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SCEW(Main) - 2017 - Set - 5 Technical Paper

PAPER - II

08210

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SCEN(Main) - 2017 - Set - 5 Technical Paper

PAPER - II

Time : 1 2 hours

Full Marks: 120

Each question carries 1 mark.

Answer all questions, choosing the correct one from the alternatives suggested and darken the appropriate circle using BLUE or BLACK BALL POINT PEN.

There will be negative marking @ 0.25 for each wrong answer.

- 1. What will be the maturity amount of an investment of Rs. 25,000 invested for 3 years at varying rates of compound interest of 6%, 8% and 10% in the successive years?
 - (1) Rs. 28,620
 - (2) Rs. 29,150
 - (3) Rs. 29,700
 - (4) Rs. 30,178
 - (5) Rs. 31,482
- 2. A shopkeeper sales an article for Rs. 5,400 at a loss of 10%. But he gains 15% by selling another article. If, on the whole, he neither loses nor gains, find the cost price of the second article:
 - (1) Rs. 3,600
 - (2) Rs. 4,000
 - (3) Rs. 4,500
 - (4) Rs. 5,400
 - (5) Rs. 6,000

- 3. A retailer purchases pure sulphuric acid at the rate of Rs. 240 per litre. He adds 20% water in it and sales the mixture to earn a profit of 25%. What is his selling price of the mixture per litre?
 - (1) Rs. 240
 - (2) Rs. 250
 - (3) Rs. 288
 - (4) Rs. 300
 - (5) Rs. 360
 - The capital invested by three partners

 -Ashok, Moonis and Chand are p, q
 and r respectively. If 4p = 6q = 10r
 and total profit in a month amounts
 to Rs. 27,900, find Chand's share in
 the profit:
 - (1) Rs. 5,400
 - (2) Rs. 9,000
 - (3) Rs. 13,500
 - (4) Rs. 14,500
 - (5) Rs. 18,500

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(3)





- 5. Shankar starts a business with a capital of Rs. 28,000. After five months Bibhas joins him as the partner. If after one year the profit is shared between the two in the ratio of 2:3, what is the capital contribution of Bibhas?
 - (1) Rs. 60,000
 - (2) Rs. 64,000
 - (3) Rs. 68,000
 - (4) Rs. 72,000
 - (5) Rs. 76,000
- 6. In two different alloys the ratio of tin and lead are 2:3 and 5:3 respectively. In what ratio are the two alloys to be mixed such that the content of tin in the new alloy becomes 60 percent?
 - (1) 1:6
 - (2) 1:8
 - (3) 6:1
 - (4) 7:1
 - (5) 8:1
- 7. An airline allows a free baggage allowance to each passenger, beyond which charges at a fixed rate. Amit and Tushar had to pay Rs. 1,100 together for their excess baggage. Had each of them carried double the luggage, they would have paid Rs. 2,000 and Rs. 1,000 respectively.

What is the amount paid by Amit for his excess baggage?

- (1) Rs. 500
- (2) Rs. 600
- (3) Rs. 700
- (4) Rs. 800
- (5) Rs. 900
- 8. The number (7⁶ 6⁶) is exactly divisible by four of the following numbers. Which is the other number?
 - (1) 13
 - (2) 43
 - (3) 127
 - (4) 559
 - (5) 686
- 9. Find the value of 8x + 3y, if 3x + 2y =

25 and
$$\frac{y}{x+y} = \frac{8}{11}$$
:

- (1) 48
- (2) 55
- (3) 60
- (4) 64
- (5) 73
- 10. If the sum of two numbers is 5 and the sum of their cubes is 35, find the sum of squares of the two numbers :
 - (1) 5
 - (2) 10
 - (3) 13
 - (4) 17
 - (5) 20





11. If $a - \frac{1}{a} = 8$, find the value of

$$a^2 - \frac{1}{a^2}$$
:

(1)
$$\pm \sqrt{17}$$

(2)
$$\pm 2\sqrt{17}$$

(3)
$$\pm 8\sqrt{17}$$

(4)
$$\pm 10\sqrt{17}$$

(5)
$$\pm 16\sqrt{17}$$

12. If the numerator of a fraction is decreased by 1, its value becomes

 $\frac{2}{3}$. However, if the denominator is increased by 5 the fraction becomes

 $\frac{1}{2}$. What is the fraction?

