Test Booklet Code

F6

NEET 2023

Questions, Answer Key & Solutions

Date: 07 May, 2023 | TIME: (02:00 PM to 05:20 PM)

Duration: 200 minutes (03 Hrs. 20 Min.) | Max. Marks: 720

Important Instructions:

- The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on OFFICE Copy carefully with **blue/black** ball point pen only.
- 2. The test is of 3 hours 20 minutes duration and Test Booklet contains 200 multiple-choice questions (four options with a single correct answer) from Chemistry, Physics and Biology (Botany and Zoology). 50 questions in each subject are divided into two Sections (A and B) as per details given below:
 - (a) Section A shall consist of 35 (Thirty-five) Questions in each subject (Questions Nos 1 to 35, 51 to 85, 101 to 135 and 151 to 185). All questions are compulsory.
 - (b) Section B shall consist of 15 (Fifteen) questions in each subject (Question Nos 36 to 50, 86 to 100, 136 to 150 and 186 to 200). In Section B, a candidate needs to attempt any 10 (Ten) questions out of 15 (Fifteen) in each subject.

Candidates are advised to read all 15 questions in each subject of Section B before they start attempting the question paper. In the event of a candidate attempting more than ten questions, the first ten questions answered by the candidate shall be evaluated.

- 3. Each question carries 4 marks. For each correct response, the candidate will get 4 marks. For each incorrect response, one mark will be deducted from the total scores. The maximum marks are 720.
- 4. Use Blue/Black Ball Point Pen only for writing particulars on this page/marking responses on Answer Sheet.
- 5. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- 6. On completion of the test, the candidate **must hand over the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator** before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them.
- 7. The CODE for this Booklet is **F6**. Make sure that the CODE printed on the Original Copy of the Answer Sheet is the same as that on this Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
- 8. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Test Booklet/Answer Sheet.
- 9. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
- 10. Each candidate must show on-demand his/her Admit Card to the Invigilator.
- 11. No candidate, without special permission of the centre Superintendent or Invigilator, would leave his/her seat.
- 12. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign (with time) the Attendance Sheet twice. Cases, where a candidate has not signed the Attendance Sheet second time, will be deemed not to have handed over the Answer Sheet and dealt with as an Unfair Means case.
- 13. Use of Electronic/ Manual Calculator is prohibited.

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- 14. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Room/Hall. All cases of unfair means will be dealt with as per the Rules and Regulations of this examination.
- 15. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 16. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet.
- 17. Compensatory time of one hour five minutes will be provided for the examination of three hours and 20 minutes duration, whether such candidate (having a physical limitation to write) uses the facility of scribe or not.

In case of any ambiguity प्रश्नों के अनुवाद	v in translation of any question, English version shall be treated as final. : में किसी अस्पष्टता की स्थिति में, अंग्रेजी संस्करण को ही अन्तिम माना जायेगा।	esonsnos
Name of the Candidate (in Capital letters): _		
Roll Number: in figures: Name of Examination Centre (in Capital letter	in words:	esorence
Candidate's Signature:	Invigilator's Signature:	
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PART: PHYSICS

- 1. In a series LCR circuit, the inductance L is 10mH, capacitance C is 1μ F and resistance R is 100Ω . The frequency at which resonance occurs is: [P-AC-D]_E

 - (1) 15.9 kHz
 - (2) 1.59 rad/s
 - (3) 1.59 kHz
 - (4) 15.9 rad/s

(3)Ans.

Sol.
$$f = \frac{1}{2\pi\sqrt{LC}}$$

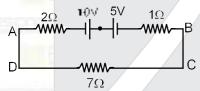
= 1.59Hz

$$= \frac{1}{2 \times 3.14 \sqrt{10 \times 10^{-3} \times 10^{-6}}}$$

$$= \frac{10^{4}}{6.28}$$

$$= \frac{10}{6.28} \times 10^{3}$$

2. The magnitude and direction of the current in the following circuit is [P-CE-C]_E



- (1) 0.5 A from A to B through E
- (2) $\frac{5}{9}$ A from A to B through E
- (3) 1. 5 A from B to A through E
- (4) 0.2 A from B to A through E

(1) Ans.

Sol. Direction of current is from A to B

$$i = \frac{10-5}{2+7+1} = \frac{5}{10} = 0.5A$$

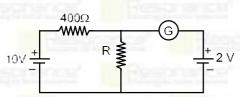
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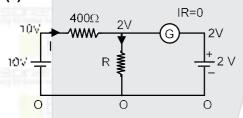
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3. If the galvanometer G does not show any deflection in the circuit shown, the value of R is given by:

[P-CE-C]_E



- (1) 50 Ω
- $(2) 100\Omega$
- (3) 400Ω
- $(4) 200\Omega$
- Ans. (2)



Sol.

$$I = \frac{10}{400 + R}$$

$$IR = 2$$

$$\frac{10R}{400 + R} = 2$$

$$10R = 800 + 2R$$

$$8R = 800$$

$$R = 100 \Omega$$

- 4. The temperature of a gas is -50° C. To what temperature the gas should be heated so that the rms speed in increased by 3 times? [P-KTG-B]_M
 - (1) 3295°C
 - (2) 3097 K
 - (3) 223 K
 - (4) 669°C
- Ans.

Sol.
$$\frac{V_{rm_1}}{V_{rms_2}} = \sqrt{\frac{T_1}{T_2}}$$

$$\frac{1}{4} = \sqrt{\frac{T_1}{T_2}}$$

$$T_2 = 16 T_1$$

- $= 16 \times (273 50) \text{ k}$
- $= 16 \times 223 \text{ k}$
- = 3968 k
- $T_2 = 3968 273$
 - $= 3295^{\circ}C$

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- 5. The ratio of radius of gyration of a solid sphere of mass M and radius R about its own axis to the radius of gyration of thin hollow sphere of same mass and radius about its axis is: [P-RBD-B]_E
 - (1)5:3
 - (2) 2:5
 - (3) 5:2
 - (4) 3:5
- Ans. (4)
- $MK_1^2 = \frac{2}{5}MR^2$ Sol.
 - $MK_2^2 = \frac{2}{3}MR^2$
 - $\frac{K_1}{K_2} = \sqrt{\frac{3}{5}}$
- A Carnot engine has an efficiency of 50% when its source is at temperature 327° C. The temperature of the sink is: [P-KTG-J] E
 - (1) 15°C
 - (2) 100° C
 - (3) 200°C
 - (4) 27°C
- (4) Ans.
- $T_1 = 327 + 273 = 600k$ Sol.
 - $n = \frac{1}{2} = 1 \frac{T_2}{T_1}$

 - $T_2 = \frac{T_1}{2} = 300k$
 - $T_2 = 27^{\circ}C$
- 7. A bullet is fired from a gun at the speed of 280 ms⁻¹ in the direction 30° above the horizontal. The [P-PM-A]_E maximum height attained by the bullet is $(g = 9.8 \text{ ms}^{-2}, \sin 30^{\circ} = 0.5)$:
 - (1) 2000 m
 - (2) 1000 m
 - (3) 3000 m
 - (4) 2800 m
- Ans.
- $H = \frac{u^2 \sin^2 \theta}{1 + \frac{1}{2} \sin^2 \theta}$ Sol.

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[P-ES-H] E

- (1) 6 mC
- (2) 4 mC
- (3) 2 mC
- (4) 8 mC
- Ans. (3)
- **Sol.** $\tau = -pE \sin\theta = qIE$

$$q = \frac{4 \times 10^{-5}}{2 \times 10^{-2}} = 2mc$$

9. Given below are two statements:

Statement I: Photovoltaic devices can convert optical radiation into electricity.

Statement II: Zener diode is designed to operate under reverse bias in breakdown region. In the light of the above statements, choose the **most appropriate** answer from the options given below:

[P-SS-B]_E

- (1) Both Statement I and Statement II are incorrect.
- (2) Statement I is correct but Statement II is incorrect.
- (3) Statement I is incorrect but Statement II is correct.
- (4) Both Statement I and Statement II are correct.
- Ans. (4)

Sol. Theory based

- 10. The errors in the measurement which arise due to unpredictable fluctuations in temperature and voltage supply are : [P-ME-A]_M
 - (1) Personal errors
 - (2) Lease count errors
 - (3) Random errors
 - (4) Instrumental errors
- Ans. (3)
- Sol. Theory based
- 11. The ratio of frequencies of fundamental harmonic produced by an open pipe to that of closed pipe having the same length is:

 [P-SW-E]_E
 - (1) 2 : 1
 - (2) 1 : 3
 - (3) 3:1
 - (4)1:2
- Ans. (1)
- **Sol.** $\frac{f_1}{f_2} = \frac{v/2\ell}{v/4\ell} = \frac{2}{1}$

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12. The net magnetic flux through any closed surface is: [P-EMF-F] E

