

EVERWIN MATRIC. HR. SEC. SCHOOL

5.11.2019 TT Time: 45 Mins
 STD: XII (A,C) Bio-Botany Marks: 15

- I. Answer any 2 of the following: 2x2=4
- i) Siddha is principally based on the _____ philosophy.
 - ii) Spot the error and correct the mistake:
 The products prepared from Lawsonia inermis have multiple properties such as emollient, antibacterial antioxidant, antifungal and antiseptic.
2. List out the uses of rubber.
3. Write a note on manufacturing of wood pulp.
- II. Answer any 2 of the following: 2x3=6
4. List out the cotton species which is commercially used. Mention the uses.
 5. Enumerate the uses of turmeric.
 6. Write a note on history of spices.
- III. Write any 1 in detail: 1x5=5
7. What is TSM? How does it classified and what does it focuses on?
 8. Give an account on the role of Jasminum in perfuming.

Bio-Zoology Marks: 15

- I. Answer any 2 of the following: 2x1=2
1. What is the new name of IUCN?
 2. Which organisation is responsible for Red list?
 3. How many Hot spots are there in India and give one region?
- II. Answer any one of the following: 1x2=2
4. What is meant by insitu conservation?
 5. What is meant by sacred grove?
- III. Answer any 2 of the following: 2x3=6
6. What are the Hotspots of India and what is meant by Hot spot?
 7. What is meant by co-extinctions? Give example.
 8. What is meant by Mass and Natural extinctions?
- IV. Answer any 1 in detail: 1x5=5
9. Write a note on Red data book.
 10. Write a note on causes of Biodiversity loss.

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5.11.2019 TT Time: 45 Mins
 STD: XII (B,D,E) Physics Marks: 30

- I. Answer any 5 of the following: 5x2=10
1. Write down the conditions for obtaining clear and broad interference bands.
 2. What are the characteristics of polarised and unpolarised light?
 3. Mention the uses of Nicol prism.
 4. Define polarization.
 5. Define Inteference.
- II. Answer any 5 of the following: 5x3=15
6. Explain Brewster's law with diagram.
 7. Difference between interference and diffraction.
 8. The optical telescope in the Vainu Bappu observatory at Kavalur has an objective lens of diameter 2.3m. What is its angular resolution if the wavelength of light used in 589nm?
 9. Write a short note on resolving power of microscope.
 10. Explain the application of polarization by reflection. (Pile of plates).
 11. Discuss the special cases on first minimum in fraunhofer diffraction.
- III. Answer any one of the following: 1x5=5
12. Discuss about Nicol prism.
 13. Prove laws of refraction using Huygen's principle.

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TT

Time: 45 Mins

STD: XII (F,G,H)

Accountancy

Marks: 30

I. Answer all the questions:

6x5=30

1. From the following particulars, prepare comparative income statement of Mary Co Ltd.

Particulars	2015-16	2016-17
Revenue from operations	4,00,000	2,00,000
Operating expenses	2,00,000	1,80,000
Income tax (% of the profit before tax)	20%	50%

2. From the following particulars, prepare comparative statement of financial position of Muthu Ltd.,

Particulars	31 st Mar 2017	31 st Mar 2018
I. Equity and Liabilities		
Share holders fund	4,00,000	4,40,000
Non current liabilities	1,50,000	1,65,000
Current liabilities	75,000	82,500
Total	<u>6,25,000</u>	<u>6,87,500</u>
II. Assets		
Non current assets	5,00,000	6,00,000
Current Assets	1,25,000	87,500
Total	<u>6,25,000</u>	<u>6,87,500</u>

3. Prepare common size statement of financial position for the following particulars of Rani Ltd.

Particulars	2015-16	2016-17
Revenue from operations	4,00,000	5,00,000
Other income	80,000	50,000
Expenses	2,40,000	2,50,000
Income tax	30%	30%

4. Prepare common-size balance sheet of Maria Ltd as 31.3.2018.

Particulars	31.3.2018
I. Equity and Liabilities	
Share holders' fund	4,00,000
Non-current Liabilities	3,20,000
Current Liabilities	80,000
Total	<u>8,00,000</u>
II. Assets	
Non current Assets	6,00,000
Current Assets	2,00,000
Total	<u>8,00,000</u>

