1B0520K23 (DAY-1, FIRST SESSION) ವಿಷಯ ಸಮಯ ಸಂಕೇತ ಪ್ರಶೈಪತ್ರಿಕೆಯ ವರ್ಷನ್ B ಚೆ. 10.30 ರಿಂದ 11.50 ರ ವರೆಗೆ ಕ್ರಮ ಸಂಖ್ಯೆ 0133534

ಒ	ಟ್ಟು ಅವಧಿ	ಉತ್ತರಿಸಲು ಇರುವ	ಗರಿಷ್ಟ	ಒಟ್ಟು		*		,00	•
80	ನಿಮಿಷಗಳು	ಗರಿಷ್ಟ ಅವಧಿ 70 ನಿಮಿಷಗಳು	ಅಂಕಗಳು	ಪ್ರಶ್ನೆಗಳು	ನಿಮ್ಮ /	ಸಿಇಟಿ ಸಂಖ	ೈಯನ್ನು ಬ	ರೆಯರಿ	
ಮಾ		, ७० ००० व्यास्	60	60	23UGE			\neg	

- ಕೊಠಡಿ ಮೇಲ್ಡಿಬಾರಕರಿಂದ ಈ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ನಿಮಗೆ ಬೆ. 10.30 ಆದ ನಂತರ ಕೊಡಲಾಗಿರುತ್ತದೆ.
- 2. ಆಭ್ಯರ್ಥಿಗಳು ಸಿಇಟಿ ಸಂಖ್ಯೆಯನ್ನು ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಬರೆದು ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ವೃತ್ತಗಳನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ತುಂಬಿದ್ದೀರೆಂದು ಖಾತ್ರಿಪಡಿಸಿಕೊಳ್ಳಿ. 3. ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯ ವರ್ಷನ್ ಕೋಡ್ ಅನ್ನು ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಬರೆದು ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ವೃತ್ತಗಳನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ತುಂಬಬೇಕು.
- 4. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ವರ್ಷನ್ ಕೋಡ್ ಮತ್ತು ಕ್ರಮ ಸಂಖ್ಯೆಯನ್ನು ನಾಮಿನಲ್ ರೋಲ್ ನಲ್ಲಿ ತಪ್ಪಿಲ್ಲದೆ ಬರೆಯಬೇಕು.
- 5. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯ ಕೆಳಭಾಗದ ನಿಗದಿತ ಜಾಗದಲ್ಲಿ ಪೂರ್ಣ ಸಹಿ ಮಾಡಬೇಕು.

ಮಾಡಬೇಡಿ

- ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಮುದ್ರಿತವಾಗಿರುವ ಟೈಮಿಂಗ್ ಮಾರ್ಕನ್ನು ತಿದ್ದದಾರದು / ಹಾಳುಮಾಡದಾರದು / ಅಳಿಸದಾರದು. 2. ಮೂರನೇ ಬೆಲ್ ಬೆ. 10.40 ಕೈ ಆಗುತ್ತದೆ. ಅಲ್ಲಿಯವರೆಗೂ,
 - ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಬಲಭಾಗದಲ್ಲಿರುವ ಸೀಲ್ ಅನ್ನು ತೆಗೆಯಬಾರದು.
 - ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಒಳಗಡೆ ಇರುವ ಪ್ರಶ್ನೆಗಳನ್ನು ನೋಡಲು ಪ್ರಯತ್ನಿಸಬಾರದು ಅಥವಾ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಉತ್ತರಿಸಲು

ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಮುಖ್ಯ ಸೂಚನೆಗಳು

- ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಬಳಸಿರುವ SIGNS AND SYMBOLS ಗಳನ್ನು, ಬೇರೆ ರೀತಿಯಲ್ಲಿ ಹೇಳದ ಹೊರತು, ನಿಗದಿತ ಪಠ್ಯವುಸ್ತಕದಲ್ಲಿನ ಅರ್ಥವನ್ನು ಪರಿಗಣಿಸಬೇಕು.
- 2. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಒಟ್ಟು 60 ಪ್ರಶ್ನೆಗಳಿದ್ದು, ಪ್ರತಿ ಪ್ರಶ್ನೆಗೂ 4 ಬಹು ಆಯ್ಕೆ ಉತ್ತರಗಳು ಇರುತ್ತವೆ. ಪ್ರತಿಪ್ರಶ್ನೆಯ ಕೆಳಗೆ ಕೊಟ್ಟಿರುವ ನಾಲ್ಕು ಬಹು ಆಯ್ಕೆಯ ಉತ್ತರಗಳಲ್ಲಿ ಸರಿಯಾದ ಒಂದು ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ.
- 3. ಮೂರನೇ ಬೆಲ್ ಅಂದರೆ ಬೆ. 10.40ರ ನಂತರ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಬಲಭಾಗದಲ್ಲಿರುವ ಸೀಲ್ ತೆಗೆದು ಈ ಪ್ರಶ್ವೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯಾವುದೇ ಮಟಗಳು ಮುದ್ರಿತವಾಗಿಲ್ಲದೇ ಇರುವುದು ಕಂಡು ಬಂದಲ್ಲಿ ಅಥವಾ ಹರಿದು ಹೋಗಿದ್ದಲ್ಲಿ ಅಥವಾ ಯಾವುದೇ ಐಟಂಗಳು ಬಿಟ್ಟುಹೋಗಿದೆಯೇ ಎಂಬುದನ್ನು ಖಚಿತಪಡಿಸಿಕೊಂಡು, ಈ ರೀತಿ ಆಗಿದ್ದರೆ ಕೂಡಲೇ ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯನ್ನು ಬದಲಾಯಿಸಿಕೊಳ್ಳುವುದು ನಂತರ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ
- 4. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿನ ಪ್ರಶ್ನೆಗೆ ಅನುಗುಣವಾಗಿರುವ ಸರಿ ಉತ್ತರವನ್ನು ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಅದೇ ಕ್ರಮ ಸಂಖ್ಯೆಯ ಮುಂದೆ ನೀಡಿರುವ ಸಂಬಂಧಿಸಿದ ವೃತ್ತವನ್ನು **ನೀಲಿ ಅಥವಾ ಕಮ್ಪ** ಶಾಯಿಯ ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ ನಿಂದ ಸಂಪೂರ್ಣ ತುಂಬುವುದು.

1	ಸರಿಯಾದ ಕ್ರಮ	ತಪ್ಪುಕ್ರಮಗಳು WRONG METHODS								13			
	A © D		B B	© ©	(D)	(A) (A)		© ©	D	A			D

- 5. ಈ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯನ್ನು ಸ್ಕ್ಯಾನ್ ಮಾಡುವ ಸ್ಕ್ಯಾನರ್ ಬಹಳ ಸೂಕ್ಷ್ಮವಾಗಿದ್ದು ಸಣ್ಣ ಗುರುತನ್ನು ಸಹ ದಾಖಲಿಸುತ್ತದೆ. ಆದ್ದರಿಂದ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಉತ್ತರಿಸುವಾಗ ಎಚ್ಚರಿಕೆ ವಹಿಸಿ.
- 6. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಕೊಟ್ಟಿರುವ ಖಾಲಿ ಜಾಗವನ್ನು ರಫ್ ಕೆಲಸಕ್ಕೆ ಉಪಯೋಗಿಸಿ. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯನ್ನು ಇದಕ್ಕೆ ಉಪಯೋಗಿಸಬೇಡಿ.
- 7. ಕೊನೆಯ ಬೆಲ್ ಅಂದರೆ ಬೆ. 11.50 ಆದ ನಂತರ ಉತ್ತರಿಸುವುದನ್ನು ನಿಲ್ಲಿಸಿ.
- 8. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯನ್ನು ಕೊಠಡಿ ಮೇಲ್ವಿಚಾರಕರಿಗೆ ಯಥಾಸ್ಥಿತಿಯಲ್ಲಿ ನೀಡಿರಿ.
- 9. ಕೊಠಡಿ ಮೇಲ್ವಿಚಾರಕರು ಮೇಲ್ಭಾಗದ ಹಾಳೆಯನ್ನು ಪ್ರತ್ಯೇಕಿಸಿ (ಕಚೇರಿ ಪ್ರತಿ) ತನ್ನ ವಶದಲ್ಲಿ ಇಟ್ಟುಕೊಂಡು ತಳಬದಿಯ ಯಥಾಪ್ರತಿಯನ್ನು (Candidate's Copy) ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಕೊಡುತ್ತಾರೆ.