- (1) Positive
- (2) Infinity
- (3) Negative
- (4) Zero
- Ans. (4)
- Sol. As magnetic fixed lines from closed surface
 - $\phi B ds = 0$ always
- 13. The work functions of Caesium (Cs), Potassium (K) and Sodium (Na) are 2.14eV, 2.30eV and 2.75eV respectively. If incident electromagnetic radiation has and incident energy of 2.20eV, Which of these photosensitive surfaces may emit photoelectrons? [P-MP-A] E
 - (1) Both Na and K
 - (2) K only
 - (3) Na only
 - (4) Cs only
- (4) Ans.
- For Cs, work function is less the energy of incidental photon. Sol.
- 14. The minimum wavelength of X-rays produced by an electron accelerated through a potential difference of V volts is proportional to: [P-MP-B] E

 - $(3) V^2$
 - (4) √V
- Ans. (1)
- Sol. = eV
 - $\lambda = \frac{hc}{}$ eV
- 15. A 12 V,60 W lamp is connected to the secondary of a step down transformer, whose primary is connected to ac mains of 220 V. Assuming the transformer to be ideal, what is the current in the primary winding? [P-AC-E]_E
 - (1) 2.7 A
 - (2) 3.7 A
 - (3) 0.37 A
 - (4) 0.27 A
- Ans. (4)
- Sol. For ideal transformer
 - $e_s I_s = e_p I_p$
 - $60 = 220 I_P$
 - $I_p = 0.27 \text{ A}$

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- 16. Light travels a distance x in time t1 in air and 10x in time t2 another denser medium. What is the critical [P-GO-C]_M angle for this medium?
 - $(1) \sin^{-1} \left(\frac{10t_2}{t} \right)$
 - (2) $\sin^{-1}\left(\frac{t_1}{10t_2}\right)$
 - (3) $\sin^{-1} \left(\frac{10t_1}{t_2} \right)$
 - (4) $\sin^{-1} \left(\frac{t_2}{t_1} \right)$
- Ans.
- $V_1 = \frac{x}{t_4}$ Rare Sol.
 - $V_2 = \frac{10x}{t_2}$ Denser
 - $\operatorname{Sin} c = \frac{1}{\left(\frac{n_D}{n_r}\right)} = \frac{n_r}{n_D} = \frac{V_D}{V_r} \quad \mu \alpha \frac{1}{v}$
 - Sinc = $\frac{10x}{t_2} \times \frac{t_1}{x} = \frac{10t_1}{t_2}$
 - $C = Sin^{-1} \left(\frac{10t_1}{t_2} \right)$
- 17. A metal wire has mass (0.4 \pm 0.002) g, radius (0.3 \pm 0.001) mm and length (5 \pm 0.02) cm. The maximum possible percentage error in the measurement of density will nearly be: [P-ME-A] E
 - (1) 1.3 %
 - (2) 1.6 %
 - (3) 1.4 %
 - (4) 1.2 %
- (2) Ans.
- $d = \frac{m}{\pi r^2}$ Sol.
 - $\frac{\Delta \ell}{d} = \pm \left[\frac{\Delta m}{m} + 2 \frac{\Delta r}{r} + \frac{\Delta \ell}{\ell} \right]$
 - $\frac{\Delta d}{d} \times 100 = \left[\frac{.002}{4} + \frac{2(0.001)}{0.3} + \frac{.02}{5} \right] \times 100$
 - = $\left[\frac{.02}{4} + \frac{.02}{3} + \frac{.02}{5}\right]100\%$
 - $=\frac{2}{4}+\frac{2}{3}+\frac{2}{5}$

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- = 0.50 + 0.67 + 0.40
- = 1.57
- = 1.6%
- **18.** For Young's double slit experiment, two statements are given below:

[P-WO-B] E

Statement I: If screen is moved away from the plane of slits, angular separation of the fringes remains constant.

Statement II : If the monochromatic source is replaced by another monochromatic source of larger wavelength, the angular separation of fringes decreases.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are false.
- (2) Statement I true but Statement II is false.
- (3) Statement I If is false but Statement II is true.
- (4) Both Statement I and Statement II are true.

Ans. (2)

Sol. $\beta = \frac{\lambda D}{d}$

$$\theta = \frac{\beta}{D} = \frac{\lambda}{d}$$

Statement (1) is True

Statement (2) is False

19. The half life of a radioactive substance is 20 Minutes. In How much time, the activity of substance drops

to
$$\left(\frac{1}{16}\right)^{11}$$
 of its initial value?

[P-MP-D] E

- (1) 40 minutes
- (2) 60 minutes
- (3) 80 minutes
- (4) 20 minutes

Ans. (3)

Sol. $A = \frac{A_o}{2^n}$

$$\frac{A_o}{16} = \frac{A_o}{2^n}$$

X = 4 half lives

$$=4\times20$$

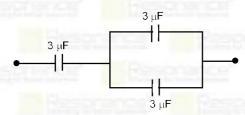
80 minutes

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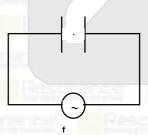
20. The equivalent capacitance of the system shown in the following circuit is: [P-CP-C] E



- (1) $3 \mu F$
- (2) $6 \mu F$
- (3) $9 \mu F$
- $(4) 2 \mu F$
- (4)Ans.
- Sol. $C_1 = 3 + 3 = 6 \mu F$

$$C_{eq} = \frac{3 \times 6}{3 + 6} = 2 \mu F$$

- 21. Resistance of a carbon resistor determined from colour codes is (22000±5%) Ω. The colour of third band [P-CE-B] E must be:
 - (1) Green
 - (2) Orange
 - (3) Yellow
 - (4) Red
- Ans. (2)
- Sol.
- $R = 22000 \pm 5\%$ $= 22 \times 10^3 \pm 5 \%$
- $R = AB \times 10^{C} \pm D\%$ C = 3 = orange
- An ac source is connected to an capacitor C. Due to decrease in its operating frequency: [P-EMW-A]_E 22.
 - (1) displacement current increases.
 - (2) displacement current decreases.
 - (3) capacitive reactance remains constant
 - (4) capacitive reactance decreases
- Ans. (2)
- Sol.



$$q = CV_o Sin\omega t$$

$$i = \frac{dq}{dt} = CV_o \omega \cos \omega t$$

$$\frac{\text{CV}_{o}}{\left(\frac{1}{\omega}\right)}\cos\omega t$$

$$X_C = \frac{1}{C\omega}$$

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 $i_d \downarrow$

- A vehicle travels half the distance with speed 9 and the remaining distance with speed 29. Its average 23. speed is: [P-RM-B] E
 - $(1) \frac{29}{3}$
 - (2) $\frac{49}{3}$

Ans.

Sol.
$$V_{av} = \frac{2(v)(2v)}{3v}$$

- The amount of energy required to form a soap bubble of radius 2 cm from a soap solution is nearly: 24. (surface tension of soap solution = 0.03 N m⁻¹) [P-ST-A] M
 - $(1) 5.06 \times 10^{-4} J$
 - $(2) 3.01 \times 10^{-4} J$
 - $(3) 50.1 \times 10^{-4} J$
 - $(4) 30.16 \times 10^{-4} J$

(2)Ans.

Sol.
$$U = 2T(4\pi r^2)$$

$$= 2 \times 0.03 \times 4\pi (2 \times 10^{-2})^{2}$$

$$= 2 \times 4\pi \times 4 \times 3 \times 10^{-6}$$

$$= 96 \pi \times 10^{-6} \text{ J}$$

$$= 96 \times 3.14 \times 10^{-6} \text{ J}$$

$$= 3.01 \times 10^{-4} \text{ J}$$

- 25. The venturi-meter works on:
 - (1) Bernoulli's principle
 - (2) The principle of parallel axes
 - (3) The principle of perpendicular axes
 - (4) Huygen's principle
- Ans. (1)

Sol.

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[P-FM-C] E

- 26. In hydrogen spectrum, the shortest wavelength in the Balmer series is λ. The shortest wavelength in the Bracket series is : [P-MP-C]_E
 - $(1) 4 \lambda$
 - $(2) 9 \lambda$
 - (3) 16λ
 - $(4) 2 \lambda$
- Ans. (1)
- **Sol.** $\frac{1}{\lambda_{\text{Balmer}}} = R \left[\frac{1}{4} \frac{1}{\infty} \right] = 1/\lambda$
 - $\frac{1}{\lambda_{Bracket}} = R \left[\frac{1}{16} \frac{1}{\infty} \right]$
 - $\frac{\lambda_{Bracket}}{\lambda} = \frac{R/4}{R/16} = 4$
 - $\lambda_{Bracket} = 4\lambda$
- 27. The potential energy of a long spring when stretched by 2 cm is U. If the spring is stretched by 8 cm, potential energy stored in it will be:

 [P-WPE-D]_E
 - (1) 4U
 - (2) 8U
 - (3) 16U
 - (4) 2U
- Ans. (3)
- **Sol.** $U = \frac{1}{2}kx^2$
 - $U = \frac{1}{2}k(2)^2$
 - $U^1 = \frac{1}{2}k(8)^2$
 - $\frac{U^1}{U} = \frac{64}{4}$
 - $U^1 = 16u$
- 28. A full wave rectifier circuit consists of two p-n junctions diodes, a centre-tapped transformer, capacitor and a load resistance. Which of these components remove the ac ripple from the rectified output?
 - [P-SS-D] E

- (1) p-n junction diodes
- (2) Capacitor
- (3) Load resistance
- (4) A centre-tapped transformer
- Ans. (2)
- Sol.