5. Calculate Trend percentages for the following particular of Kurinji Ltd.

Particulars	Rs. in thousands		
	2015-16	2016-17	2017-18
Revenue from operations	120	132	156
Other income	50	38	65
Expenses	100	135	123

6. From the following particulars, calculate the Trend percentages of Anu Ltd.

Particulars	Rs. in thousands		
	Year 1	Year 2	Year 3
I. Equity and Liabilities			
Shareholders' Fund	500	550	600
Non-current liabilities	200	250	240
Current liabilities	100	80	120
Total	<u>800</u>	<u>880</u>	<u>960</u>
II. Assets			
Non-current Assets	600	720	780
Current Assets	200	160	180
Total	<u>800</u>	<u>880</u>	<u>960</u>

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5.11.2019 TT Time: 45 Mins
 STD: XII (I,J) Business Mathematics Marks: 30

I. Answer the following questions: 5x3=15

1. Fit a trend line by method of freehand method for the given data

Year	2000	2001	2002	2003	2004	2005	2006	2007
Sales	30	46	25	59	40	60	38	65

2. Fit a trend line by the method of semi-average for the given data

Year	2000	2001	2002	2003	2004	2005	2006
Production	105	115	120	100	110	125	135

3. Compute average seasonal movement for the following:

Year	Quarterly Production		
	I	II	III
2002	3.5	3.8	3.7
2003	3.6	4.2	3.9

4. Construct the Laspayre's -Price index.

Commodities	Base Year		Current Year	
	15	5	16	8
Rice	15	5	16	8
Wheat	10	6	18	9

5. Define Seasonal index and cost of living.

II. Answer the following: 3x5=15

6. Calculate the cost of living index by aggregate expenditure method.

Commodity	Weights 2010	Price (Rs.)	
		2010	2015
P	80	22	25
Q	30	30	45
R	25	42	50
S	40	25	35

7. Using the following Fisher's Ideal formula, also show that it satisfies Time Reversal Test.

Commodity food	2016		2017	
	Price	Quantity	Price	Quantity
Food	40	12	65	14
Fuel	72	14	78	20
Clothing	36	10	36	15

Wheat	20	06	42	04
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8. Construct the cost of living Index by family budget method.

Commodity	Price (Rs.)		Weights
	2012	2015	
Rice	250	280	10
Wheat	70	85	5
Corn	150	170	6
Oil	25	35	4
Dhal	85	90	3

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5.11.2019 TT Time: 45 Mins
 STD: XII (A,C) Computer Science Marks: 30

I. Answer any 5 of the following: 5x2=10

1. Differentiate compiler and interpreter.
2. Give an example for programming language.
3. What are the two values return by getopt()?
4. What is the use of next() function?
5. Write the steps involved in file operation.
6. Write the syntax for csv.writer().

II. Answer any 5 of the following: 5x3=15

7. Identify the module, operator, definition name for the following:
welcome.display()
 8. Write short notes on Python program to import C++
 9. Write the steps for executing C++ program.
 10. What is the difference between the write mode and append mode?
 11. Write short notes on Dict Reader().
 12. How will you get a data at run time and write into a csv file?
- III. Answer any 1 in detail: 1x5=5
13. Explain how importing modules in Python was done.
 14. How will you modify an existing file?

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5.11.2019 TT Time: 45 Mins

STD: XII (I,J) Computer Application Marks: 30

I. Answer any 4 of the following: 4x2=8

1. Differentiate tangible goods and electronic goods with example of your own.
2. What is dotcom bubble and dotcom burst?
3. What is meant by network simulator?
4. Write short note on open NMS.
5. Explain NRCFOSS.

II. Answer any 4 of the following: 4x3=12

6. What are the uses of Open Source Network Software?
7. Explain types of Organisations related to Open Source.
8. What are the main functional areas of Open NMS?
9. Write a short note on the third wave of E-commerce.
10. Describe how E-commerce is related to socio-technological changes.

III. Answer any 2 in detail: 2x5=10

11. What are the advantages and disadvantages of E-commerce to a consumer?
12. Explain any five E-commerce revenue models.
13. Explain various Open Source License.