b)gregarious in habit	c)cosmopolitan in distribution	d) restricted to a certain area		**restricted to a certain area**
74	The lower layer of the oceanic zone where the penetration of light is not possible is usually known as :					Answer option **(b)**

	a) photic Zone	b) aphotic Zone	c) disphotic Zone	d) euphotic Zone	**Aphotic Zone**
75	Study of Fungi is known as:				Answer option **(b)**
	a)Acarology	b)Mycology	c)Phycology	d)Limnology	**Mycology**
76	Klinefelter Syndrome has:				Answer option **(c)**
	a)66+XXY	b)45+XY	c)44+XXY	d)44+XO	**44+XXY**
77	This concept "Ontogeny recapitulates Phylogeny" is expressed by :				Answer option **(c)**
	a)Mutation Theory	b)Natural Selection Theory	c)Recapitulation Theory	d)None of these above	**Recapitulation Theory**
78	Connecting link between reptile and bird is:				Answer option **(b)**
	a) Dimetrodon	b) Sphenodon	c)Archeopteryx	d)Ostrich	**Archeopteryx**
79	Study of birds is known as:				Answer option **(c)**
	a)Herpetology	b)Batrachology	c) Ornithology	d) Araneology	**Ornithology**
80	ELISA stands for :				Answer option **(b)**
	a) Enzyme linked immunodeficient Sorbent Assay	b) Enzyme linked immunosorbent Assay	c) Enzyme linked immunosorbent Essay	d) Enzyme linked immunity scientific Assay	**Enzyme linked immunosorbent Assay**
81	Which one is not a bacterial disease?				Answer option **(a)**
	a) AIDS	b)Tuberculosis	c) Typhoid	d) Pneumonia	**AIDS**
82	An association of two species where one is benefitted and the other remains unaffected is called:				Answer option **(b)**
	a) symbiosis	b)commensalism	c) predation	d) parasitism	**commensalism**
83	The animals of which of the following phyla are also known as flatworms?				Answer option **(c)**
	a) Mollusca	b) Annelida	c)Platyhelminthes	d)Aschelminths	**Platyhelminthes**
84	Which one of the following organelle is called the "suicidal bags" of the cell?				Answer option **(d)**
	a) Ribosome	b)Mitochondria	c) Cytoplasm	d) Lysosome	**Lysosome**
85	Which among the following blood group is called as a Universal donor?				Answer option **(c)**
	a) A	b) AB	c) O	d) B+	**O**
86	Match the excretory organs listed under column I with the animals given under column II. Choose the answer which gives the correct combination of alphabets of the two columns.				Answer option **(b)**

A. Kidneys	i. Round worms
B. Malpighian Tubules	ii. Leech
C. Protonephridia	iii. Cockroach
D. Nephridia	iv. Shark

	a)A-(i),C-(iv), B-(iii), D-(ii)	b)A-(iv),C-(i), B-(iii), D-(ii)	c)A-(iv),C-(i), B-(ii), D-(iii)	d)A-(iii),C-(i), B-(iv), D-(ii)	**A-(iv),C-(i), B-(iii), D-(ii)**
87	Which one is not a vestigial organ in man?				Answer option **(c)**
	a)Vermiform appendix	b)Nictitating membrane	c)Epiglottis	d)Muscle of Ear pinnacle	**Epiglottis**
88	Which of the following statements are true? A. Human liver is rectangular in shape. B. Human erythrocytes lack Mitochondria. C. Salivary amylase is secreted from stomach. D.The adult human skeleton is made up of 206 bones.				Answer option **(b)**
	a) A & B	b) B & D	c) C & D	d) All of the above	**B & D**
89	Computer size was very large in:				Answer option **(a)**
	a) first generation	b)second generation	c)third generation	d)fourth generation	**First generation**
90	Chip is a common nickname for a(an)				Answer option **(b)**
	a)Transistor	b) Integrated circuit	c)resistor	d)semiconductor	**Integrated circuit**
91	If the frequency of human heart is 1.25Hz, the number of heart beats in one minute is:				**b**
	a) 65	b) 75	c) 85	d) 95	**75**
92	Who is known as father of Botany?				Answer option **(d)**
	a)Lamarck	b) Cuvier	c)John Ray	d)Theophrastus	**Theophrastus**
93	Which type of Pollination found in maize?				Answer option **(b)**
	a) Entomophily	b)Anemophily	c)Zoophily	d)Hydrophily	**Anemophily**
94	Nucleic acids occur in: A. Viruses B. Bacteria C. Mammals D. All forms of Life Choose the correct statement / statements				Answer option **(c)**
	a) A & B only	b) B only	c) D only	d) B & C only	**D Only**
95	This question consists of two statements, namely, Assertion (A) and Reason (R). For selecting the correct answer, use the following code: A: Guard cells are the cells which surround each stoma and present on the upper and lower epidermis of the leaf. R: Their main function is to open and close the stomata, help regulate transpiration, and protect the stomatal pore.				Answer option **(a)**

a) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A)	b)Both Assertion (A) and Reason (R) are the true but Reason (R) is not a correct explanation of Assertion (A)	c) Assertion (A) is true and Reason (R) is false.	d)Assertion (A) is false and Reason (R) is true	**Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A)**

96	Match the part of plant given in Column I with their function in Column II.				Answer option **(b)**
	A. Flower		i. Anchorage		
	B. Leaf		ii. Bears Branches		
	C. Stem		iii. Reproduction		
	D. Root		iv. Photosynthesis		
	a) A-(i), B-(ii), C-(iii), D-(iv)	b) A-(iii), B-(iv), C-(ii), D-(i)	c) A-(ii), B-(i), C-(iv), D-(iii)	d) A-(i), B-(iii), C-(ii), D-(iv)	**A-(iii), B-(iv), C-(ii), D-(i)**
97	Cleistogamy occurs in:				Answer option **(d)**
	a)Pisum Sativum	b)Oryza Sativa	c)Allium Sepa	d)Commelina Bengalensis	**Commelina Bengalensis**
98	Which of the following statements are true? A. The leaves of C_3 plants do not show Kranz anatomy. B. In C_3 plants photosynthesis process takes place only when the stomata are open. C. Approximately 95% of the shrubs, trees, and plants are C_3 plants. D. C_4 plants use the Hatch-Slack pathway during the dark reaction.				Answer option **(d)**
	a) Only A & B are true	b) Only A & C are true	c) only A, C & D are true	d) All of the above	**All of the above**
99	The term gymnosperm is derived from two Greek words, *gymnos* and *sperma*. What do these words mean respectively?				Answer option **(b)**
	a)Naked and Seed	b)Fruit and Seed	c)Covered and Seed	d)Flower and Seed	**Naked and Seed**
100	**Match Column "A"** **Match Column "B"**				Answer option **(b)**
	A. Chlorophyl		i. Heterotrophs		
	B. Cuscuta		ii. Pitcher plant		
	C. Insects		iii. Parasite		
	D. Animals		iv. Leaf		
	a) A-(i), B-(ii), C-(iii), D-(iv)	b) A-(iv), B-(iii), C-(ii), D-(i)	c) A-(ii), B-(i), C-(iv), D-(iii)	d) A-(i), B-(iii), C-(ii), D-(iv)	**A-(iv), B-(iii), C-(ii), D-(i)**