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- 29. The magnetic energy stored in an inductor of inductance 4 μH carrying a current of 2 A is: [P-EMI-G]_E
 - (1) 4 m J
 - (2) 8 m J
 - $(3) 8 \mu J$
 - $(4) 4 \mu J$
- Ans. (3)
- Sol. $U = \frac{1}{2}LI^2$
 - $= \frac{1}{2} \times 4 \times 10^{-6} (2)^2$
 - = <mark>8րJ</mark>
- 30. If $\oint \vec{E} \cdot \vec{d}s = 0$ over a surface, then:

[P-ES-I]_E

- (1) The magnitude of electric field on the surface is constant.
- (2) All the charges mist necessarily be inside the surface.
- (3) The electric field inside the surface is necessarily uniform.
- (4) The number of flux lines entering the surface must be equal to the number of flux lines leaving it.
- Ans. (4)
- Sol.
- 31. A football player is moving southward and suddenly turns east ward with the same speed to avoid an opponent. The force that acts on the player while turning is:

 [P-NLM-E]_E
 - (1) along northward

(2) along north-east

(3) along north-west

(4) along eastward

- Ans. (2)
- Sol.



- $V_i = southword (\hat{j})$
- $V_f = eastward (\hat{i})$

$$a = \frac{V_f - V_i}{\Delta t} = \frac{\hat{i} + \hat{j}}{\Delta t}$$

î + j means northeast

Means force acts on the player always North east.

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- 32. Let a wire be suspended from the ceiling (rigid support) and stretched by a weight W attached at its free end. The longitudinal stress at any point of cross-sectional area A of the wire is:

 [P-EV-A]_E
 - (1) W / A
- (2) W / 2A
- (3) Zero
- (4) 2W / A

Ans.

Sol.



(1)

 $Stress = \frac{W}{A}$

33. The angular acceleration of a body, moving along the circumference of a circle, is:

[P-EV-A]_E

- (1) along the radius towards the centre
 - (2) along the tangent to its position
 - (3) along the axis of rotation
 - (4) along the radius, away from centre

Ans. (3)

Sol.

- 34. In a plane electromagnetic wave travelling in free space, the electric field component oscillates sinusoidally at a frequency of 2.0×10¹⁰Hz and amplitude 48 V m⁻¹. Then the amplitude of oscillating magnetic field is: (Speed of light in free space = 3 × 10⁸ m s⁻¹)

 [P-EMW-A]_E
 - $(1) 1.6 \times 10^{-8}$ T
- $(2) 1.6 \times 10^{-7}$ T
- $(3) 1.6 \times 10^{-6} T$
- $(4) 1.6 \times 10^{-9} T$

Ans. (2)

Sol.

$$C = \frac{E_0}{B_0}$$

$$B_{O} = \frac{E_{0}}{C}$$

$$=\frac{48}{3\times10^8}$$

$$= 16 \times 10^{-8} \text{T}$$

$$= 1.6 \times 10^{-7} \text{ T}$$

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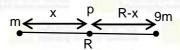
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- 35. Two bodies of mass m and 9m are placed at a distance R. The gravitational potential on the line joining the bodies where the gravitational field equals zero, will be (G = gravitational constant): [P-GR-C]_E
 - 12Gm
- (2) $-\frac{16Gm}{R}$
- 20Gm

(2)Ans.

Sol.



$$E_g = 0$$

$$\frac{Gm}{x^2} = \frac{G 9m}{(R-x)^2}$$

$$\frac{1}{x} = \frac{3}{R-x}$$

$$R-x = 3x$$

$$4x = R$$

$$x = \frac{R}{4}$$

$$R - x = \frac{3R}{4}$$

$$V_{p} = -\frac{Gm}{x} - \frac{G(9m)}{R - x}$$

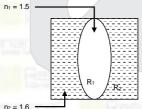
$$=-\frac{4Gm}{R}-\frac{9Gm.4}{3R}$$

$$= -\frac{16Gm}{D}$$

Ans. (2)

36. In the figure shown here, what is the equivalent focal length of the combination of lenses (Assume that all layers are thin)?

[P-GO-G]_E



$$(1) - 40 \text{ cm}$$

$$(2) - 100 cm$$

 $R_1 = R_2 = 20 \text{ cm}$

$$(3) - 50 \text{ cm}$$

Ans.

$$\frac{1}{f_4} = (1.6) \left[\frac{1}{\infty} - \frac{1}{20} \right] = -0.6 \times \frac{1}{20}$$

$$\frac{1}{f_2} = (1.5 - 1) \left[\frac{1}{20} - \frac{1}{-20} \right] = 0.5 \times \frac{2}{20} = \frac{1}{20}$$

$$\frac{1}{f_3} = (1.6 - 1) \left[\frac{1}{-20} + \frac{1}{\infty} \right] = 0.6 \times \frac{1}{20}$$

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$$\frac{1}{f} = \frac{1}{f_1} + \frac{1}{f_2} + \frac{1}{f_3}$$

$$= \frac{1}{20} \left[-0.6 + 1 - 0.6 \right]$$

$$\frac{1}{f} = \frac{-0.2}{20}$$

$$f = \frac{-200}{2}$$
 = -100

37. Calculate the maximum acceleration of a moving car so that a body lying on the floor of the car remains stationary. The coefficient of static friction between the body and the floor is 0.15 (g = 10 m s^{-2}).

[P-FR-B]_E

- (1) 150 m s⁻²
- (2) 1.5 m s⁻²
- (3) 50 m s⁻²
- (4) 1.2 m s⁻²

Ans. (2)

Sol. $ma = \mu mg$

$$a = \mu g$$

$$= 0.15 \times 10$$

$$= 1.5 \text{ m/s}^2$$

38. A satellite is orbiting just above the surface of the earth with period T. If d is the density of the earth and

G is the universal constant of gravitation, the quantity $\frac{3\pi}{\text{Gd}}$ represents :

[P-GR-D]_E

- $(1) T^2$
- $(2) T^3$
- (3) √T
- (4) T

Ans. (1)

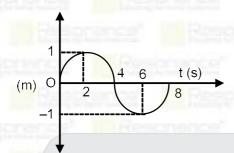
Sol. $\frac{3\pi}{\text{ud}} = \frac{3\pi}{\frac{\text{FL}^2}{\text{M}_1\text{M}_2} \times \frac{\text{M}}{\text{I}^3}} = \frac{\text{ML}}{\text{F}}$

$$= \frac{M^1L^1}{M^1L^1T^{-2}} = T^2$$

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39. The x-t graph of a particle performing simple harmonic motion is shown in the figure. The acceleration of the particle at t = 2 s is: [P-SHM-A]_M



- $(1) \frac{\pi^2}{8} \text{m s}^{-2}$
- (2) $\frac{\pi^2}{16}$ m s⁻²
- (3) $-\frac{\pi^2}{16}$ m s⁻²
- (4) $\frac{\pi^2}{8}$ m s⁻²

Ans.

Sol. T = 8

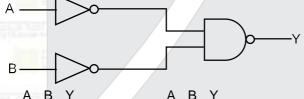
$$w = \frac{2\pi}{8} = \frac{\pi}{4}$$

$$a = -w^2A$$

$$=\frac{-\pi^2}{16}\times 1\,\text{m/s}^2$$

$$=\frac{-\pi^2}{16}$$
 m/s²

40. For the following logic circuit, the truth table is: [P-SS-D] E

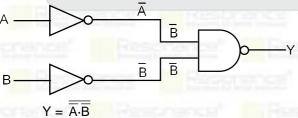


- 0
- B 0 1 0

Ans.

(1)

Sol.



Α	В	Ā	\overline{B}	Ā.B	_ A⋅B
0	0	1	1	1	0
0	1	1	0	0	1
1	0	0	1	0	1
1	1	0	0	0	1

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- 41. A horizontal bridge is built across a river. A student standing on the bridge throws a small ball vertically upwards with a velocity 4 ms⁻¹. The ball strikes the water surface after 4 s. The height of bridge above water surface is (Take $g = 10 \text{ ms}^{-2}$): [P-RM-D]_E
 - (1) 60 m
- (2) 64 m
- (3) 68 m
- (4) 56 m

Ans. (2)

- Sol. $-h = 4(4) + \frac{1}{2}(-10)(4)^2$ -h = +16 - 80h = 64 m
- 42. Two thin lenses are of same focal lengths (f), but one is convex and the other one is concave.

