Entrance Exam

2024



QUESTION PAPER

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1B0418K24 (DAY-1, FIRST SESSION)

ವಿಷಯ ಸಂಕೇತ	ಸಮಯ	ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ	
		ವರ್ಷನ್ ಕೋಡ್	ಕ್ರಮ ಸಂಖ್ಯೆ
B	ಬೆ. 10.30 ರಿಂದ 11.50 ರ ವರೆಗೆ	**A-2**	1159826

ಒಟ್ಟು ಅವಧಿ	ಉತ್ತರಿಸಲು ಇರುವ ಗರಿಷ್ಟ ಅವಧಿ	ಗರಿಷ್ಟ ಅಂಕಗಳು	ಒಟ್ಟು ಪ್ರಶ್ನೆಗಳು	ನಿಮ್ಮ ಸಿಇಟಿ ಸಂಖ್ಯೆಯನ್ನು ಬರೆಯಿರಿ
80 ನಿಮಿಷಗಳು	70 ನಿಮಿಷಗಳು	60	60	2 1 5 1 0 0 0 1 8

ಮಾಡಿ :

1. ಕೊಠಡಿ ಮೇಲ್ವಿಚಾರಕರಿಂದ ಈ ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯನ್ನು ನಿಮಗೆ **ಬೆ. 10.30** ಆದ ನಂತರ ಕೊಡಲಾಗಿರುತ್ತದೆ.
2. ಅಭ್ಯರ್ಥಿಗಳು 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. ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯ ವರ್ಷನ್ ಕೋಡ್ ಮತ್ತು ಕ್ರಮ ಸಂಖ್ಯೆಯನ್ನು ನಾಮಿನಲ್ ರೋಲ್‌ನಲ್ಲಿ ತಪ್ಪಿಲ್ಲದೆ ಬರೆಯಬೇಕು.
5. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯ ಕೆಳಭಾಗದ ನಿಗದಿತ ಜಾಗದಲ್ಲಿ ಪೂರ್ಣ ಸಹಿ ಮಾಡಬೇಕು.

ಮಾಡಬೇಡಿ :

1. **ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಮುದ್ರಿತವಾಗಿರುವ ಟೈಮಿಂಗ್ ಮಾರ್ಕನ್ನು ತಿದ್ದಬಾರದು / ಹಾಳುಮಾಡಬಾರದು / ಅಳಿಸಬಾರದು.**
2. **ಮೂರನೇ ಬೆಲ್ ಬೆ. 10.40 ಕ್ಕೆ ಆಗುತ್ತದೆ,** ಅಲ್ಲಿಯವರೆಗೂ;
   - ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಬಲಭಾಗದಲ್ಲಿರುವ ಸೀಲ್ ಅನ್ನು ತೆಗೆಯಬಾರದು.
   - ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಒಳಗಡೆ ಇರುವ ಪ್ರಶ್ನೆಗಳನ್ನು ನೋಡಲು ಪ್ರಯತ್ನಿಸಬಾರದು ಅಥವಾ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಉತ್ತರಿಸಲು ಪ್ರಾರಂಭಿಸಬಾರದು.

ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಮುಖ್ಯ ಸೂಚನೆಗಳು

1. ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಬಳಸಿರುವ SIGNS AND SYMBOLS ಗಳನ್ನು, ಬೇರೆ ರೀತಿಯಲ್ಲಿ ಹೇಳದ ಹೊರತು, ನಿಗದಿತ ಪಠ್ಯಪುಸ್ತಕದಲ್ಲಿನ ಅರ್ಥವನ್ನು ಪರಿಗಣಿಸಬೇಕು.
2. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಒಟ್ಟು 60 ಪ್ರಶ್ನೆಗಳಿದ್ದು, ಪ್ರತಿ ಪ್ರಶ್ನೆಗೂ 4 ಬಹು ಆಯ್ಕೆ ಉತ್ತರಗಳು ಇರುತ್ತವೆ. ಪ್ರತಿ ಪ್ರಶ್ನೆಯ ಕೆಳಗೆ ಕೊಟ್ಟಿರುವ ನಾಲ್ಕು ಬಹು ಆಯ್ಕೆಯ ಉತ್ತರಗಳಲ್ಲಿ ಸರಿಯಾದ ಒಂದು ಉತ್ತರವನ್ನು ಆಯ್ಕೆಮಾಡಿ.
3. **ಮೂರನೇ ಬೆಲ್ ಅಂದರೆ ಬೆ. 10.40** ರ ನಂತರ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಬಲಭಾಗದಲ್ಲಿರುವ ಸೀಲ್ ತೆಗೆದು ಈ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯಾವುದೇ ಪುಟಗಳು 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 ಉತ್ತರಿಸಲು ಪ್ರಾರಂಭಿಸುವುದು.
4. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿನ ಪ್ರಶ್ನೆಗೆ ಅನುಗುಣವಾಗಿರುವ ಸರಿ ಉತ್ತರವನ್ನು ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಅದೇ ಕ್ರಮ ಸಂಖ್ಯೆಯ ಮುಂದೆ ನೀಡಿರುವ ಸಂಬಂಧಿಸಿದ ವೃತ್ತವನ್ನು **ನೀಲಿ ಅಥವಾ ಕಪ್ಪು ಶಾಯಿಯ ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್‌ನಿಂದ** ಸಂಪೂರ್ಣ ತುಂಬುವುದು.

ಸರಿಯಾದ ಕ್ರಮ CORRECT METHOD	ತಪ್ಪು ಕ್ರಮಗಳು WRONG METHODS
(A) ● (C) (D)	(A) (B) (C) (D) (A) (B) (C) ✓ (D) ● ● (D)
	(A) (B) (C) (D) (A) ● (C) (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 ಮೇಲ್ಕಾಗದ ಹಾಳೆಯನ್ನು ಪ್ರತ್ಯೇಕಿಸಿ (ಕಚೇರಿ ಪ್ರತಿ) ತನ್ನ ವಶದಲ್ಲಿ ಇಟ್ಟುಕೊಂಡು ತಳಬದಿಯ ಯಥಾಪ್ರತಿಯನ್ನು (Candidate's Copy) ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಕೊಡುತ್ತಾರೆ.

ಸೂಚನೆ : ಕನ್ನಡ ಆವೃತ್ತಿಯ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಉತ್ತರಿಸುವ ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಕನ್ನಡದಲ್ಲಿ ಮುದ್ರಿತವಾಗಿರುವ ಪ್ರಶ್ನೆಗಳ ಬಗ್ಗೆ ಏನಾದರೂ ಸಂದೇಹವಿದ್ದಲ್ಲಿ ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಯ ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯನ್ನು ನೋಡಬಹುದು. ಏನಾದರೂ ವ್ಯತ್ಯಾಸ ಕಂಡುಬಂದಲ್ಲಿ ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಯನ್ನು ಅಂತಿಮ ಎಂದು ಪರಿಗಣಿಸಲಾಗುವುದು.

1. The functional unit of contraction is a

(A) Portion of myofibril between two successive Z-lines
(B) Portion of myofibril between two successive M-lines
(C) Centre of the H-zone
(D) Centre of the I-band

2. Match the parts of the brain given in List I with their functions given in List II.

List I (*Parts of the brain*)		*List II* (*Functions*)
1. Medulla oblongata	p.	Body temperature
2. Hypothalamus	q.	Olfaction
3. Cerebral cortex	r.	Respiration
4. Limbic system	s.	Motor function

Choose the correct option from the following :

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

3. Hydra reproduces asexually by producing

(A) Zoospores
(B) Conidia
(C) Buds
(D) Gemmule

4. When male and female gametes are morphologically distinct, the condition is known as

(A) Homogametes
(B) Heterogametes
(C) Hermaphrodites
(D) Sexual Dimorphism

5. The typical 'lub-dub' sounds heard during heartbeat are produced due to

(A) Closure of semilunar valves
(B) Closure of bicuspid and tricuspid valves
(C) Closure of bicuspid and tricuspid valves followed by semilunar valves
(D) Opening of bicuspid and tricuspid valves followed by semilunar valves

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6. The Government of India legalised MTP with some strict regulations in the year

(A) 1951 (B) 1961 (C) 1971 (D) 2001

7. The process in which a small part of the vas deferens is removed or tied up through a small incision, is called

(A) MTP (B) Vasectomy

(C) Tubectomy (D) GIFT

8. Test cross in Pea plant is

(A) A cross between F_2 tall plant and recessive parent.