ಸೂಚನೇ ಕನ್ನಡ ಆವೃತ್ತಿಯ ಪ್ರಸ್ತೆಗಳಲ್ಲಿ ಉತ್ತಂಸುವ ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಕನ್ನಡದಲ್ಲಿ ಮುದ್ರಿತವಾಗಿರುವ ಪ್ರಸ್ತೆಗಳ ಬಗ್ಗೆ ಏನಾದರೂ ಸಂದೇಹವಿದ್ದಲ್ಲಿ ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಯ ಪ್ರಶ್ನಿಪತ್ರಿಕೆಯನ್ನು ನೋಡಬಹುದು. ಏನಾದರೂ ವ್ಯತ್ಯಾಸ ಕಂಡುಬಂದಲ್ಲಿ ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಯನ್ನು ಅಂತಿಮ ಎಂದು ಪಂಗಣಿಸಲಾಗುವುದು.

B **B-4**





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BIOLOGY

1.	The Lac-Operon model was elucidated by	
	(-1) vicoo and Crick	(B) Watson and Crick
	(C) François Jacob and Jaques Monad	(D) Hershey and Chase
2.	Which of these is NOT an example for Ada (C) Australian marsupials	
3.	In a population of	
	(A) 0.36 (B) 0.4	(C) 0.48 (D) 0.64
4.	In male heterogametic type of sex determin (A) Males do not produce	
	(A) Males do not produce gametes. (B) Male parent produces similar gametes. (C) Female parent produces dissimilar gametes. (D) Male parent produces dissimilar gamet	
5. 1.	In one of the hybridisation experiments, a large recessive parent are crossed for a trait. (Plant (A) Dominant parent trait appears in E. garden.	nomozygous dominant parent and a homozygous at shows Mendelian inheritance pattern)
	F_1 generation.	ieration and recessive parent trait appears only in
		eneration and recessive parent trait appears in F ₂
	J = 2 Beneration.	& F ₂ generations, recessive parent trait appears
	(D) Dominant parent trait appears in F_1 ge and F_2 generations.	neration and recessive parent trait appears in F ₁
6.]	Histone proteins are positively charged beca	lise they are rich in t
	(A) Arginine and Proline	(B) Arginine and Alanine
	(C) Arginine and Lysine	(D) Arginine and Phenylalanine
7.	Eukaryotic genes are monocistronic but they	are split genes because
((A) Introns are interrupted with Mutons.	(B) they contain Exons only.
	(C) they contain Introns only.	(D) Exons are interrupted by Introns.
	Space For R	ough Work

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8.	Identify from the following a pair of better y India.	ielding semi dwarf varieties of rice developed in
	(A) Kalyan Sona and Sonalika	(B) Jaya and Ratna
	(C) Sonalika and Ratna	(D) Jaya and Kaliyan Sona
9.	following stage?	asferred into surrogate mother in which of the
	(A) 16-32 celled stage (B) 2-4 celled stage	(C) 8-16 celled stage (D) 8-32 celled stage
10.	Roquefort cheese is ripened by	
	(A) Yeast (B) Bacterium	(C) Fungi (D) Virus
11.	follows:	et to find out the pollution levels of lakes in their water samples, the BOD values were found as
	Which among the following water samples is	s highly polluted?
	(A) 0.16 mg/L (B) 0.6 mg/L	(S) 0.06 mg/L (D) 6 mg/L
12.	The toxic substance 'haemozoin' responsible the following diseases?	e for high fever and chill, is released in which of
	(A) Typhoid (B) Dengue	(C) Pneumonia (D) Malaria
13.	Identify the symptoms of pneumonia.	
	(A) High fever, weakness, stomach pain, los	
	(B) Difficulty in breathing, fever, chills, con	
	(C) Nasal congestion and discharge, cough,	sore throat, headache 🛩
	(D) Constipation, Abdominal pain, cramps,	blood clots
14.		t to which of the following insect pests?
	(A) Cereal leaf beetle	(B) Aphids
	(C) Jassids	(D) Shoot & Fruit borer
15.	With respect to Inbreeding, which among th	
	(A) It helps to evolve a pure line in an anim	
	(B) Inbreeding decreases homozygosity.	The professional and the state of the state
	(C) It helps in accumulation of superior ger	
	(D) It helps in elimination of less desirable	genes.
NAT.	Space For R	ough Work
	Space Pol K	ough Work



- Generally, bears avoid winter by undergoing 16.
 - (A) Migration
- (B) Diapause
- (C) Hibernation
- (D) Aestivation
- Match Column-I with Column-II. Select the option with correct combination. 17.