 When they are placed in contact with each other, the equivalent focal length of the combination will be:

[P-GO-G]_E

- (1) f/4
- (2) f/2
- (3) Infinite
- (4) Zero

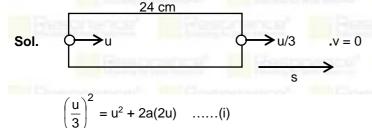
- Ans. (3)
- **Sol.** $\frac{1}{f_{eq}} = \frac{1}{f} \frac{1}{f} = 0$
 - $f_{eq} = \infty$
- 43. A wire carrying a current I along the positive x-axis has length L. It is kept in a magnetic field $\vec{B} = (2\hat{i} + 3\hat{j} 4\hat{k})$ T. The magnitude of the magnetic force acting on the wire is: [P-EMF-H]_E
 - (1) √5 IL
- (2) 5 IL
- (3) √3 IL
- (4) 3 IL

Ans. (2)

- Sol. $\vec{F} = i(\vec{L} \times \vec{B})$ $= I[\hat{L}\hat{i} \times (2\hat{i} + 3\hat{j} - 4\hat{k})]$ $= IL(3\hat{k} + 4\hat{j})$ $|\vec{F}| = 5 IL$
- 44. A bullet from a gun is fired on a rectangular wooden block with velocity u. When bullet travels 24 cm through the block along its length horizontally, velocity of bullet becomes $\frac{u}{3}$. Then it further penetrates into the block in the same direction before coming to rest exactly at the other end of the block. The total length of the block is:

 [P-WPE-C]_M
 - (1) 24 cm
- (2) 28 cm
- (3) 30 cm
- (4) 27 cm

Ans. (4)



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$$0 = \left(\frac{u}{3}\right)^2 + 2a(S)$$
(ii)

from (i) & (ii)

$$2aS = -\frac{u^2}{9}$$

$$48a = -\frac{8u^2}{9}$$

$$\frac{S}{24} = \frac{1}{8}$$

$$S = 3$$

Total length = 27 cm

- 45. The resistance of platinum wire at 0°C is 2Ω and 6.8Ω at 80°C. The temperature coefficient of resistance of the wire is: [P-CE-B]_E
 - (1) $3 \times 10^{-3} \, ^{\circ}\text{C}^{-1}$
- (2) $3 \times 10^{-2} \, ^{\circ}\text{C}^{-1}$
- (3) $3 \times 10^{-1} \, ^{\circ}\text{C}^{-1}$ (4) $3 \times 10^{-4} \, ^{\circ}\text{C}^{-1}$

(2)Ans.

Sol. $\Delta R = R \propto \Delta t$

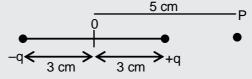
$$\infty = \frac{\Delta R}{R \Delta t}$$

$$=\frac{6.8-2}{2(80)}$$

$$=\frac{4.8}{2\times80}$$

$$=\frac{2.4}{80}=\frac{0.3}{10}=.03 \text{ per }^{\circ}\text{C}$$

46. An electric dipole is placed as shown in the figure. [P-ES-H]_E



The electric potential (in 10^2 V) at point P due to the dipole is (ϵ_0 = permittivity of free space and

$$\frac{1}{4\pi \in_0} = K$$

$$(1)$$
 $\left(\frac{5}{8}\right)$ qK

$$(2)$$
 $\left(\frac{8}{5}\right)$ qK

$$(3)$$
 $\left(\frac{8}{3}\right)$ qK

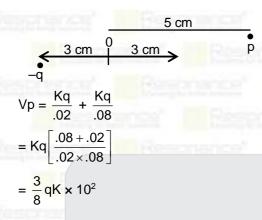
(4)
$$\left(\frac{3}{8}\right)$$
 qK

Ans.

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- 47. 10 resistors, each of resistance R are connected in series to a battery of emf E and negligible internal resistance. Then those are connected in parallel to the same battery, the current is increased n times. The value of n is:

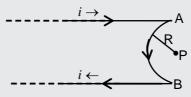
 [P-CE-D] E
 - (1) 100
- (2) 1

- (3) 1000
- (4) 10

- Ans. (1)
- **Sol.** $I_1 = \frac{E}{10R}$
 - $I_2 = \frac{E}{\left(\frac{R}{10}\right)} = \frac{10E}{R}$
 - $\frac{I_2}{I_1} = 100$
- 48. A very long conducting wire is bent in a semi-circular shape from A to B as shown in figure.

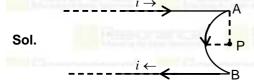
 The magnetic field at point P for steady current configuration is given by:

 [P-EMF-D]_E



- (1) $\frac{\mu_0 i}{4R}$ pointed away from the page
- (2) $\frac{\mu_0 i}{4R} \left(1 \frac{2}{\pi} \right)$ pointed away from page
- (3) $\frac{\mu_0 i}{4R} \left(1 \frac{2}{\pi}\right)$ pointed into the page
- (4) $\frac{\mu_0 i}{4R}$ pointed into the page

Ans. (2)



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$$B_p = +$$

Pointed away from page.

- 49. The radius of inner most orbit of hydrogen atom is 5.3×10^{-11} m. What is the radius of third allowed orbit of hydrogen atom? [P-MP-C]_E
 - (1) 1.06 Å
- (2) 1.59 Å
- (3) 4.77 Å
- (4) 0.53 Å

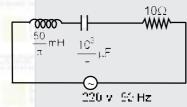
Ans. (3)

Sol.
$$R_3 = 5.3 \times 10^{-11} \times (9)$$

= 4.77 × 10⁻¹⁰
= 4.77 Å

50. The net impedance of circuit (as shown in figure) will be:

[P-AC-C]_E



- $(1) 15 \Omega$
- (2) $5\sqrt{5}$ Ω
- (3) 25 Ω
- (4) $10\sqrt{2} \Omega$

Ans. (2)

Sol.
$$X_L = L\omega$$

$$=\frac{50}{\pi}\times2\pi\times50\times10^{-3}$$

$$= 5 \Omega$$

$$X_C = \frac{1}{C_{\omega}} = \frac{\pi}{10^3 \times 2\pi \times 50 \times 10^{-6}} = 10 \Omega$$

$$Z = \sqrt{10^2 + (10 - 5)^2}$$

$$=\sqrt{100+25}$$

$$=\sqrt{125}$$

$$=5\sqrt{5}$$

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Test Booklet Code

F6

NEET 2023

Questions, Answer Key & Solutions

Date: 07 May, 2023 | TIME: (02:00 PM to 05:20 PM)

Duration: 200 minutes (03 Hrs. 20 Min.) | Max. Marks: 720

Important Instructions:

- The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on OFFICE Copy carefully with **blue/black** ball point pen only.
- 2. The test is of 3 hours 20 minutes duration and Test Booklet contains 200 multiple-choice questions (four options with a single correct answer) from Chemistry, Physics and Biology (Botany and Zoology). 50 questions in each subject are divided into two Sections (A and B) as per details given below:
 - (a) Section A shall consist of 35 (Thirty-five) Questions in each subject (Questions Nos 1 to 35, 51 to 85, 101 to 135 and 151 to 185). All questions are compulsory.
 - (b) Section B shall consist of 15 (Fifteen) questions in each subject (Question Nos 36 to 50, 86 to 100, 136 to 150 and 186 to 200). In Section B, a candidate needs to attempt any 10 (Ten) questions out of 15 (Fifteen) in each subject.

Candidates are advised to read all 15 questions in each subject of Section B before they start attempting the question paper. In the event of a candidate attempting more than ten questions, the first ten questions answered by the candidate shall be evaluated.

- 3. Each question carries 4 marks. For each correct response, the candidate will get 4 marks. For each incorrect response, one mark will be deducted from the total scores. The maximum marks are 720.
- 4. Use Blue/Black Ball Point Pen only for writing particulars on this page/marking responses on Answer Sheet.
- Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- 6. On completion of the test, the candidate **must hand over the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator** before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them.
- 7. The CODE for this Booklet is **F6**. Make sure that the CODE printed on the Original Copy of the Answer Sheet is the same as that on this Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
- 8. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Test Booklet/Answer Sheet.
- 9. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
- 10. Each candidate must show on-demand his/her Admit Card to the Invigilator.
- 11. No candidate, without special permission of the centre Superintendent or Invigilator, would leave his/her seat.
- 12. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign (with time) the Attendance Sheet twice. Cases, where a candidate has not signed the Attendance Sheet second time, will be deemed not to have handed over the Answer Sheet and dealt with as an Unfair Means case.
- 13. Use of Electronic/ Manual Calculator is prohibited.
- 14. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Room/Hall. All cases of unfair means will be dealt with as per the Rules and Regulations of this examination.
- 15. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 16. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet.
- 17. Compensatory time of one hour five minutes will be provided for the examination of three hours and 20 minutes duration, whether such candidate (having a physical limitation to write) uses the facility of scribe or not.

In case of any ambiguity in translatio प्रश्नों के अनुवाद में किसी अस्पष्ट	n of any question, English version shall be treated as final. ता की स्थिति में, अंग्रेजी संस्करण को ही अन्तिम माना जायेगा।
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PART : BIOLOGY

- 101. Movement and accumulation of ions across a membrane against their concentration gradient can be explained by (1) Facilitated diffusion (2) Passive transport (3) Active transport (4) Osmosis
- Ans.
- 102. Among 'The Evil Quartet', which one is considered the most important cause driving extinction species?
 - (1) Over exploitation for economic gain

(2) Alien species invasions

(3) Co-extinctions

(4) Habitat loss and fragmentation

(4)Ans.