(B) A cross between F_2 dwarf plant and recessive parent.

(C) A cross between F_2 tall plant with dominant parent.

(D) A cross between two F_1 plants.

9. The genotype ratio of incomplete dominance is

(A) 3 : 1 (B) 1 : 2 : 1

(C) 1 : 1 : 2 (D) 9 : 3 : 3 : 1

10. Find the ***incorrect*** statement among the following :

(A) In sex linked recessive traits the gene is transmitted from unaffected carrier female to some of male progeny.

(B) Accumulation of phenylpyruvic acid in brain results in mental retardation.

(C) Individuals affected by Down's Syndrome will have congenital heart defect and are more intelligent.

(D) Turner's Syndrome is caused due to the absence of one X-chromosome.

11. In a dihybrid cross between a true breeding round yellow seeded and true breeding wrinkled green seeded pea plant, the ratio of segregation of round and wrinkled seed traits in F_2 is

(A) 9 : 1 (B) 3 : 1 (C) 9 : 3 (D) 3 : 3

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12. The mRNA has Untranslated Regions (UTRs)

(A) At 3′-end beyond Terminator codon.

(B) At 5′-end before AUG.

(C) At both 3′-end and 5′-end beyond Terminator codon and before AUG respectively.

(D) AUG and Terminator codon flanks the UTR.

13. In Structural gene, the template DNA strand has nucleotide sequences 3′-ATGCATGCATGCATGC-5′. Find the correct and complimentary nucleotide sequence on coding strand.

(A) 5′-ATGCATGCATGCATGC-3′ (B) 3′-GCATGCATGCATGCAT-5′

(C) 5′-TACGTACGTACGTACG-3′ (D) 3′-TACGTACGTACGTACG-5′

14. Read the following statements :

Statement I : All vertebrates develop a row of vestigial gill slits during embryonic stage.

Statement II : Embryos always pass through the adult stages of other animals.

Which of the following options is correct with reference to these statements ?

(A) Statement I is correct, Statement II is incorrect.

(B) Statement I is incorrect, Statement II is correct.

(C) Both Statements I and II are correct.

(D) Both Statements I and II are incorrect.

15. Following representations P, Q and R denote few steps of Griffith Experiment. Identify the correct one(s).

P. R strain → Inject into mice → Mice die

Q. S strain (Heat killed) → Inject into mice → Mice die

R. R strain → Inject into mice → Mice live

(A) P only (B) R only (C) P and R (D) Q and R

16. In tRNA the region that binds with mRNA is

(A) Anticodon loop of tRNA. (B) Amino acid acceptor end of tRNA.

(C) Amino acyl synthetase loop of tRNA. (D) Ribosomal binding loop of tRNA.

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17. Identify the bacterial disease among the following :

(A) Brown rust of wheat
(B) Tobacco mosaic disease
(C) Black rot of crucifers
(D) Late blight of potato

18. Match the nutrients given in List I with the source in List II :

List I		*List II*
1.	Vitamin A	p. Bitter gourd
2.	Single cell protein	q. Beans
3.	Vitamin C	r. Carrots
4.	Protein	s. Spirulina spp

Choose the correct option from the following :

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

19. The chemical substances which are produced by some microbes which can kill or retard the growth of other microbes are known as

(A) Statins
(B) Streptokinases
(C) Cyclosporins
(D) Antibiotics

20. Select the correct statement from the following :

(A) *Methanobacterium* is an aerobic bacteria found in the rumen of cattle.
(B) Biogas is produced by the activity of aerobic bacteria.
(C) Biogas is pure methane.
(D) Activated sludge in sediment tanks is a rich source of aerobic bacteria.