Column-I

Column-II

- 1. Standing state
- Mass of living material at a given time.
- 2. Pioneer species
- Amount of nutrients in the soil at a given time. q.
- 3. Detritivores
- Species that invade a bare area. r.
- 4. Standing crop
- Breakdown detritus into smaller particles.
- (A) 1-p, 2-s, 3-r, 4-q
- (B) 1-q, 2-r, 3-p, 4-s
- (C) 1-p, 2-r, 3-s, 4-q
- (D) 1-q, 2-r, 3-s, 4-p
- 18. PCR is used for
 - (A) DNA amplification

(B) DNA isolation

(C) DNA ligation

- (D) DNA digestion
- 19. Which of these is NOT a method to make host cells 'competent' to take up DNA?
 - (A) Use of disarmed pathogen vectors
- (B) Micro-injection

(C) Elution

- (D) Biolistics
- 20. Select the correct statement from the following:
 - (A) DNA from one organism will not band to DNA from other organism.
 - (B) Genetic engineering works only on animals and not yet successfully used on plants.
 - (C) There are no risk factors associated with r-DNA technology.
 - (D) The first step in PCR is heating which is used to separate both the strands of gene of interest.
- Choose the incorrect statement with reference to Kangaroo rat. 21.
 - (A) eliminates dilute urine.
 - (B) found in North American desert.
 - (C) meets its water requirements through internal fat oxidation.
 - (D) uses minimal water to remove excretory products.





- 22. During transcription the DNA strand with 3' → 5' polarity of the structural gene always acts as a template because
 - (A) Nucleotides of DNA strand with $5' \rightarrow 3'$ are transferred to mRNA.
 - (B) Enzyme DNA dependent RNA polymerase always catalyse the polymerisation in $5' \rightarrow 3'$ direction.
 - (C) Enzyme DNA dependent RNA polymerase always catalyse the polymerisation in $3' \rightarrow 5'$ direction.
 - (D) Enzyme DNA dependent RNA polymerase always catalyse polymerisation in both the directions.
- 23. According to David Tilman's long term ecosystem experiments, the total biomass in plots with more species shows,
 - (A) No variation from year-to-year.
 - (B) Less variation from year-to-year.
 - (C) High variation from year-to-year.
 - (D) Average variation from year-to-year.
- 24. The toxic heavy metals from various industries which cause water pollution, normally have a density
 - (A) more than 12.5 g/cm³

(B) more than 5 g/cm³

(C) more than 15 g/cm³

- (D) more than 7.5 g/cm³
- 25. Identify the correct option showing the relative contribution of different green house gases to the total global warming.
 - (A) CFC-14%, CO₂-60%, Methane-6%, N₂O-20%.
 - (B) CFC-14%, CO₂-60%, Methane-20%, N₂O-6%.
 - (C) CFC-20%, CO₂-60%, Methane-14%, N₂O-6%.
 - (D) CFC-6%, CO₂-60%, Methane-20%, N₂O-14%.
- 26. A flower has 10 stamens each having bilobed dithecous anther. If each microsporangium has 5 pollen mother cells, how many pollen grains would be produced by the flower?
 - (A) 1600
- (B) 200
- (C) 400
- (D) 800



2 450 10 -5

- 27. From the following tools / techniques of genetic engineering, identify those which are required for cloning a bacterial gene in animal cells and choose the correct option:
 - I. Endonuclease
 - III. A. tumefaciens
 - V. Gene gun
 - VII. Cellulase
 - (A) II, III, IV, VI, VII, VIII
 - (C) I, II, IV, VI, VIII

- II. Ligase
- IV. Microinjection
- VI. Lysozyme
- VIII. Electrophoresis
 - (B) II, III, V, VII, VIII
 - (D) I, III, IV, V, VII
- 28. Identify the incorrect statement regarding the flow of energy between various components of the food chain.
 - (A) Each trophic level loses some energy as heat to the environment.
 - (B) The amount of energy available at each trophic level is 10% of previous trophic level.
 - (C) Energy flow is unidirectional.
 - (D) Green plants capture about 10% of the solar energy that falls on leaves.
- 29. Find out the correct match.

