



DELHI PUBLIC SCHOOL

SAIL TOWNSHIP RANCHI

HALF YEARLY EXAMINATION (2017-18)

Class:-XI
Time- 3 Hrs.

Subject:- Biology
M.M-70

General Instructions:-

General Instruction

- The question paper consist of five sections A,B,C,D, E
- All questions are compulsory.
- There is no overall choice however an internal choice has been provided in one question of 2 marks. one question of 3 marks and all the three questions of 5 marks.
- Questions 1 to 5 are 1 mark each; questions 6 to 10 are 2 marks each, question 11 to 22 is of 3 marks each, 23 is of 4 marks and questions 24 to 26 is of 5 marks each.
- Wherever necessary, the diagram should be neat and properly labelled.

Section - A

[1x5=5]

1. Name two algae from which commercial product 'Agar' is obtained.
2. Name a
(a) Gregarious pest (Arthropoda)
(b) Living fossil (Arthropoda)
3. What are pneumatophores. Give an example.
4. What constitute the 'cambial ring'?
5. Answer the following:
(a) In cockroach : grinding of food particle is performed by-
(b) In cockroach blood vessels open into spaces called.

Section - B

[2x5=10]

6. Explain the difference between the artificial system of classification and the natural system of classification.
7. What are bulliform cells. Mention its function.

OR

What is metagenesis? Give example.

8. What do you understand by the term 'placentaion'. Distinguish between marginal and parietal placentation.
(a) What are 'casparian strips'? Where is it present?
(b) What is 'starch sheath'? Where is it present'?
10. What do you understand by 'glandular epithelium'? Mention its types giving examples.

P.T.O

Section - C

[3x12=36]

11. What is 'Binomial nomenclature'? Who proposed this system? Mention the universal rules of Binomial nomenclature.
12. (a) How is Viroids different from viruses?
(b) What are 'Lichens'? Name the algal and fungal components and gives its function.
13. Mention the important steps in the sexual cycle of fungi. What is meant by dikaryophase of fungus.
14. Differentiate between the three division of algae based on the major pigment present, stored food and the type of cell wall. Give an example each.
15. (a) Mention the main plant body of bryophyte.
(b) Mention the male and female sex organ found in Bryophyte.
(c) How is sporophyte formed in bryophytes . Mention its characteristics.
16. Differentiate between different kinds of 'coelom'. Give an example for each. Draw neat diagram.
17. (a) Mention the class to which 'Trygon' and Hippocampus belongs.
(ii) Give 4 different between the two classes.
18. Illustrate and explain the difference between hypogynous. perigynous and epigynous flower. Give an example each.
19. Describe the structure of a monocotyledonous seed. Draw a well labelled diagram.
20. (i) How is 'root hair' different from trichome?
(ii) What are subsidiary cells?

OR

Differentiate between

- (a) Spring wood and autumn wood
 - (b) Heartwood and sapwood.
21. With the help of a neat diagram differentiate between skeletal muscles , smooth muscle and cardiac muscle, based on structure , function and place of occurrence.
 22. (a) Give the scientific name of cockroach.
(b) Describe the features of exoskeleton of cockroach.
(c) Where is 'Malpighian tubules' present in cockroach. What is its function?

Section - D

[4]

23. In the biology class, one of the student named Atul asked the importance of biological classification. The teacher explained the significance in a simple manner.
- (i) Explain the term biological classification.
 - (ii) What is its need?
 - (iii) What are the objectives of biological classification?
 - (iv) What are the values shown by Atul?