(1)
$$\frac{5}{7}$$

(2)
$$\frac{6}{7}$$

(3)
$$\frac{7}{8}$$

(4)
$$\frac{7}{9}$$

(5)
$$\frac{8}{9}$$

13. Find the value of x and y, if x + y = 2xy

and
$$x - y = 6xy$$
:

(1)
$$-\frac{1}{4}$$
 and $\frac{1}{2}$

(2)
$$-\frac{1}{2}$$
 and $\frac{1}{4}$

(3)
$$-\frac{1}{2}$$
 and $\frac{1}{3}$

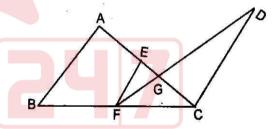
(4)
$$\frac{1}{2}$$
 and $\frac{1}{4}$

(5)
$$\frac{1}{4}$$
 and $\frac{1}{2}$

14. If ABCDE is a regular pentagon, find the ∠DBE :

$$(2)$$
 48°

15. In the following figure AB, EF and CD are parallel to each other.



The lengths of AB, EG, GC and DC are 7.5 cm, 2.5 cm, 5 cm and 9 cm respectively. Calculate the length of AC.

- (1) 4.5 cm
- (2) 7.5 cm
- (3) 9.0·cm
 - (4) 12.5 cm
 - (5) 15 cm

(5)





- 16. The sides of a triangular field are in the ratio of 5:3:4 and its perimeter is 240 m. Find the altitude of the triangle corresponding to the largest side:
 - (1) 32 m
 - (2) 40 m
 - (3) 44 m
 - (4) 48 m
 - (5) 52 m
- 17. A triangular plot ABC is located on a map drawn to a scale of 1 : 25,000. If ∠ABC = 90°, and the map distance of AB and AC are 8 cm and 10 cm respectively, what is the actual area of the plot?
 - (1) 2.0 km²
 - (2) 2.5 km^2
 - (3) 3.0 km²
 - (4) 3.5 km²
 - (5) 4.0 km²
- 18. ABCD is a quadrilateral in which the angle ABD = 90° and BCD is an equilateral triangle. If the sides CD and DA measure 24 cm and 26 cm respectively, what is the area of the quadrilateral? (take $\sqrt{3}$ = 1.732)
 - (1) 249.41 cm²
 - (2) 369.41 cm²
 - (3) 489.41 cm²
 - (4) 498.82 cm²
 - (5) 738.82 cm²
- 19. The area of a parallelogram ABCD is 900 square centimeters. AP and AQ are perpendiculars on BC and CD respectively. If lengths of AP and

AQ are 24 cm and 30 cm respectively, find the area of the quadrilateral APCQ:

- (1) 112.5 cm²
- (2) 216.0 cm²
- (3) 234.0 cm²
- (4) 337.5 cm²
- (5) 346.5 cm²
- 20. Two circles with radius of 4.5 cm and 12.5 cm respectively touch externally. If a tangent, common to both the circles, touches them at points P and Q respectively, find the length of PQ:
 - (1) 12.5 cm
 - (2) 14.0 cm
 - (3) 15.0 cm
 - (4) 17.0 cm
 - (5) 21.5 cm
- 21. In a right angled triangle ABC, the ∠ABC = 90°. If the sides AC and BC are 13 cm and 5 cm respectively, find sec²C - tan²C :
 - (1) $\frac{25}{169}$
 - (2) $\frac{25}{119}$
 - (3) . 1
 - (4) $\frac{169}{119}$
 - (5) $\frac{119}{25}$





22. Find the angles A and B if $2\cos(A+B)$ = $2\sin(A-B) = 1$:

2.01.11 D) 221

(1) 15° and 45°

(2) 45° and 0°

(3) 45° and 15°

(4) 60° and 30°

(5) 90° and 30°

23. If $A + B + C = 180^{\circ}$ and $\cos A = (\cos B)$. $\cos C$, find the value of (tanB, tanC):

(1)

(2) $\frac{1}{\sqrt{3}}$

(3) $\sqrt{3}$

(4) 2

(5) 2√3

24. Evaluate:

$$\left(\frac{\cos 47^{0}}{\sin 43^{0}}\right)^{2} + \left(\frac{\sin 72^{0}}{\cos 18^{0}}\right)^{2} + 2\cos^{2}45^{\circ}$$