	Disease	Pathogen	Main organ affected
(A)	Dysentery	Protozoa	Liver
(B)	Ringworm	Fungus	Skin
(C)	Typhoid	Bacteria	Lungs
(D)	Filariasis	Common round worm	Small intestine

30. Match the following columns and choose the correct option:

Column-II Column-I Malignant malaria Haemophilus influenzae p. Elephantiasis Entamoeba histolytica 2. Pneumonia Plasmodium falciparum 3. r. Amoebiasis Wuchereria bancrofti 4. 3 2 p q (B) q r p (e) r S q p



(D) s

Space For Rough Work

12

- 31. When the vascular cambium is present between the xylem and phloem, then the vascular bundle is called,
 - (A) Closed
- (B) Exarch
- (C) Open
- (D) Endarch

- The function of Typhlosole in earthworm is 32.
 - (A) Increasing the effective area of absorption in the intestine
 - (B) Grinding of soil particles
 - (C) Grinding of decaying leaves
 - (D) Transportation
- 33. Select the correctly matched pair of organisms with their order.
 - Mangifera, indica (A)

Primata Y

Triticum, aestivum (B)

Sapindales

(C)Musa, domestica

Diptera

(D) Homo, sapiens

Poales +

34. Match the column-I with column-II and choose the correct option from the following:

Column-I (Plant groups)

Column-II (Examples)

- 1. Bryophyta
- 2. Gymnosperm
- 3. Algae
- 4. Pteridophyta
 - 2 4
- (A) q r
- (B) s p
- P.

- **Pinus** p.
- q. Adiantum
- Sphagnum r.
- s. Ectocarpus

- Flame cells present in the members of platyhelminthes are specialized to perform, 35.
 - (A) Respiration and Osmoregulation
 - (B) Osmoregulation and Circulation
 - (C) Osmoregulation and Excretion
 - (D) Respiration and Excretion
- Identify the floral formula of plant belonging to potato family. 36.
 - (A) \vec{Q} , $K_{(5)}$, C_5 , $A_{(9)+1}$, G_1

(B) ϕ , $K_{(5)}$, $C_{(5)}$, A_5 , $G_{(2)}$

(C) \vec{Q} , K_{10} , C_{10} , A_{10} , \vec{G}_2

(D) \$\dip \text{P}_{3+3}, A_{3+3}, G_{(3)}

B-4

37.	Toxicity of which micronutrient induces defice (A) Boron (B) Zinc	iency of iron, magnesium and calcium? (C) Molybdenum (D) Manganese	
R Care			
38.	Considering the stroke volume of an adult	healthy human being is 70 mL, identify th	ıe
	cardiac output in one hour from the following	-> 000 4 T '//	
	(A) 50.40 Lit/hour (B) 504.0 Lit/hour	(C) 30.24 Lit/hour (D) 302.4 Lit/hour	
39.	Function of contractile vacuole in Amoeba is	1ation	
	(A) Digestion and excretion	(B) Excretion and osmoregulation	
	(C) Digestion and respiration	(D) Osmoregulation and movements	
40.	Match List-I and List-II with respect to prot	eins and their functions and select the correc	ct
	option.	the second of the design of the second of th	

List-I List-II Collagen Fights infectious agents p. 2. Trypsin Hormone q. 3. Insulin 🗸 Enzyme r. 4. Antibody Intercellular ground substance s. (A) 1-s, 2-p, 3-r, 4-p (B) 1-q, 2-r, 3-q, 4-s (C) 1-s, 2-q, 3-r, 4-p(D) 1-s, 2-r, 3-q, 4-p

41. The complex formed by a pair of synapsed homologous chromosomes is called,
(A) Univalent (B) Pentavalent (C) Triad (D) Bivalent

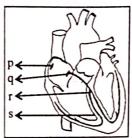
42. Match column-I with column-II. Select the option with correct combination.

Column-I 1. Hypertonic p. Two molecules move in the same direction across the membrane. 2. Capillarity q. External solution is more concentrated than cell sap. 3. Symport r. Water loss in the form of droplets. 4. Guttation s. Ability of water to rise in thin tubes. (A) 1-q, 2-s, 3-p, 4-r (B) 1-q, 2-s, 3-r, 4-p (C) 1-q, 2-r, 3-p, 4-s (D) 1-q, 2-p, 3-s, 4-r



- 43. In Bryophyllum, the adventitious buds arise from
 - (A) Leaf base

- (B) Leaf axil
- (E) Notches in the leaf margin
- (D) Shoot apex
- 44. Primary endosperm nucleus is formed by fusion of
 - (A) Two polar nuclei and two male gametes
 - (B) Two polar nuclei and one male gamete
 - (C) Ovum and male gamete
 - (D) One polar nucleus and male gamete
- 45. Identify the option showing the correct labelling for p, q, r and s with reference to the conducting system of the human heart.