Section - E

[5x3=15]

24. (i) How is archaebacteria able to survive in extreme environmental conditions?
(ii) Describe briefly the four major groups of protozoa.
- OR
- (i) With the help of a neat diagram explain haplontic and diplontic life cycle. Give example.
(ii) Where does reduction division take place in the life cycle of a liverwort, moss, fern and gymnosperm?
25. (a) Name two flightless birds.
(b) Explain how birds adapt themselves for aerial mode of life.
(c) Which features make mammals as most successful and dominant animal?
- OR
- With a well labelled diagram explain the different regions of root.
26. (i) Describe the internal structure of a dorsiventral leaf with the help of a labelled diagram.
(ii) What is the difference between the dicot and monocot stem in terms of hypodermis and vascular bundles.
- OR
- (i) Why is bone the hardest tissue in the body.
(ii) Write any four function of epithelial tissue.
(iii) What is the function of Neuroglia.
(iv) Explain the three types of cells junctions present in the tissues.



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HALF YEARLY EXAMINATION (2017-18)

Class:-XI

Time- 3 Hrs.

Subject:- Accountancy

M.M-90

1. Define Accounting. List any two functions of Accounting. [1]
2. What do you mean by Accounting Concept? [1]
3. Distinguish between opening stock and closing stock? [1]
4. What do you understand by Cash Basis of Accounting? [1]
5. When an account is said to have a credit balance? [1]
6. What are the advantages of allowing trade discount? (two points) [1]
7. "A Trail Balance is only a prima facie evidence of the arithmetical accuracy of records".
Do you agree with statement? Give reason (only one). [1]
8. Give two features of Trial Balance? [1]
9. Explain the following terms:- [3]
(a) Capital (b) Drawing (c) Creditors
10. Explain the following Accounting concept:- [3]
(a) Going Concern Concept
(b) Accounting Period Concept
11. What do you mean by Assets? Explain Fixed Assets and Current Assets. [3]
12. Give the rules of Debit and Credit and explain them with imaginary examples? [3]
13. What is Bank Reconciliation Statement? Explain the purpose of preparing such statement? [3]
14. From the following particulars, prepare sales Book of Gupta and Company who deals in Furniture. [3]

Jan 1 2017	Sold on Credit to Hari and Company 10 Tables @ Rs. 1500 each
Jan 5	Sold to m/s Shyam and Company on credit 5 Almirahs @ Rs. 1750 each 10 Stools @ Rs. 500 each . Trade discount @ 10 %
Jan 15	Sold to Sohan lal and company 20 chairs @ Rs. 800 each 5 table @ Rs. 1200 each

15. Show the Accounting Equation for the following transactions:-
- (a) Commenced business with cash Rs. 500000, goods Rs. 50000 and Furniture Rs. 150000
 - (b) Goods purchased for cash Rs. 100000 and on credit Rs. 200000.
 - (c) Goods sold for cash Rs. 150000 (profit 50 % on cost) and on credit Rs. 200000 (profit 50 % on sale)
 - (d) Bought refrigerator for personal use Rs. 2000 [4]
16. Journalise the following transactions:-
- (a) Cheque received from debtors, endorsed to creditors, dishonoured Rs. 10000
 - (b) Goods sold for Rs. 2000 and discount allowed @ 5%
 - (c) Commission earned but not received Rs. 1000
 - (d) Machine purchased on credit Rs. 100000. [4]
17. Prepare Bank Reconciliation statement on 30.09.2017 Bank Balance as per cash Book Rs. 10000. Cheque deposit into bank but no entry was passed in cash Book Rs. 5000. Insurance premium paid directly by bank Rs. 3000. Bank Charges entered twice in cash Book Rs. 100. [4]
18. (a) What is cash book? What are the types of cash books?
(b) What is contra entry? How is it recorded? Give example of contra entry. [2+2=4]
19. Write journal entry in each of the following cases in the books of Drawer :-
- (a) For goods sold on credit
 - (b) For acceptance received from drawee
 - (c) For bill discounted with bank
 - (d) For bill endorsed to creditors
 - (e) For bill sent to bank for collection
 - (f) For amount of bill received on due date
 - (g) For dishonour of bill if bill is with drawer
 - (h) For dishonour of bill if bill is with bank
 - (i) For dishonour of bill if bill is with endorsee
 - (j) For noting charges paid by drawer
 - (k) For noting charges paid by bank
 - (l) For noting charges paid by endorsee [6]
20. A sold goods to B Rs. 10000 on Credit and received an acceptance for 3 months. A endorse the bill to C and C endorse it to D. D discounted the bill with bank at Rs. 9500. On due the bill is dishonoured and bank paid Rs. 750 as noting charges. Pass journal entries in the books of B and Bank. [6]