- 103. Identify the pair of heterosporous pteridophytes among the following:
 - (1) Selaginella and Salvinia

(2) Psilotum and Salvinia

(3) Equisetum and Salvinia

(4) Lycopodium and Selaginella

Ans. (1)

- 104. Frequency of recombination between gene pairs on same chromosome as a measure of the distance between genes to map their position on chromosome, was used for the first time by
 - (1) Sutton and Boveri

(2) Alfred sturtevant

(3) Henking

(4) Thomas Hunt Morgan

Ans. (2)

- 105. What is the function of tassels in the corn cob?
 - (1) To trap pollen grains

(2) To disperse pollen grains

(3) To protect seeds

(4) To attract insects

Ans. (1)

- 106. Identify the correct statements:
 - A. Detrivores perform fragmentation.
 - B. The humus is further degraded by some microbes during mineralization.
 - C. Water soluble inorganic nutrients go down into the soil and get precipitated by a process called leaching.
 - D. The detritus food chain begins with living organisms.
 - E. Earthworms break down detritus into smaller particles by a process called catabolism.

Choose the **correct** answer from the options given below:

(1) B, C, D only

(2) C, D, E only

(3) D, E, A only

(4) A,B,C only

Ans. (4)

107. Given below are two statements: One is labelled as

Assertion A and the other is labelled as Reason R:

Assertion A: Late wood has fewer xylary elements with narrow vessels.

Reason R: Cambium is less active in winters. In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false.
- (3) A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.

(4)Ans.

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RE	esonance®		NEET (UG) 2023 D	ATE: 07-05-2023 BIOLOGY
108.				ub stage of prophase I in meiosis?
	(1) Pachytene	(2) Diplotene	(3) Diakinesis	(4) Zygotene
Ans.	(1)			
109.	Which of the follow	ing stages of meiosis invol	ves division of centromer	e?
	(1) Metaphase II	(2) Anaphase II	(3) Telophase	(4) Metaphase I
Ans.	(2)			
110.	During the purificat	ion process for recombina	nt DNA technology, addit	tion of chilled ethanol precipitates
	out			
	(1) DNA	(2) Histones	(3) Polysaccharides	(4) RNA
Ans.	(1)			
111.	Family fabaceae d	liffers from Solanaceae a	nd Liliaceae. With respe	ect to the stamens, pick out the
		cific to family Fabaceae bu		
		nd epipetalous stamens	` '	nd Monothcous anthers
	(3) Epiphyllous and	Dithecous anthers	(4) Diadelphous and I	Dithecous anthers
Ans.	(4)			
112.	Large, colourful, fra	grant flowers with nectar a	are seen in :	
	(1) bird pollinated p	lants	(2) bat pollinated plan	nts
	(3) wind pollinated	plants	(4) insect pollinated p	lants
Ans.	(4)			
113.	Spraying of which	of the following phytohorn	mone on juvenile conifers	s helps in hastening the maturity
	period that leads to	early seed production?		
	(1) Gibberellic Acid		(2) Zeatin	
	(3) Abscisic Acid		(4) Indole-3-butyric Ad	cid
Ans.	(1)			
114.	Axile placentation is	s observe in		
	(1) China rose, Bea	ans and Lupin	(2) Tomato, Dianthus	and Pea
	(3) China rose, Pet		(4) Mustard, Cucumb	
Ans.	(3)		· ,	
115.	Among eukaryotes	, replication of DNA takes p	place in :	
	(1) S phase	(2) G ₁ phase	(3) G ₂ phase	(4) M phase
Ans.	(1)			
116.	How many ATP an	d NADPH ₂ are required for	or the sy <mark>nthe</mark> sis of one m	nolecule of Glucose during Calvin
	cycle?	[South relative and]	Guarina and	
	(1) 18 ATP and 12	NADPH ₂	(2) 12 ATP and 16 NA	ADPH ₂
	(3) 18 ATP and 16		(4) 12 ATP and 12 NA	
Ans.	(1)	THE PARTY		Diene in the second

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/ RE	2SONANCE" ating for better tomorrow	NEET (UG) 2023	DATE: 07-05-2023	BIOLOGY
117.	In gene gun method used to introduce al used.	ien DNA into host cells mi	croparticles of	metal are
Ans.	(1) Zinc (2) Tungsten or g	old (3) Silver	(4) Copper	
118.	The thickness of ozone in a column of air	in the atmosphere in meas	sured in terms of :	
Ans.	(1) Decibels (2) Decameter (4)	(3) Kilobase	(4) Dobson units	
<mark>11</mark> 9.	Unequivocal proof that DNA is the genetic (1) Alfred Hershey and Martha Chase	(2) Avery, Macleoid	and McCarthy	
Ans.	(3) Wilkins and Franklin (1)	(4) Frederick Griffith	n	
120.	In the equation GPP – R = NPP GPP is Gross Primary Productivity NPP is Net Primary Productivity R here is			
Ans.	(1) Respiratory quotient (3) Reproductive allocation (2)	(2) Respiratory loss (4) Photosynthetica		
121. Ans.	What is the role of RNA polymerase III in (1) Transcription of tRNA, 5srRNA and sn (2) Transcription of precursor of mRNA (3) Transcription of only snRNAs (4) Transcription of rRNAs (28S, 18S and (1)	RNA	n of Eukaryotes ?	
122.	Which micronutrient is required for splitting (1) molybdenum (2) magnesium	g of water molecule during (3) copper	photosynthesis? (4) manganese	
Ans.	(4)	`,'		
123.	In angiosperm, the haploid, diploid and trip (1) Antipodal, synergids, and primary endo	osperm nucleus	ed embryo sac sequent	ially are :
	(2) Synergids, Zygote and primary endosp(3) Synergids, antipodal and Polar nuclei(4) Synergids, Primary endopsperm nucle			
Ans.	(2)	7,5		
124.	The phenomenon of pleiotropism refers to			
	(1) presence of two alleles, each of the tw(2) a single gene affecting multiple phenot	typic expres <mark>sion.</mark>	e trait	
	(3) more than two genes affecting a single(4) presence of several alleles of a single		rossover.	
Ans.	(2)			

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125. Given below are two statements. One is labelled as Assertion A and the other is labelled as Reason R: **Assertion A:** ATP is used at two steps in glycolysis.

Reason R: First ATP is used in converting glucose into glucose-6-phosphate and second ATP is used in conversion of fructose-6-phosphate into fructose -1-6-diphosphate.

In the light of the above statement, choose the correct answer from the statements, choose the correct answer from the options give below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false
- (3) A is false but R is true
- (4) Both A and R are true and R is the correct explanation of A.
- (4) Ans.
- 126. Cellulose does not form blue colour with lodine because
 - (1) It is a helical molecule.
 - (2) It does not contain complex helices and hence cannot hold iodine molecules.
 - (3) It breakes down when iodine reacts with it.
 - (4) It is a disaccharide.
- Ans. (2)
- 127. Which hormone promotes internode/petiole elongation in deep water rice?
 - (1) Kinetin
- (2) Ethylene
- (3) 2,4-D
- (4) GA₃

- Ans. (2)
- 128. Expressed Sequence Tags (ESTs) refers to
 - (1) All genes that are expressed as proteins.
 - (2) All genes whether expressed or unexpressed.
 - (3) Certain important expressed genes.
 - (4) All genes that are expressed as RNA.
- Ans. (4)
- 129. Given below are two statements:

Statement I The forces generated by transpiration can lift a xylem-sized column of water over 130 meters height.