21. Which of these enzymes is required to cleave a plasmid ?

(A) Ligase
(B) Endonuclease
(C) Exonuclease
(D) Polymerase

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22. DNA polymerase of *Thermus aquaticus* is

(A) Thermolabile
(B) Thermophobic
(C) Exonuclease
(D) Thermostable

23. If a recombinant DNA bearing gene for resistance to Ampicillin is transferred into *E. coli* cells, host cells become transformed into Ampicillin resistant cells. What happens when these *E. coli* are grown on medium containing Ampicillin ?

(A) Non-transformants will grow and transformants will die.
(B) Non-transformants will die and transformants will grow.
(C) Both non-transformants and transformants will die.
(D) Both non-transformants and transformants will grow.

24. Which of the following is based upon the principle of antigen-antibody interaction ?

(A) PCR
(B) ELISA
(C) rDNA technology
(D) Gel Electrophoresis

25. Which among the following is used to treat Emphysema ?

(A) Human Hormone-α-Antitrypsin
(B) Human α-Interferon
(C) Human protein-α-Antitrypsin
(D) Human α-Lactalbumin

26. Homeostasis is a condition where the organisms

(A) maintain a constant internal environment in an everchanging external environment.
(B) do not maintain a constant internal environment.
(C) change their internal environment according to their external environment.
(D) change their internal environment when the external environment is constant.

27. Which of the following is ***not*** a parasitic adaptation ?

(A) Loss of unnecessary sense organs
(B) Absence of adhesive organs or suckers
(C) Loss of digestive system
(D) High reproductive capacity

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28. Match the type of adaptation given in List I with their examples given in List II. Select the option showing correct combination.

	List I (*Type of adaptation*)		*List II* (*Examples*)
1.	Biochemical adaptation	p.	Desert lizards
2.	Behavioural adaptation	q.	Deep sea fishes
3.	Physiological adaptation	r.	Opuntia
4.	Morphological adaptation	s.	Kangaroo rats

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

29. The annual net primary productivity of the biosphere is approximately

(A) 170 billion tons
(B) 55 billion tons
(C) 170 million tons
(D) 55 million tons

30. The natural reservoir of phosphorus is

(A) Rocks
(B) Soil solution
(C) Detritus
(D) Atmosphere

31. The sequence of communities of primary succession in water is

(A) Phytoplanktons → Scrubs → Free floating hydrophytes → Rooted hydrophytes → Grasses → Trees.
(B) Phytoplanktons → Free floating hydrophytes → Rooted hydrophytes → Trees → Scrubs.
(C) Free floating hydrophytes → Scrubs → Phytoplanktons → Rooted hydrophytes → Grasses → Trees.
(D) Phytoplanktons → Rooted hydrophytes → Free floating hydrophytes → Reed swamps → Marsh meadows → Scrubs → Trees.

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32. A strict protection of biodiversity hotspots could reduce the ongoing mass extinction by almost

(A) 20% (B) 25% (C) 30% (D) 35%

33. Identify the *incorrect* match with respect to recently extinct animals and their place of extinction according to IUCN Red List.

(A) Dodo – Mauritius
(B) Quagga – Africa
(C) Thylacine – Australia
(D) Steller's Sea Cow – North America

34. According to the hypothesis proposed by environmental biologists, a relatively constant environment in tropics promotes

(A) Niche specialization and lesser species diversity.
(B) Niche specialization and greater species diversity.
(C) Niche diversity and lesser species specialization.
(D) Niche diversity and greater species specialization.

35. In the prevention of air pollution, the role of scrubber is to remove

(A) Particulate SO_2
(B) Liquid SO_2
(C) Gaseous SO_2
(D) Liquid SO_3

36. Match List I with List II and choose the correct answer.

List I	*List II*
1. Nitrogen rich fertilizers	p. Ozone depletion
2. Carbon dioxide	q. Eutrophication
3. Carbon monoxide	r. Greenhouse effect
4. CFCs	s. Air pollutant

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

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37. Stanley Miller simulated the conditions of pre-biotic earth using spark-discharge apparatus. Which organic compounds were observed by him on analysing the end product of his experiment ?

