

No. of pages - 4

(M)

**MARKING SCHEME
PRACTICE PAPER (2021-22)
CLASS : XII
SUBJECT: BIOLOGY (044)**

Time Allowed : 90 min.

Maximum Marks : 40

SECTION-A

1. (b) Central Cell
2. (b) Tubectomy, Vasectomy
3. (d) A-(I), B-(III), C-(II)
4. (c) 6,4
5. (b) ii, iii
6. (d) Testis and secrete androgens
7. (d) Spermatogonia - spermatocyte - spermatid – sperms
8. (d) ‘O’ blood group
9. (a) Glutamic acid, Valine
10. (c) 30%
11. (a) 4
12. (c) 23 SrRNA
13. (a) splicing
14. (b) Parthenocarpy

15. (d) Sporopollenin, exine
16. (d) Fertilisation
17. (d) Multiple phenotypes
18. (b) I(d), II(a), III(b), IV (c)
19. (b) Chromosome 1 & Y
20. (a) (I), (II), (III) and (IV)
21. (b) A, B, D
22. (a) Polygenic inheritance
23. (c) Test cross
24. (d) 250

SECTION-B

25. (D) A is false but R is true.
26. (A) Both A and R are true and R is the correct explanation of A.
27. (A) Both A and R are true and R is the correct explanation of A.
28. (A) Both A and R are true and R is the correct explanation of A.
29. (C) A is true but R is false.
30. (a) 7 pairs
31. (b) A (Trophoblast), B (Inner cell mass) and embryo stage (Blastocyst)
32. (d) Sex Linked recessive gene disorder

33. (b) 50% sons will be colour blind
34. (a) tRNA
35. (b) ambiguous
36. (d) Free nuclear, cellular
37. (d) All three
38. (c) Peptide bond
39. (a) -196 degree celsius
40. (c) A(2), B(3), C(1), D(4)
41. (b) A(1), B(2), C(3), D(4)
42. (c) 7-celled, 8-nucleate structure
43. (b) A(DNA), B(H1 Histone), C(Histone octamer)
44. (b) 'A' is having 2'-OH group which makes it less reactive and structurally stable, whereas 'B' is having 2'-H group which makes it less reactive and structurally.
45. (c) Perisperm
46. (b) A(2), B(3), C(4), D(1)
47. (b) Single nucleotide polymorphism
48. (c) A(Promoter), B(Transcription starts), C(Terminator), D(Template strand), E(coding strand)

SECTION-C

- 49. (c) 14 day
- 50. (d) LH
- 51. (a) Corpus luteum
- 52. (b) Menstrual, Follicular, Ovulatory and Luteal
- 53. (d) 50 years
- 54. (d) Corpus luteum, progesterone
- 55. (c) Both 'a' and 'B'
- 56. (c) Affected individual is a female with Down's syndrome
- 57. (d) Lactose cannot enter the cells
- 58. (d) All three
- 59. (c) Both 'a' and 'b'
- 60. (b) Lactose is present and it binds to the repressor

Questions for blind candidates

- 5. (b) False fruits
- 31. (d) Blastula
- 43. (a) Positive charge
- 44. (c) Down syndrome
- 48. (c) RNA Polymerase