Statement II: Transpiration cools leaf surfaces sometimes 10 to 15 degrees, by evaporative cooling.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both Statement I and Statement II are incorrect.
- (2) Statement I is correct but Statement II is incorrect.
- (3) Statement I is incorrect but Statement II is correct.
- (4) Both Statement I and Statement II are correct.
- Ans.
- Upon exposure to UV radiation, DNA stained with ethidium bromide will show 130.
 - (1) Bright blue colour
- (2) Bright yellow colour
- (3) Bright orange colour
- (4) Bright red colour

Ans. (3)

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\ Re Educa	esonance®		NEET (UG) 2023	DATE: 07-05-2023 BIOLOGY		
131.		nvention on Biological Di	versity, "The Earth Summ	it' was held in Rio de Janeiro in the		
	year: (1) 1992	(2) 1986	(3) 2002	(4) 1985		
Ans.	(1)					
132.	The reaction cer (1) 700 nm	ntre in PS II has an absor (2) 660 nm	ption maxima at (3) 780 nm	(4) 680 nm		
Ans.	(4)					
133.	Given below are	e two statements: One is l	a <mark>bell</mark> ed as Assertion A and	d the other is labelled as Reason R:		
	Reason R Proto tatements, choo most appropriat (1) Both A and F (2) A is correct to (3) A is not correct	onema develops directly use the eanswer from the options	s given below: Γ the correct explanation o	capsule. In the light of the above s		
Ans.	(4)					
134.	In tissue culture experiments, leaf mesophyll cells are put in a culture medium to form callus.					
	This phenomeno (1) Dedifferentia	on may be called as :	(2) Development			
	(3) Senescence		(4) Differentiation			
Ans.	(1)					
135.	Given below are two statements: Statement I: End arch and exarch are the terms often used for describing the position of secondary xylem in the plant body. Statement II Exarch condition is the most common feature of the root system. In the light of the above					
	statements, choose the correct answer from the options given below:					
	(1) Both Statem	(1) Both Statement I and Statement II are false.				
	(2) Statement I	is correct but Statement II	is false.			
	(3) Statement I	is incorrect but Statement	II is true.			
	(4) Both Statem	ent I and Statement II are	true.			
Ans.	(3)					
136.		the lens-shaped opening	s permitting the exchange	of gases.		
		B. Bark formed early in the season is called hard bark.C. Bark is a technical term that refers to all tissues exterior to vascular cambium.				
	D. Bark refers to	periderm that refers to a periderm and secondary single-layered in thicknes	phloem.	iiai cambium.		
		rect answer from the option				
	(1) A and D only		(2) A, B and D onli	V		

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(4) B, C and E only

(3) B and C only

Ans.

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137. Match List I with List II:

> List I List II

I. More attraction in liquid phase A. Cohesion

B. Adhesion II. Mutual attraction among water molecules

C. Surface tension III. Water loss in liquid phase

D. Guttation IV. Attraction towards polar surfaces

Choose the correct answer from the options given below:

(1) A-IV, B-III, C-II, D-I

(2) A-III, B-I, C-IV, D-II

(3) A-II, B-I, C-IV, D-III

(4) A-II, B-IV, C-I, D-III

Ans.

Match List I with List II 138.

> List I List II

A. M Phase I. Proteins are synthesized

B. G₂ Phase II. Inactive phase

III. Interval between mitosis and initiation of DNA replication C. Quiescent stage

D. G. Phase: IV. Equational division Choose the correct answer from the options given below:

(1) A-IV, B-II, C-I, D-III (2) A-IV, B-I, C-II, D-III

(3) A-II, B-IV, C-I, D-III

(4) A-III, B-II, C-IV, D-I

Ans. (2)

139. Which of the following statements are correct about Klinefelter's Syndrome?

A. This disorder was first described by Langdon Down (1866).

B. Such an individual has overall masculine development. However, the feminine development is also expressed.

C. The affected individual is short statured.

D. Physical, psychomotor and mental development is retarded.

E. Such individuals are sterile. Choose the correct answer from the options given below:

(1) C and D only

(2) B and E only

(3) A and E only

(4) A and B only

Ans. (2)

140. Given below are two statements:

> Statement I: Gause's 'Competitive Exclusion Principle' states that two closely related species competing for the same resources cannot co-exist indefinitely and competitively inferior one will be eliminated eventually.

Statement II: In general, carnivores are more adversely affected by competition than herbivores.

In the light of the above statements, choose the correct answer from the options given below:

(1) Both Statement I and Statement II are false.

- (2) Statement I is correct but Statement II is false.
- (3) Statement I is incorrect but Statement II is true.
- (4) Both Statement I and Statement II are true.

Ans. (2)

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141. How many different proteins does the ribosome consist of?

(1)60

(2)40

(3)20

(4)80

Ans. (4)

142. Which of the following combinations is required for chemiosmosis?

- (1) membrane, proton pump, proton gradient, NADP synthase
- (2) proton pump, electron gradient, ATP synthase
- (3) proton pump, electron gradient, NADP synthase
- (4) membrane, proton pump, proton gradient, ATP synthase

Ans. (4)

- 143. Which one of the following statements is NOT correct?
 - (1) Algal blooms caused by excess of organic matter in water improve water quality and promote fisheries.
 - (2) Water hyacinth grows abundantly in eutrophic water bodies and leads to an imbalance in the ecosystem dynamics of the water body.
 - (3) The amount of some toxic substances of industrial waste water increases in the organisms at successive trophic levels.
 - (4) The micro-organisms involved in biodegradation of organic matter in a sewage polluted water body consume a lot of oxygen causing the death of aquatic organisms.

Ans. (1)

144. Match List I with List II:

> List II List I

(Interaction) (Species A and B)

A. Mutualism **I.** +(A), O(B)B. Commensalism II. (A), O(B)

C. Amensalism III. (A). (B) **D.** Parasitism IV. +(A), (B)

Choose the correct answer from the options given below:

(1) A-IV, B-1, C-II, D-III

(2) A-IV, B-III, C-I, D-II

(3) A-III, B-1, C-IV, D-II

(4) A-IV, B-II, C-1, D-III

Ans.

- Main steps in the formation of Recombinant DNA are given below. Arrange these steps in a correct 145.
 - A. Insertion of recombinant DNA into the host cell.
 - B. Cutting of DNA at specific location by restriction enzyme.
 - C. Isolation of desired DNA fragment. D. Amplification of gene of interest using PCR. Choose the correct answer from the options given below:

(1) C, A, B, D

(2) C, B, D, A

(3) B, D, A, C

(4) B, C, D, A

Ans. (2)

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146. Match List I with List II:

List I List II

A. Iron I. Synthesis of auxin

B. Zinc II. Component of nitrate reductase

C. Boron III. Activator of catalase

D. Molybdenum **IV**. Cell elongation and differentiation

Choose the correct answer from the options given below:

(1) A-II, B-III, C-IV, D-I

(2) A-III, B-I, C-IV, D-II

(3) A-II, B-IV, C-I, D-III

(4) A-III, B-II, C-I, D-IV

Ans. (2)

147. Match List I with List II:

List I List II

A. Oxidative decarboxylation I. Citrate synthase

B. GlycolysisC. Oxidative phosphorylationII. Pyruvate dehydrogenaseIII. Electron transport system

D. Tricarboxylic acid cycle IV. EMP pathway Choose the correct answer from the options given below:

(1) A-II, B-IV, C-I, D-III (2) A-III, B-I, C-II, D-IV

(3) A-II, B-IV, C-III, D-I (4) A-III, B-IV, C-II, D-I

Ans. (3)

148. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R:

Assertion A: In gymnosperms the pollen grains are released from the microsporangium and carried by air currents.

Reason R: Air currents carry the pollen grains to the mouth of the archegonia where the male gametes are discharged and pollen tube is not formed.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false.
- (3) A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.

Ans. (2)

149. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R

Assertion A: A flower is defined as modified shoot wherein the shoot apical meristem changes to floral meristem.

Reason R: Internode of the shoot gets condensed to produce different floral appendages laterally at successive nodes instead of leaves. In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false.
- (3) A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.

Ans. (4)

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- **150.** Melonate inhibits the growth of pathogenic bacteria by inhibiting the activity of
 - (1) Amylase
 - (2) Lipase
 - (3) Dinitrogenase
 - (4) Succinic dehydrogenase
- Ans. (4)
- **151.** Given below are two statements:

Statement I: A protein is imagined as a line, the left end represented by first amino acid (C-terminal) and the right end represented by last amino acid (N-terminal)

Statement II: Adult human haemoglobin, consists of 4 subunits (two subunits of α type and two subunits of β type.)

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both statement I and Statement II are false.
- (2) Statement I is true but Statement II is false.
- (3) Statement I is false but Statement II is true.
- (4) Both statement I and Statement II are true.
- Ans. (3)
- **152.** Radial symmetry is NOT found in adults of phylum
 - (1) Hemichordata
 - (2) Coelenterata
 - (3) Echinodermata
 - (4) Ctenophora
- Ans. (1)
- 153. Which of the following statements are correct regarding female reproductive cycle?
 - A. In non-primate mammals cyclical changes during reproduction are called oestrus cycle.
 - B. First menstrual cycle begins at puberty and is called menopause.
 - C. Lack of menstruation may be indicative of pregnancy.
 - D. Cyclic menstruation extends between menarche and menopause.

Choose the most appropriate answer from the options given below:

(1) A and B only

(2) A, B and C only

(3) A, C and D only

(4) A and D only

Ans. (3)

154. Given below are statements: one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A: Nephrons are of two types: Cortical & Juxta medullary, based on their relative position in cortex and medulla.

Reason R: Juxta medullary nephrons have short loop of Henle whereas, cortical nephrons have longer loop of Henle.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false.
- (3) A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.

Ans. (2)

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Ans.