(1) 0

(2) 1

(3) 2

(4) 3

(5) 4

25. The angle of inclination of the top of a telephone tower from the top of a 10 metre tall building is 45°, while the angle of declination from the top of the same building to the base of the tower is 30° . Find the height of the building. ((take $\sqrt{3} = 1.732$)

(1) 15.77 m

(2) 17.32 m

(3) 26.32 m

(4) 27.32 m

(5) 31.55 m

26. The mean of 15 observations is 200.
If one observation is excluded, the mean becomes 198. Find the value of the excluded observation:

(1) 222

(2) 224

(3) 226

(4) 228

(5) 230

27. Which of the following is not true for the following data?

11, 12, 7, 3, 2, 8, 4, 10, 7, 6

(1) Sum total = 70

(2) Range = 11

(3) Mode = 7

(4) Median = 7

(5) Mean = 7

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(7)



- 28. The natural numbers from 1 to 25 are split into 5 groups of five each. If the average of the medians of the five groups is M, what are the smallest and largest possible values of M?
 - (1) 7 and 19
 - (2) 8 and 18
 - (3) 9 and 17
 - (4) 10 and 16
 - (5) 11 and 15
- 29. The mean of six distinct positive numbers is 33 and the median of three largest of these numbers is 43.

 What is the difference between the highest and the lowest possible medians of the six numbers?
 - (1) 35
 - (2) 36
 - (3) 38
 - (4) 39
 - (5) 41
- 30. The following table gives the distribution of normal annual rainfall in 100 places in Odisha. What is the normal annual rainfall in the state?

Rainfall Class (in cm)	No. of Places
70-90	10
90-110	20
110-130	40
130 – 150	20
150-170	10

(1) 110 cm

- (2) 115 cm
- (3) 120 cm
- (4) 125 cm
- (5) 130 cm
- 31. What is the sum of the two numbers 11101 and 10111 expressed in binary format?
 - (1) 100001
 - (2) 100100
 - (3) 110011
 - (4) 110101
 - (5) 110101
- 32. Find the remainder of $\frac{K}{12}$, if $K = 1421 \times 1423 \times 1425$:
 - (1) 0
 - (2) 1
 - (3) 3
 - (4) 6
 - (5) 9
- 33. If N = 46 × 47 × 48 × 49 ×51 × 52 × 53 × 54, what will be the last digit of the number N?
 - (1) 3
 - (2) 4
 - (3) 5
 - (4) 6
 - (5) 7



- 34. Two alarm clocks ring their alarms at intervals of 48 seconds and 50 seconds respectively. If both beep together at 6.30 AM then at what time next are they going to beep together again?
 - (1) 6.35 AM
 - (2) 6.40 AM
 - (3) 6.45 AM
 - (4) 6.50 AM
 - (5) 6.55 AM
- 35. The sum of four two digit consecutive odd numbers, when divided by 10, yields a perfect square. Which of the following can possibly be the smallest of the four numbers?
 - (1) 19
 - (2) 37
 - (3) 51
 - (4) 73
 - (5) 93
- 36. An orchard owner picked some oranges and tried to put those into three types boxes of capacity of 32, 40 and 72 respectively. As he tried different boxes he found remainders of 10, 18 and 50 respectively. What is the minimum number of oranges he would have collected?
 - (1) 1418
 - (2) 1420

- (3) 1440
- (4) 1422
- (5) 1518
- 37. The HCF of two three digit numbers is 17, while their LCM is 714. What is the ratio between the two numbers?
 - (1) 4:7
 - (2) 5:6
 - (3) 5:7
 - (4) 6:7
 - (5) 7:8
- 38. Simplify the following equation to find the value of x.

Equation :
$$x = \sqrt{6 \times 10^2 + 2 \times 10^1 + 5 \times 10^0}$$

- (1) 24.49
- (2) 24.90
- (3) 25
- (4) 25.45
- (5) 26
- 39. Evaluate: $\frac{\sqrt{0.01+\sqrt{0.0225}}}{0.1\times0.4}$
 - (1) 0.1
 - (2) 1
 - (3) 10
 - (4) 100
 - (5) 1000





40. Find the value of:

√47√47√47√47.....