(A) Pigments
(B) Fats
(C) Nitrogen bases
(D) Amino acids

38. Most ape-like ancestral primate was

(A) Dryopithecus
(B) Ramapithecus
(C) Australopithecus
(D) Neanderthal man

39. The principle of vaccination is based on which property of immune system ?

(A) Memory (B) Specificity (C) Diversity (D) Plasticity

40. Genome of HIV replicates in the macrophages with the help of an enzyme called

(A) DNA Polymerase
(B) RNA Polymerase
(C) Reverse Transcriptase
(D) DNA Ligase

41. Read the following statements :

Statement I : Morphine is obtained by acetylation of Heroin.

Statement II : Cannabinoids are known for their effect on cardiovascular system.

Which of the following options is correct with reference to these statements ?

(A) Both Statements I and II are correct.
(B) Statement I is correct and Statement II is incorrect.
(C) Statement I is incorrect and Statement II is correct.
(D) Both Statements I and II are incorrect.

42. Mule is the result of

(A) Out-crossing
(B) Cross-breeding
(C) Interspecific hybridization
(D) Out-breeding

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43. The role of Filiform apparatus in synergids is to

(A) Protect the egg apparatus
(B) Endosperm formation
(C) Guide the entry of pollen tube
(D) Prevention of gamete entry

44. Transfer of pollen grains from the anther to the stigma of another flower of the same plant is called

(A) Xenogamy
(B) Autogamy
(C) Cleistogamy
(D) Geitonogamy

45. Match the content of List I with List II :

List I		*List II*
1.	Polyembryony	p. Black pepper
2.	Perisperm	q. Banana
3.	False fruit	r. Lemon
4.	Parthenocarpy	s. Apple

Choose the correct option from the following :

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

46. Which of the following hormones is ***not*** secreted by human placenta ?

(A) Progestogen
(B) hCG
(C) Estrogen
(D) LH

47. In human females, the endometrium of uterus consists of

(A) Smooth muscle
(B) Glandular layer
(C) Adipose layer
(D) Cartilaginous layer

48. If two primary spermatocytes and two primary oocytes undergo meiosis simultaneously, what will be the ratio of spermatozoa and ova produced at the end of the gametogenesis ?

(A) 2 : 1 (B) 4 : 1 (C) 6 : 2 (D) 1 : 2

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49. The water potential of pure water is

(A) One
(B) More than one
(C) Zero
(D) Less than zero

50. Match the pigments given in List I with their colour in chromatogram given in List II.

List I (*Pigments*)	*List II* (*Colour in chromatogram*)
1. Chlorophyll 'b'	p. Yellow orange
2. Carotenoids	q. Orange red
3. Chlorophyll 'a'	r. Yellow
4. Xanthophylls	s. Blue green
	t. Yellow green

Choose the correct option from the following :

(A) 1–s, 2–t, 3–r, 4–q
(B) 1–t, 2–p, 3–s, 4–r
(C) 1–p, 2–q, 3–r, 4–t
(D) 1–t, 2–p, 3–r, 4–s

51. Which is the intermediate compound that links the end product of Glycolysis with TCA Cycle ?

(A) Acetyl CoA
(B) Pyruvic Acid
(C) OAA
(D) Citric Acid

52. Auxins : Apical dominance : : Gibberellins : _____.

(A) Adventitious shoot formation
(B) Accelerates abscission
(C) Closure of stomata
(D) Bolting

53. The term Uremia refers to

(A) Accumulation of Urea in blood.
(B) Presence of Glucose in the urine.
(C) Accumulation of Uric acid in blood.
(D) Accumulation of Uric acid in kidneys.

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54. Ciliated epithelial cells are present in

(A) Kidneys
(B) Intestines
(C) Blood Vessels
(D) Bronchioles

55. Which of the following statements is correct with reference to vacuoles ?

(A) It is membrane bound and contains storage proteins and lipids.
(B) It is membrane bound and contains water and excretory substances.
(C) It lacks membrane and contains air.
(D) It lacks membrane and contains water and excretory substances.