- (A) p- Interventricular septum, q-AVN, r-Bundle of His, s-SAN
- (B) p-SAN, q-AVN, r-Bundle of His, s-Interventricular septum
- (C) p-AVN, q-SAN, r-Interventricular septum, s-Bundle of His
- (D) p-Bundle of His, q-SAN, r-Interventricular septum, s-AVN
- 46. Atrial Natriuretic Factor (ANF) acts as a
 - (A) Hypertension inducer X
 - (B) Check on Renin-Angiotensin mechanism
 - (C) Promoter on Renin-Angiotensin mechanism
 - (D) Vasoconstricter
- 47. The vibrations from the ear drum are transmitted through ear ossicles to
 - (A) Auditory nerves *

(B) Cochlea

(C) Oval window

(D) Tectorial membrane

- 48. Bamboo species flowers
 - (A) Twice in 50-100 years

(B) Every year

(C) Once in 12 years

(D) Once in lifetime



Space For Rough Work

(1B0520K23) B

With reference to human sperm, match the List-I with List-II. 49.

List-I

List-II

- 1. Head
- Filled with enzyme p.
- 2. Acrosome
- Contains mitochondria q.
- 3. Middle piece
- Sperm motility r.

4. Tail

Contains haploid nucleus S.

Choose the correct option from the following:

- (A) 1-r, 2-q, 3-s, 4-p
- (B) 1-s, 2-p, 3-q, 4-r.
- (C) 1-s, 2-r, 3-p, 4-q.
- (D) 1-q, 2-s, 3-r, 4-p

Which pair of the following cells in the embryo sac are destined to change their ploidy after **50.**

(A) Egg cell and central cell

(B) Antipodals and synergids

(C) Synergids and egg cell

(D) Central cell and antipodals

51. In the female reproductive system, a tiny finger like structure which lies at the upper junction of the two labia minora above the urethral opening is called

- (A) Vagina
- (B) Hymen ⊀
- (C) Mons pubis

52. Consider the following statements with reference to female reproduction system:

Statement 1. The presence or absence of hymen is not a reliable indicator of virginity or sexual experience.

Statement 2. The sex of the foetus is determined by the father and not by the mother.

Choose the correct option from the following:

- (A) Both the Statement 1 and Statement 2 are wrong.
- (B) Statement 1 is correct and Statement 2 is wrong.
- (C) Both the Statement 1 and Statement 2 are correct.
- (D) Statement 1 is wrong and Statement 2 is correct.

The male sex accessory ducts include, 53.

- (A) Rete testis, vasa efferentia, epididymis and vas deferens
- (B) Rete testis, vasa efferentia, epididymis and seminal vesicle
- LET Rete testis, urethra, epididymis and vas deferens
 - (D) Rete testis, vasa efferentia, seminal vesicle and vas deferens



54.	Which of the following statements is correct	?	e de la companya della companya della companya de la companya della companya dell				
	(B) Thalassemia is a qualitative problem.						
	(C) Change in whole set of chromosomes is called an euploidy.(D) Sickle cell anaemia is a quantitative problem.						
55.	'Gene-mapping' technology was developed i	,					
	(A) Mendel (B) Tschermak	(C) Correns	Sturtvent Sturtvent				
56.	Find the correct statement.						
ish with	 Generally a gene regulates a trait, but so The trait AB-blood group of man is recessive allele. Hence it is co-dominant 		gene has effect on multiple traits. one dominant allele and another				
	(A) Both the Statements are wrong	(B) Stateme	ent (1) is correct.				
THE PARTY	(C) Statement (2) is correct.	(D) Both St	atements (1) and (2) are correct.				
57.	From the following table, select the option menstrual cycle:	that correctly	characterizes various phases of				
7.70	Menstruation phase Follicula	r nhasa	Luteal phase				
	Regeneration of High level of prendometrium		Developing corpus				
	(B) Matured follicle Regression of c	orpus luteum	Ovulation				
	(C) Menses Developing cor	pus luteum	Follicle maturation				
	(D) Menses L.H. Surge		Regeneration of endometrium				
58.	Which of the following is abbreviated as ZIF	YT O					
	(A) Zygote Inter Fallopian Tube	and the second second	Turker To 11				
	(C) Zygote Inter Fallopian Transfer	(D) Zygote	Intra Fallopian Transfer Intra Fallopian Tube				
59.	An example for hormone releasing IUD is						
	(A) Implant (B) LNG-20	(C) Multilo	ad 375 (D) Lippes loop				
60.	MTPs are considered relatively safe during						
	(A) First trimester	(B) Second	trimestan				
	(C) 24 weeks of pregnancy	(D) 180 day	s of pregnancy				
1	, Space For Ro	on Party addition of					