- (1) ∞
- (2) 47
- (3) 23.5
- (4) 6.86
- $(5) \sqrt{47}$
- 41. Find the value of $\sqrt{\frac{19}{7}}$ upto 3 decimal places. (take $\sqrt{133}$ = 11.53)
 - (1) 0.623
 - (2) 1.024
 - (3) 1.496
 - (4) 1.647
 - (5) 2.714
- 42. Which of the following pairs of numbers and their squares is not correctly matched?
 - (1) 132 17424
 - (2) 133 17689
 - (3) 134 17956
 - (4) 135 18225
 - (5) 136 18498
- 43. What is the smallest number by which the number 222264 is to be divided

such that the quotient becomes a perfect cube?

- (1) 2
- (2) 3
- (3) 4
- (4) 5
- (5) 6
- 14. A weaver had 5100 towels of same size, which he tried to pack in N number of boxes containing N number of towels in each. What is the minimum number of towels he has to weave more to do so?
 - (1) 59
 - (2) 84
 - (3) 98
 - (4) 118
 - (5) 229
- 45. Suresh spends 40 percent of his monthly salary on food and 25 percent of the balance amount on clothings and miscellaneous expenses. If he pays 55 percent of the balance amount towards house rent and finally saves Rs. 3,645 in a month, then what is his monthly salary?
 - (1) Rs. 15,000
 - (2) Rs. 16,000
 - (3) Rs. 17,000
 - (4) Rs. 18,000
 - (5) Rs. 20,000

Contd.



- 46. The ratio between a two digit number and the number obtained by reversing its digits is 4:7. What is the sum of all such possible pairs of numbers?
 - (1) 99
 - (2) 120
 - (3) 132
 - (4) 210
 - (5) 330
- 47. Two varieties of Mung dal are priced at Rs. 64 and Rs. 80 per kg respectively. What is the ratio in which the two are to be mixed such that the price per kg. will be Rs. 70.00?
 - (1) 4:5
 - (2) 5:3
 - (3) 5:4
 - (4) 6:5
 - (5) 7:4
- 48. What is the average of the numbers from 324 to 366?
 - (1) 344
 - (2) 345
 - (3) 346
 - (4) 347
 - (5) 348
- 49. There were five continuous days of rainfall in Bhubaneswar. The average rainfall of the first four days and the

last four days was 40 cm and 45 cm respectively. What is the difference between the minimum possible and maximum possible average rainfall of all the five days?

- (1) 2.0 cm
- (2) 2.5 cm
- (3) 3.0 cm
- (4) 3.5 cm
- (5) 4.0 cm
- 50. An amount is deposited in a bank of 10% rate of interest, compounded annually. It at the end of three years the interest amont is Rs. 2,648, then find the amount invested:
 - (1) Rs. 6,500
 - (2) Rs. 8,000
 - (3) Rs. 8,827
 - (4) Rs. 10,000
 - (5) Rs. 12,610
- 51. What type of vision defect occurs when the focal length of the lens of the eye is decreased?
 - (1) Hypermetropia
 - (2) Presbyopia
 - (3) Astigmatism
 - (4) Hypermetropia and Astigmatism
 - (5) Myopia

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(11)





- 52. For which property of a material, it is used as a fuse wire in an electric current?
 - (1) High melting point
 - (2) High ductility
 - (3) Low resistivity
 - (4) Low melting point
 - (5) Low conductivity
- 53. Out of the following, which phenomenon of light do occur in the formation of the rainbow?
 - (1) Dispersion, Scattering and Refraction
 - (2) Dispersion, Diffraction and Scattering
 - (3) Refraction, Reflection and Dispersion
 - (4) Reflection, Scattering and Diffraction
 - (5) Reflection, Scattering and Dispersion
- 54. From among the following media in which the speed of the light is the least?
 - (1) Water
 - (2) loe

- (3) Alcohol
- (4) Kerosene
- (5) None of these
- 55. Which is a required tool for producing electric current?
 - (1) Galvanometer
 - (2) Generator
 - (3) Ammeter
 - (4) Motor
 - (5) Anemometer
- 56. Which planet is nearest to the sun basing on distance?
 - (1) Venus
 - (2) Earth
 - (3) Mercury
 - (4) Mars
 - (5) Jupiter
- 57. Whose unit is Calvin?
 - (1) Distance
 - (2) Temperature
 - (3) Weight
 - (4) Volume
 - (5) Pressure

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(12)

Contd.