56. Exoskeleton of Arthropods is made up of unique complex polysaccharide known as

(A) Hyaluronic Acid
(B) Chitin
(C) Waxes
(D) Cellulose

57. The enzyme Recombinase is required at which stage of Meiosis I ?

(A) Pachytene
(B) Zygotene
(C) Diplotene
(D) Diakinesis

58. Which of the following exhibits haplodiplontic lifecycle ?

(A) *Fucus*
(B) *Chlamydomonas*
(C) *Gelidium*
(D) *Ectocarpus*

59. Identify the phylum which shows the following characteristics :

1. Animals are exclusively marine, radially symmetrical and diploblastic.
2. Body bears eight external rows of ciliated comb plates which help in locomotion.
3. Digestion is both extracellular and intracellular.
4. Reproduction only by sexual modes.

(A) Coelenterata
(B) Mollusca
(C) Arthropoda
(D) Ctenophora

60. When a flower has both stamens and carpels it is described as

(A) Asexual
(B) Unisexual
(C) Bisexual
(D) Dioecious

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1B0418K24 (DAY-1, FIRST SESSION)

SUBJECT CODE	TIME	QUESTION BOOKLET	
		VERSION CODE	SERIAL NUMBER
B	10.30 am to 11.50 am	**A-2**	1159826.

Total Duration	Maximum Time for Answering	Maximum Marks	Total No. of Questions	Mention your CET Number
80 Minutes	70 Minutes	60	60	2 1 5 1 0 0 0 1 8

DOs:

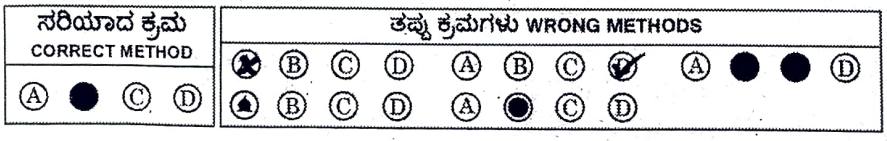
1. This question booklet is issued to you by the room invigilator **after 10.30 am**.
2. Check whether the CET Number has been entered and shaded in the respective circles on the OMR answer sheet.
3. The version code of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
4. The Version Code and Serial Number of this question booklet should also be entered on the Nominal Roll without any mistakes.
5. Compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

DONTs:

1. **THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED / MUTILATED / SPOILED.**
2. The **3rd Bell rings at 10.40 am, till then;**
   - Do not remove the seal present on the right hand side of this question booklet.
   - Do not look inside this question booklet or start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. In case of usage of SIGNS AND SYMBOLS in the questions, the regular textbook connotation should be considered unless stated otherwise.
2. This question booklet contains 60 questions, each question will have one statement and four different options/responses & out of which you have to choose one correct answer.
3. After the **3rd Bell rings at 10.40 am,** remove the paper seal of this question booklet and check that this booklet does not have any unprinted or torn or missing pages or items etc., if so, get it replaced by a complete test booklet. Read each item and start answering on the OMR answer sheet.
4. Completely **darken / shade** the relevant circle with a **blue or black ink ballpoint pen against the question number on the OMR answer sheet.**



5. Please note that even a minute unintended ink dot on the OMR answer sheet will also be recognized and recorded by the scanner. Therefore, avoid multiple markings of any kind on the OMR answer sheet.
6. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same.
7. **Last Bell will ring at 11.50 am,** stop writing on the OMR answer sheet.
8. Hand over the **OMR answer sheet** to the room invigilator as it is.
9. After separating the top sheet (Office copy), the invigilator will return the bottom sheet replica (Candidate's copy) to you.

NOTE : In case of any discrepancy in the English and Kannada Versions, the English version will be taken as final.

Entrance Exams

- Agricultural Entrance Exams
- Architecture Entrance Exam
- Arts and Humanities Entrance Exams
- Commerce Entrance Examinations
- Common Entrance Examinations
- Computer Application Entrance Exams
- Design Entrance Exams
- Education Entrance Exams
- Engineering Entrance Exams
- Hotel Management Entrance Exams
- Law Entrance Exams
- MBA Entrance Exams
- Media & Journalism Entrance Exams
- Medical Entrance Exams
- Nursing Entrance Exams
- Pharmacy Entrance Exams
- Science Entrance Exams
- Diploma & Polytechnic
- Lateral Entry