(1)

155. Match List I with List II with respect to human eye. List I List II A. Fovea I. Visible coloured portion of eye that regulates diameter of pupil. B. Iris II. External layer of eye formed of dense connective tissue. III. Point of greatest visual acuity or resolution. C. Blind spot D. Sclera IV. Point where optic nerve leaves the eyeball and photoreceptor cells are absent. Choose the correct answer from the options given below: (1) A-IV, B-III, C-II, D-I (2) A-I, B-IV, C-III, D-II (3) A-II, B-I, C-III, D-IV (4) A-III, B-I, C-IV, D-II Ans. 156. Which of the following are NOT considered as the part of endomembrane system? A. Mitochondria B. Endoplasmic Reticulum C. Chloroplasts D. Golgi complex E. Peroxisomes Choose the most appropriate answer from the options given below: (2) A and D only (1) A, C and E only (3) A, D and E only (4) B and D only (1) Ans. Broad palm with single palm crease is visible in a person suffering from-157. (1) Turner's syndrome (2) Klinefelter's syndrome (3) Thalassemia (4) Down's syndrome Ans. (4)158. Match List I with List II. List I List II A. P-wave I. Beginning of systole B. Q-wave II. Repolarisation of C. QRS complex ventricles III. Depolarisation of atria D. T wave IV. Depolarisation of ventricles Choose the correct answer from the options given below: (1) A-IV, B-III, C-II, D-I (2) A-II, B-IV, C-I, D-III (3) A-I, B-II, C-III, D-IV (4) A-III, B-I, C-IV, D-II (4)Ans. Which one of the following common sexually transmitted diseases is completely curable when detected 159. early and treated properly? (1) Gonorrhoea (2) Hepatitis-B (3) HIV Infection (4) Genital herpes

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160. Match List I with List II.

List I
(Cells)

A. Peptic cells

B. Goblet cells

List II
(Secretion)

I. Mucus
II. Bile juice

C. Oxyntic cells III. Proenzyme pepsinogen

D. Hepatic cells IV. HCI and intrinsic factor for absorption of vitamin B₁₂

Choose the correct answer from the options given below:

(1) A-II, B-I, C-III, D-IV (2) A-III, B-I, C-IV, D-II (3) A-II, B-IV, C-I, D-III (4) A-IV, B-III, C-II, D-I

Ans. (2)

161. Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A: Endometrium is necessary for implantation of blastocyst.

Reason R: In the absence of fertilization, the corpus luteum degenerates that causes disintegration of endometrium.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false.
- (3) A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.

Ans. (4)

162. Which of the following is not a cloning vector?

(1) YAC (2) pBR322 (3) Probe (4) BAC

Ans. (3)

163. Match List I with List II.

List I List II
A. Taenia I. Nephridia

B. Paramoecium

II. Contractile vacuole

C. Parinlaneta

III. Flame cells

C. Periplaneta III. Flame cells
D. Pheretima IV. Urecose gland
Choose the correct answer from the options give below:

(1) A-I, B-II, C-IV, D-III (2) A-III, B-II, C-IV, D-I

(3) A-II, B-I, C-IV, D-III (4) A-I, B-II, C-III, D-IV

Ans. (2)

164. Given below are two statements:

Statement I: Ligaments are dense irregular tissue.

Statement II: Cartilage is dense regular tissue.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are false.
- (2) Statement I is true but Statement II is false.
- (3) Statement I is false but Statement II is true.
- (4) Both Statement I and Statement II are true.

Ans. (1)

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165. Which of the following functions is carried out by cytoskeleton in a cell?

(1) Protein synthesis

(2) Motility

(3) Transportation

(4) Nuclear division

Ans. (2)

166. Match List I with List II.

List I

List II

A. Gene 'a' I. β-galactosidase B. Gene 'v' II. Transacetylase C. Gene 'i' III. Permease

D. Gene 'z' IV. Repressor protein Choose the correct answer from the options given below:

(1) A-II, B-III, C-IV, D-I

(2) A-III, B-IV, C-I, D-II

(3) A-III, B-I, C-IV, D-II

(4) A-II, B-I, C-IV, D-III

Ans. (1)

167. Which of the following statements is correct?

(1) Biomagnification refers to increase in concentration of the toxicant at successive trophic levels.

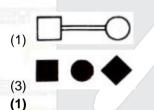
(2) Presence of large amount of nutrients in water restricts 'Algal Bloom'

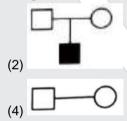
(3) Algal Bloom decreases fish mortality

(4) Eutrophication refers to increase in domestic sewage and waste water in lakes.

Ans. (1)

168. Which one of the following symbols represents mating between relatives in human pedigree analysis?





Ans.

Once the undigested and unabsorbed substances enter the caecum, their backflow is prevented by-169.

(1) lleo caecal valve

(2) Gastro-oesophageal sphincter

(3) Pyloric sphincter

(4) Sphincter of Oddi

Ans. (1)

170. Which one of the following techniques does not serve the purpose of early diagnosis of a disease for its early treatment?

(1) Serum and Urine analysis

(2) Polymerase Chain Reaction (PCR) technique

(3) Enzyme Linked Immuno-Sorbent Assay (ELISA) technique

(4) Recombinant DNA Technology

Ans. (1)

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Given below are two statements:

Statement I: Low temperature preserves the enzyme in a temporarily inactive state whereas high temperature destroys enzymatic activity because proteins are denatured by heat.

Statement II: When the inhibitor closely resembles the substrate in its molecular structure and inhibits the activity of the enzyme, it is known as competitive inhibitor.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are false.
- (2) Statement I is true but Statement II is false.
- (3) Statement I is false but Statement II is true.
- (4) Both Statement I and Statement II are true.

Ans. (4)

Match List I with List II. 172.

> List I List II

(Type of Joint) (Found between)

A. Cartilaginous Joint I. Between flat skull bones

B. Ball and Socket Joint II. Between adjacent vertebrae in vertebral column

C. Fibrous Joint III. Between carpal and metacarpal of thumb D. Saddle Joint IV. Between Humerus and Pectoral girdle

Choose the correct answer from the options given below:

(1) A-II, B-IV, C-I, D-III (2) A-I, B-IV, C-III, D-II

(3) A-II, B-IV, C-III, D-I (4) A-III, B-I, C-II, D-IV

Ans. (1)

173. Given below are two statements:

> Statement I: Vas deferens receives a duct from seminal vesicle and opens into urethra as the ejaculatory duct.

Statement II: The cavity of the cervix is called cervical canal which along with vagina forms birth canal. In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are false.
- (2) Statement I is correct but Statement II is false.
- (3) Statement I incorrect but Statement II is true.
- (4) Both Statement I and Statement II are true.

(4)Ans.

In which blood corpuscles, the HIV undergoes replication and produces progeny viruses?

(1) B-lymphocytes (2) Basophils (3) Eosinophils (4) T_H cells

Ans. (4)

175. Match List I with List II.

> List I List II

A. Heroin I. Effect on cardiovascular system B. Marijuana II. Slow down body function

C. Cocaine III. Painkiller

IV. Interfere with transport of dopamine D. Morphine

Choose the correct answer from the options given below:

(1) A-I, B-II, C-III, D-IV (2) A-IV, B-III, C-II, D-I (3) A-III, B-IV, C-I, D-II (4) A-II, B-I, C-IV, D-III

Ans. (4)

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- **176.** Vital capacity of lung is
 - (1) IRV + ERV + TV + RV
 - (2) IRV + ERV + TV + RV
 - (3) IRV + ERV + TV
 - (4) IRV + ERV
- Ans (3)
- 177. Select the correct group/set of Australian Marsupials exhibiting adaptive radiation.
 - (1) Numbat, Spotted cuscus, Flying Phalanger
 - (2) Mole, Flying squirrel, Tasmanian tiger cat
 - (3) Lemur, Anteater, Wolf
 - (4) Tasmanian wolf, Bobcat, Marsupial mole
- Ans (1)
- 178. Match List I with List II.

	LIST I	LIST II	
A.	CCK	I. k	Cidney
B.	GIP	II. F	leart
C.	ANF	III. G	Sastric gland
D.	ADH	IV. F	Pancreas

Choose the correct answer from the options given below:

- (1) A-III, B-II, C-IV, D-I (2) A-II, B-IV, C-I, D-III (3) A-IV, B-II, C-III, D-I (4) A-IV, B-III, C-II D-I
- Ans (4)
- **179.** Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A and the other is labelled as Reason R.

Assertion A: Amniocentesis for sex determination is one of the strategies of Reproductive and Child Health Care Programme.

Reason R: Ban on amniocentesis checks increasing menace of female foeticide.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true and R is NOT the correct explanation of A.
- (2) A is true but R is false.
- (3) A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.
- Ans (3)
- 180. Given below are two statements:

Statement I: RNA mutates at a faster rate.

Statement II: Viruses having RNA genome and shorter life span mutate and evolve faster.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are false.
- (2) Statement I is true but Statement II is false.
- (3) Statement I false but Statement II is true.
- (4) Both Statement I and Statement II are true.
- Ans (4)

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181. Match List I with List II.