58.	How	much electricity is generated		(3)	Reverberation	
	from one solar cell?			(4)	Echo	
	(1)	0.3W		(5)	Sonic boom	
	(2)	0.5W	62.	Who	ose refractive index is the	
	(3)) 0.7W		maximum?		
ė	(4)	0.9W		(1)	Ruby	
	(5)	1.1W		(2)	Saffire	
59 .	Due	to what phenomenon of light, the		(3)	Diamond	
	clea	r sky looks blue ?		(4)	Crown glass	
	(1)	Refraction		(5)	Water	
	(2)	Dispersion	60	33	at does this plactrical pign	
	(3)	Reflection	63.	What does this electrical sign		
	(4)	Scattering		_(;)— represent?	
	(5)	Diffraction		(1)	Electric bulb	
60.	'VA' i	is the unit of which one?		(2)	Ammeter	
J O.		Electric resistance		(3)	Connected wire	
	(1)			(4)	Switch on	
	(2)	Electric energy		(5)	Resistance	
	(3)	Electric power	64.	Wh	o discovered 'Electron	
	(4)	Electric current	04.			
	(5)	Electric transmission		(1)	roscope'?	
61.	Which is the type of application				Robert Hooke	
	procedure in Ultrasonography and				Zernicke	
	Echocardiography?			(3)	Knoll and Ruska	
	(1)	Infrasonic		(4)	Aristotle	
	(2)	Ultrasound		(5)	Newton	
KY-2E/18 (13)			(Turn over)			



65.	Sele	ect the scientist connected with		(3)	Acceleration
	disc	overy of X-rays?	(4)	Torque	
	(1)	Einstein	69 .	(5)	Volume
	(2)	Rontgen		Whi	ch is not a scalar quantity?
	(3)	Faraday		(1)	Mass
	(4)	Archimedes		(2)	Speed
	(5)	Dalton		(3)	Volume
66.	Whi	/hich_law / principle signifies that		(4)	Power
	good	good absorbers are good emitters?			Velocity
	(1)	Newton's	70.	Whi	ch one in the laboratory does the
	(2)	Archimedes'			e work as that of a regulator in
	(3)	Pascal's			electric fan ?
	(4)	Kepler's		(1)	Rheostat
	(5)	Kirchhoff's		(2)	Galvanometer
67.	\\/bir	ch is the best conductor of heat?		(3) (4)	Ammeter Voltmeter
٠,٠				School	150x 15
	(1)	Ebonite	71.	(5)	Speedometer
	(2)	Rubber		Wha	at is the ratio in volume between
	(3)	Silver		cond	centrated hydrochloric acid and
•	(4)	Glass		cond	centrated nitric acid respectively
		e		in aqua regia ?	
	(5)	Air		(1)	2:3
68.	Whic	ch of the following is related to		(2)	1:3
	Mas	s × Velocity?	(3)	3:1	
	(1)	Momentum		(4)	3:2
	(2)	Force .		(5)	1:1
KY -	-2F/1	8 (14	Y		Contd



72.	Which fur	nctional group	's formula is
	¢=0?	80. 5	*

- (1) Halo
- (2) Carboxyl
- (3) Aldehyde
- (4) Alcohol
- (5) Ketone
- 73. Which type of material is silicon?
 - (1) Metal
 - (2) Non-metal
 - (3) Metalloid
 - (4) Compound
 - (5) Mixture
- 74. Which is the main acidic component part of vinegar?
 - (1) Lactic
 - (2) Pyruvic
 - (3) Citric
 - (4) Formic
 - (5) Acetic
- 75. Which is used as food preservative?
 - (1) Aspartate
 - (2) Saccharine
 - (3) Sodium benzoate

- (4) Sucralose
- (5) Alitame
- 76. Which type of glass is used for spectacles as it absorbs UV rays?
 - (1) Jena glass
 - (2) Crook's glass
 - (3) Soft glass
 - (4) Hard glass
 - (5) Glass laminates
- 77. Which type of chemical reaction is the following ?