21. Prepare Bank Reconciliation Statement from the following particulars and show balance as per cash book: [6]

- (a) Balance as per pass book on 31.03.2017 overdrawn Rs. 16000
- (b) Cheques drawn in the last week of March 2017 but not cleared till 3rd April 2017 Rs. 2500
- (c) Interest on overdraft not entered in cash book Rs. 1500
- (d) Cheques of Rs. 26000 deposited in the bank in March 2017 but not collected and credited till 3rd April 2017.
- (e) Rs. 1000 insurance premium paid by bank under a standing order has not been entered in cash book.
- (f) A draft of Rs. 10000 favouring Anil an company was issued by bank charging commission of Rs. 200. However in cash book entry was passed by Rs. 10000

22. Prepare the Trial Balance of Atul on 31.03.2017 and he has omitted to open a capital A/C.

Bank Overdraft	Rs. 85000	Debtors	Rs. 400500
Sales	Rs. 810000	Wages	Rs. 96000
Purchase Return	Rs. 22500	Capital	Rs. ?
Purchases	Rs. 445000	Creditors	Rs. 215000
Cash in hand	Rs. 8500	Equipment	Rs. 25000
Sales Return	Rs. 15750	Opening Stock	Rs. 300500

23. Prepare Return Inward and Return Outward books from the following transactions:- [6]

March 1 2017	Mathur Brothers New Delhi returned 5 pairs of shows @ Rs. 500 per pair less trade discount @ 5%
March 5	Returned to Kanpur Lather Pvt Ltd, Kanpur 100 pairs of shows @ Rs. 150 per pair less trade discount @ 15 %
March 10	Baluja Stores Delhi returned 12 pairs of canvas shows @ Rs. 175 per pair
March 15	Returned to Sethi Brothers, New Delhi 15 pairs of Sandals @ Rs. 375 per pair less trade discount @ 10%
March 20	Return to Bata Stores Pvt Ltd Kanpur 20 pairs of shows @ Rs. 750 Per pair trade discount @ 10 %
March 25	Baba shows, Ranchi returned 20 pairs of canvas shows @ 275 per pair

24. Prepare Double column cash book (cash with bank) from the following information:- [8]

Jan 1 2017	Cash in hand Rs. 12500 , cash at bank Rs. 10000 (cr.)
Jan 5	Cash deposited in bank Rs. 100000
Jan 10	A cheque of Rs. 90000 received from debtors and discount allowed to him @ 10 %
Jan 15	A cheque issued to creditors and discount received from him @ 5 % , Rs. 1000
Jan 20	Salary paid after deducting income tax @ 10 % Rs. 1200 by cheque
Jan 25	Goods purchased Rs. 10000 and cash discount received Rs. 1000
Jan 30	Goods sold for cash Rs. 20000 and discount allowed @ 10 %
Jan 31	Shares purchased Rs. 20000

25. Pass journal entries , prepare different ledgers and balancing the ledgers. [10]

July 1 2017	Started business with cash Rs. 100000
July 5	Cash deposited in bank Rs. 20000
July 10	Goods purchased for cash Rs. 30000 and on credit Rs. 1000
July 15	Goods sold for cash Rs. 20000 and on credit Rs. 10000
July 20	Cash paid to creditors Rs. 9800 and discount received Rs. 200
July 25	Cash received from debtors Rs. 9900 and discount allowed to him Rs. 100
July 30	Furniture purchased Rs. 50000 and payment made by cheque and Rs. 2000 paid for installation charges in cash