	List I		List II	
A.	Vasecto <mark>my</mark>	SI	Oral method	
B.	Coitus interruptus	II.	Barrier method	
C.	Cervical caps	III.	Surgical method	
D.	Saheli	IV.	Natural method	
Choos	se the correct answer fro	m the or	otions given below:	
(1) A-	II, B-IV, C-II, D-I	(2) A-	II, B-III, C-I, D-IV	
(3) A-	V, B-II, C- <mark>I, D-I</mark> II	(4) A-	III, B-I <mark>, C</mark> -IV, D-II	
(4)				

Ans (1)

182. Given below are two statements:

Statements I: Electrostatic precipitator is most widely used in thermal power plant.

Statements II: Electrostatic precipitator in thermal power plant removes ionising radiations.

In the light of the above statements, choose the **most appropriate** answer from the options given below:

- (1) Both Statement I and Statement II are incorrect.
- (2) Statement I is correct but Statement II is incorrect.
- (3) Statement I incorrect but Statement II is correct.
- (4) Both Statement I and Statement II are correct.

Ans (2)

183. Given below are two statements:

Statement I: In prokaryotes, the positively charged DNA is held with some negatively charged proteins in a region called nucleoid.

Statement II: In eukaryotes, the negatively charged DNA is wrapped around the positively charged histone octamer to form nucleosome.

In the light of the above statements. Choose the correct answer from the option below:

- (1) Both Statement I and Statement II are false.
- (2) Statement I is correct but Statement II is false.
- (3) Statement I incorrect but Statement II is true.
- (4) Both Statement I and Statement II are true.

Ans (3)

184. Match List I with List II.

	List I		List II
A.	Ringworm	J.	Haemophilus influenzsae
B.	Filariasis	II.	Trichophyton
C.	Malaria	III.	Wuchereria bancrofti
D.	Pneumo <mark>nia</mark>	IV.	Plasmod <mark>ium vi</mark> vax
Choo	se the correct ans	swer fr	om the options given below:
(1) A	-II, B-III, C-I, D-IV		(2) A-III, B-II, C-I, D-IV
(3) A	-III, B-II, C- <mark>IV, D</mark> -I		(4) A-II, B <mark>-III,</mark> C-IV, D-I
(4)			

Ans (1)

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RE	asting for better tomorrow	NEET (UG) 2023 DATE: 07-05-2023 BIOLOG
185.	Match List I and List II. List I	List II
	(Interacting species)	(Name of Interaction)
	A. A Leopard and a Lion in a forest/grasslar	nd I. Competition
	B. A Cuckoo laying egg in a Crow's nest	II. Brood parasitism
	C. Fungi and root of a higher plant in Mycor	· · · · · · · · · · · · · · · · · · ·
	D. A cattle egret and a Cattle in a filed	IV. Commensalism
	(1) A-I, B-II, C-IV, D-III (2) A-III, B-IV, C	
	(3) A-II, B-III, C-I, D-IV (4) A-I, B-II, C-II	
Ans	(4)	English and the Second Second
	(4)	
86.	Which of the following statements are correct?	
	A. Basophils are most abundant cells of the	e total WBCs
	B. Basophils secrete histamine, serotonin a	
	C. Basophils are involved in inflammatory re	
	D. Basophils have kidney shaped nucleus	
	E. Basophils are agranulocytes	
	Choose the correct answer from the options give	en below:
	(1) C and E only (2) B and C only	(3) A and B only (4) D and E only
Ans	(2)	(i) Traile Bothly (ii) Braile E only
0	\ - /	
187.	Match List I with List II.	
07.	List I	List II
	A. Mast cells I.	Ciliated epithelium
	B. Inner surface of bronchiole II.	Areolar connective tissue
	C. Blood III.	Cuboidal epithelium
	D. Tubular parts of nephron IV.	specialised connective tissue
	Choose the correct answer from the options give	
	(1) A-II, B-III, C-I, D-IV (2) A-II, B-I, C-IV	
	(3) A-III, B-IV, C-II, D-I (4) A-I, B-II, C-IV	
Ans		7, 0-111
1115	(2)	
100	Salast the correct statements	
188.	Select the correct statements. A. Tetrad formation is seen during Leptoten	
	B. During Anaphase, the centromeres split	
	D. Nucleolus, Golgi complex and ER are re	
	CONTRACT ACTION OF THE PROPERTY OF THE PROPERT	er chromatid of homologous chromosome.
	Choose the correct answer from the options give	
_		(3) B and E only (4) A and C only
Ans	(1)	

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189. In cockroach, excretion is brought about by-

A. Phallic gland

B. Urecose gland

C. Nephrocytes

D. Fat body

E. Collaterial glands

Choose the correct answer from the options given below.:

(1) A, B and E only

(2) B, C and D only

(3) B and D only

(4) A and E only

Ans (2)

190. Given below are two statements:

Statement I: During Go phase of cell cycle, the cell is metabolically inactive.

Statement II: The centrosome undergoes duplication during S phase of interphase. In the light of the above statements, choose the most appropriate answer from the options given below:

(1) Both Statement I and Statement II are incorrect.

(2) Statement I is correct but Statement II is incorrect.

(3) Statement I is incorrect but Statement II is correct.

(4) Both Statement I and Statement II are correct.

Ans (3)

191. Select the correct statements with reference to chordates.

A. Presence of a mid-dorsal, solid and double nerve cord.

B. Presence of closed circulatory system.

C. Presence of paired pharyngeal gillslits.

D. Presence of dorsal heart

E. Triploblastic pseudocoelomate animals.

Choose the correct answer from the options given below:

(1) B and C only

(2) B, D and E only

(3) C, D and E only

(4) A, C and D only

Ans (1)

192. Match List I with List II.

List I

A. Logistic growth

I. Unlimited resource availability condition

B. Exponential growth

II. Limited resource availability growth

C. Expanding age pyramid III. The percent individuals of pre-reproductive age is largest

followed by reproductive and post reproductive age groups

D. Stable age pyramid IV. The percent individuals of pre-reproductives and

reproductive age group are same

Choose the correct answer from the options given below:

(1) A-II, B-III, C-I, D-IV (2) A-II, B-IV, C-I, D-III

(3) A-II, B-IV, C-III, D-I (4) A-II, B-I, C-III, D-IV

Ans (4)

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- 193. Which one of the following is the sequence on corresponding coding strand, if the sequence on mRNA formed is as follows
 - 5' AUCGAUCGAUCGAUCG AUCGAUCG 3'?
 - (1) 3' UAGCUAGCUAGCUAGCUA GCUAGCUAGC 5
 - (2) 5' ATCGATCGATCGATCG ATCGATCG 3'
 - (3) 3' ATCGATCGATCGATCG ATCGATCG 5'
 - (4) 5' UAGCUAGCUAGCUAGCUAGC UAGC 3'
- (2)Ans
- 194. Which of the following is characteristic feature of cockroach regarding sexual dimorphism?
 - (1) Presence of anal styles
 - (2) Presence of sclerites
 - (3) Presence of anal cerci
 - (4) Dark brown body colour and anal cerci
- Ans (1)
- 195. Which of the following statements are correct regarding skeletal muscle?
 - A. Muscle bundles are held together by collagenous connective tissue layer called fascicle.
 - B. Sarcoplasmic reticulum of muscle fibre is a store house of calcium ions.
 - C. Striated appearance of skeletal muscle fibre is due to distribution pattern of actin and myosin proteins.
 - D. M line is considered as functional unit of contraction called sarcomere.

Choose the most appropriate answer from the options given below:

- (1) B and C only
- (2) A, C and D only
- (3) C and D only
- (4) A, B and C only

- Ans (1)
- 196. The unique mammalian characteristics are:
 - (1) hairs, pinna and mammary glands
 - (2) hairs, pinna and indirect development
 - (3) pinna, monocondylic skull and mammary glands
 - (4) hairs, tympanic membrane and mammary glands
- Ans (1)
- 197. Which one of the following is NOT an advantage of inbreeding?
 - (1) It exposes harmful recessive genes that are eliminated by selection.
 - (2) Elimination of less desirable genes and accumulation of superior genes takes place due to it.
 - (3) It decreases the productivity of inbred population, after continuous inbreeding.
 - (4) It decreases homozygosity.
- Ans (3)
- 198. The parts of human brain that helps in regulation of sexual behaviour, expression of excitement, pleasure, rage, fear etc. are:
 - (1) Corpora quadrigemina & hippocampus
- (2) Brain stem & epithalamus
- (3) Corpus callosum and thalamus
- (4) Limbic system & hypothalamus

Ans

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199. Which of the following statements are correct? A. An excessive loss of body fluid from the body switches off osmoreceptors. B. ADH facilitates water reabsorption to prevent diuresis. C. ANF causes vasodilation. D. ADH causes increase in blood pressure. E. ADH is responsible for decrease in GFR. Choose the correct answer from the options given below: (2) A, B and E only (1) B, C and D only (3) C, D and E only (4) A and B only Ans (1) 200. Which of the following are NOT under the control of thyroid hormone? A. Maintenance of water and electrolyte balance B. Regulation of basal metabolic rate C. Normal rhythm of sleep-wake cycle D. Development of immune system E. Support the process of R.B.Cs formation Choose the correct answer from the options given below: (1) B and C only (2) C and D only (4) A and D only (3) D and E only **Ans** (3)

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