$$\mathsf{MnO}_2 + 4\mathsf{HCl} \rightarrow \mathsf{MnCl}_2 + 2\mathsf{H}_2\mathsf{O} + \mathsf{Cl}_2$$

- (1) Neutralisation
- (2) Displacement
- (3) Combination
- (4) Double Displacement
- (5) Oxidation and Reduction
- 78. How much less pH of rain water is called 'Acid rain'?
 - (1) 5.6
 - (2) 6.0
 - (3) 7.0
 - (4) 7.5
 - (5) 7.8

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(15)



79.	Which	is	the	formula	of	propane
	molecu	le '	?			

- (1) CH₄
- (2) C₂H₆
- (3) C₃H₈
- (4) C₄H₁₀
- (5) C₅H₁₂

80. Which is used for the treatment of indigestion?

- (1) Antibiotics
- (2) Antacid
- (3) Analgesic
- (4) Antipyretic
- (5) Antiseptic

81. Which is unrelated and separate?

- (1) Turmeric
- (2) Phenolpthalein
- (3) Red cabbage leaf
- (4) pH paper
- (5) Methyl orange

- 82. Which one is based on the principle of Archimedes?
 - (1) Manometer
 - (2) Auxanometer
 - (3) Odometer
 - (4) Lactometer
 - (5) Colorimeter

83. Which is used in external radiation therapy for cancer treatment?

- (1) lodine 131
- (2) Carbon 14.19.00
- (3) Phosphorus 32
- (4) Cobalt⁶⁰
- (5) Sodium²⁴
- 84. What is called the reaction in which oxidation and reduction occurs simultaneously?
 - (1) Redox
 - (2) Exothermic
 - (3) Endothermic
 - (4) Coupling
 - (5) Catalysis

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(16)

Contd.



85.	Whic	th gas is mainly present in CNG?		(3)	Sublimation	
30	(1)	Gobar		(4)	Distillation	
	(2)			(5)	Condensation	
	(3)			Whi	ch is an example of Aerosol?	
	(4)	Petroleum		(1)	Jelly	
	(5)	Metha ne		(2)	Foam	
8 6.	Whic	th element has been placed in		(3)	Butter	
	the modern periodic table in place of			(4)	Sponge	
F 8	Eka-aluminium?			(5)	Fog	
	(1)	Sc		(0)		
	(2)	Ga	90.	Forv	which, chemical reactions need	
	(3)	Ge		ener	gy?	
	(4)	Si ,		(1)	Entropy	
	(5)	Be		(2)	Oxidation	
87.	Which pair of elements are liquid at			(3)	Enthalpy	
	room temperature ?				# - 2 0	
	(1)	Calcium and Magnesium		(4)	Activation	
*	(2)	Sodium and Potassium		(5)	Reduction	
2	(3)	Argon and Neon		Aga	inst which foreign organism,	
	(4)	Copper and Zinc		antibiotic is effective?		
	(5)	Mercury and Bromine	:6	(1)	Virus	
88.	Which method is mostly used for the				Bacteria	
	separation and purification of solid substances?			(3)	Fungal infection	
		20		(4)	Protozoa	
	(1)	Crystallization		2.020	The state of the s	
	(2)	Evaporation		(5)	Helminthes	
KY-	2E/1	8 (17)	j.,		(Turn over)	





92. Which is secreted during allergic High Vitamin-C (3)reaction? High Vitamin-B (4)(1) Allergens (5)High Vitamin-A Histamines (2)From which plant, quinine is obtained? 96. **Immunoglobulins** (3)**Tamarind** (1) (4) **Pyrogens** (2)Lemon (5)Hormones (3)Cinchona 93. Which is the term used for (4) Neem 'Programmed cell death'? Bryophyllum Cell lysis (1) 97. Which leaves are used for flavouring (2) **Autonomy** the food? (3)**Phagocytosis** Cabbage (1) (4)**Hemimixis** Spinach (2)**Apoptosis** (5)Lettuce (3)Which one is antioxidant vitamin? (4)Banana (1) Vitamin D Coriander (5)(2)Vitamin E Which revolution is related to 98. (3)Vitamin B excessive production of crop and (4) Vitamin K agricultural product? Vitamin C (5)(1) Blue White 95. Whose content is more in 'Golden (2)rice'? (3)Green High Lysine (1) Yellow (4) (2)**High Methionine** (5)Red KY-2E/18 (18)Contd.



- 99. National Rice Research Institute (NRRI) is situated in which of the following?
 - (1) Delhi
 - (2) Lucknow
 - (3) Mysore
 - (4) Coimbatore
 - (5) Cuttack
- 100. Which type of crops are Potato,
 Sugarcane and Colocasia?
 - (1) Stem crop
 - (2) Fruit crop
 - (3) Root crop
 - (4) Leaf crop
 - (5) Cereal crop
- 101. Croton and Jasmine belong to which type of ornamental plant?
 - (1) Shrubs
 - (2) Climbers
 - (3) Bulbous
 - (4) Indoor
 - (5) Tree
- 102. Which is an indigenous mushroom growing in September to November in India?
 - (1) Winter
 - (2) Shutake

- (3) White button
- (4) Paddy straw
- (5) Oyster
- 103. What is the technique for growing plants in nutrient medium?
 - (1) Hydrology
 - (2) Hydrophonics
 - (3) Hydroponics
 - (4) Hydrosere
 - (5) Terrarium
- 104. What is called the production and marketing of vegetables?
 - (1) Floriculture
 - (2) Arboriculture
 - (3) Olericulture
 - (4) Oenology
 - (5) Pomology
- 105. Which instrument is more useful for digging more bulky and lifting heavy items in small scale farms on a regular basis?
 - (1) Buckhoe
 - (2) Front-end loader
 - (3) Wagon
 - (4) Farm truck
 - (5) ATV/UTV

KY-2E/18

(19)





(3) Charles Darwin 106. The characters of which two are seen in Archaeopteryx? (4) James Watson Fishes and Amphibia (1) A. I. Oparin Amphibia and Mammal (2)110. Which can be used to measure root Reptile and Mammal (3)pressure? (4) Bird and Mammal Thermometer (1) Reptile and Bird (5) Speedometer (2)107. Which is not a part of the flower? Sphygmomanometer (3)(1) Calyx Manometer (4)(2)Corolla Generator (5) (3)Callus 111. Which is the main component of Androecium (4)gobar gas? Gynoecium (5)(1) Carbon dioxide 108. Which one does maintain ionic Methane (2)balance of the body? (3)Hydrogen (1) **Vitamins** (4) Nitrogen Carbohydrates (2)(5) Oxygen **Proteins** (3) 112. When was National Biodiversity Law enacted in our country? **Minerals** (4)1927 (1) Fats (5)1988 (2)109. Who is known as the 'Father of (3)1972 Genetics'? 2004 George Mendel (4) (1) (5)1991 T. H. Morgan (2)KY - 2E/18 (20)Contd.



KY-2E/18



(Turn over)

113. What are required for light reaction 116. Generally, what is the number of of photosynthesis? chromosomes in endosperm? Chlorophyll, Water, Light (1) n (2)Chlorophyll, Carbon dioxide, 2n . (2)Water (3)3n (3) Chlorophyti, Carbon dioxide. Oxygen (4) 4n (4) Chlorophyll, Light, Oxygen (5) 5n (5)Chlorophyll, Light, Carbon 117. Who proposed 'Every person has a dioxide specific blood group'? 114. How do bacteria generally propa-(1) Harvey gate? (2)Mendel (1) Binary fission Darwin (3)(2)Budding (3) **Sporulation** (4) Landsteiner (4)**Fertilization** Lamarck (5)Fragmentation (5)118. What is the name of the virus present 115. Testes of which animal are found in RNA of AIDS? inside the body? (1) Vitro virus (1) Tiger Retro virus (2)(2)Lion Pox virus (3)(3)Monkey Elephant (4) Tobacco virus (4)(5)Horse (5)Influence virus

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119. Which is a carnivorous plant?

- (1) Rafflesia
- (2) Pitcher
- (3) Cactus
- (4) Dodder
- (5) Mistletoe

- 120. Which is the first transgenic fish that was used as food?
 - (1) Andi
 - (2) Dolly
 - (3) Salmon
 - (4) Polly
 - (5) Molly







Space for Rough Work







Space for Rough Work

