

I. Choose the correct answer:

5x1=5

1. If the line  $\frac{x-2}{3} = \frac{y-1}{-3} = \frac{z+2}{2}$  lies in the plane  $x+3y-az+\beta=0$ , then

$(\alpha, \beta)$  is \_\_\_\_\_.

- a) (-5, 5)    b) (-6, 7)    c) (5, -5)    d) 6, -7)

2. Distance from the origin to the plane  $3x-6y+2z+7=0$  is \_\_\_\_\_.

- a) 0    b) 1    c) 2    d) 3

3. If the direction cosines of a line are  $\frac{1}{c}, \frac{1}{c}, \frac{1}{c}$  then \_\_\_\_\_.

- a)  $c=\pm 3$     b)  $c=\pm\sqrt{3}$     c)  $c>0$     d)  $0<c<1$

4. If the length of the perpendicular from the origin to the plane

$2x+3y+\lambda z=1$   $\lambda>0$  is  $\frac{1}{5}$ , then the value of  $\lambda$  is

- a)  $2\sqrt{3}$     b)  $3\sqrt{2}$     c) 0    d) 1

5. The distance between the planes  $x+2y+3z+7=0$  and

$2x+4y+6z+7=0$  is \_\_\_\_\_.

- a)  $\frac{\sqrt{7}}{2\sqrt{2}}$     b)  $\frac{7}{2}$     c)  $\frac{\sqrt{7}}{2}$     d)  $\frac{7}{2\sqrt{2}}$

II. Answer any 5 of the following:

5x3=15

6. Find the acute angle between the lines

$\vec{r}=(\vec{i} + 2\vec{j} + 4\vec{k})+t(2\vec{i} + 2\vec{j} + \vec{k})$  and the straight line passing through the points (5,1,4) and(9,2,12).

7. Find the acute angle between the straight lines  $\frac{x-4}{2} = \frac{y}{1} = \frac{z+1}{-2}$

and  $\frac{x-1}{4} = \frac{y+1}{-4} = \frac{z-2}{2}$  and state whether they are parallel or perpendicular.

8. Find the parametric form of vector equation and cartesian equations of the straight line passing through the point

(-2, 3, 4) and parallel to the straight line  $\frac{x-1}{4} = \frac{y+3}{5} = \frac{8-z}{6}$

9. Find the non-parametric form of vector equation and cartesian equations of the straight line passing through the point with position vector  $4\vec{i} + 3\vec{j} - 7\vec{k}$  and parallel to the vector  $2\vec{i} - 6\vec{j} + 7\vec{k}$ .

10. Find the acute angle between the lines  $2x=3y=-z$  and  $6x=-y=-4z$ .

11. The vertices of  $\Delta ABC$  are A(7,2,1), B(6,0,3) and C(4,2,4). Find  $\angle ABC$ .

III. Answer any 2 of the following:

2x5=10

12. Find the points where the straight line passes through (6,7,4) and (8,4,9) cuts the xz and yz planes.

13. Find the direction cosines of the straight line passing through the points (5,6,7) and (7,9,13). Also, find the parametric form of vector equation and cartesian equations of the straight line passing through two given points.

14. a) If the straight line joining the points (2,1,4) and (a-1,4,-1) is parallel to the line joining the points (0,2,b-1) and (5,3,-2). Find the values of a and b.

b) If the straight lines  $\frac{x-5}{5m+2} = \frac{2-y}{5} = \frac{1-z}{-1}$  and  $x = \frac{2y+1}{4m} = \frac{1-z}{-3}$  are perpendicular to each other, find m.

I. Read the poetic lines and answer the questions below:

Life is hard; be steal; be a rock”

1. How should one face life?

2. Identify the figures of speech in the above line.

“Life is a soft loam; be gentle; go easy”

And this too might serve him.

3. Why does the poet suggest to take life easy?

4. Identify the figure of speech in the above line.

“Tell him solitude is creative if he is strong

and the final decisions are made in silent rooms,

5. Can being in solitude help a strong human being? How?

6. Identify the figure of speech.

“Tell him time as a stuff can be wasted

Tell him to be a fool every so often

7. Why does the poet suggest that time can be wasted?

8. Identify the figure of speech in the above line.

“Tell him to be a fool ever so often

and to have no shame over having been a fool

Yet learning something out of every folly

hoping to repeat none of the cheap follies

9. Is it a shame to be a fool at times?

10. What does one learn from every folly?

.....free imaginations

Bring changes into a world resenting change.

11. How does the free imagination help the world?

12. Identify the figure of speech.

And this might stand him for the storm

13. Pick out the alliterated words from the poem and write it.

“Tell him to be alone often and get at himself

and above all tell himself no lies about himself

whatever the white lies and protective fronts

he may use against other people.

14. What is ‘white lies’ mentioned here?

15. Why should his son avoid white lies?

16. What are the alliterated words in the third line?

“Let him have lazy days seeking his deeper motives

Let him seek deep for where he is born natural

17. Why does the son may need lazy day?

18. What is the figure of speech used here?

“He will be lonely enough

to have time for the work

he knows as his own.

19. Why should the son be lonely?

20. Pick out the alliterated words.

II. Respond to the following advertisement: 1x5=5

WANTED – CLINICAL INSTRUCTOR / TUTOR

B.Sc Nursing with minimum 3 years experience.

Apply within a week

Indira College of Nursing

No.84, Poonamallee High Road,

Chennai-600 054.

EVERWIN MATRIC. HR. SEC. SCHOOL

25.10.19 TT Accountancy Time: 45 Mins  
STD: XII (F,G) Marks: 30

I. Answer the following: 6x5=30

1. Thai Ltd., invested ₹1,00,000 equity shares of ₹10 each, payable ₹5 on application, ₹1 on allotment, ₹2 on first account, ₹1 on final call, All the shares are subscribed and amount was duly received. Pass Journal entries.
2. Joy company invested 10,000 equity shares at ₹10 per share ₹5 on application, ₹3 on allotment and ₹2 on first and final account. The public subscribed for 9000 shares. The directors allotted all the 9000 shares and duly received the money. Pass the necessary journal entries.
3. Muthu was holding 20 equity shares of ₹10 each, on which he paid ₹2 on application but could not pay ₹3 on allotment and ₹1 on first call. Directors forfeited the shares after the first call. Give journal entry for recording the forfeiture of shares.
4. Anu company forfeited 200 equity shares of ₹10 each issued at par held by Thiyagu for nonpayment of the final call of ₹3 per share. The shares were reissued to Laxman at ₹6 per share. Show the journal entries for forfeiture and reissue.
5. Bharath Ltd., issued 1,00,000 equity share of ₹10 each to the public at par. The details of the amount payable on the shares are as follows:

On application ₹ 5 per share  
On allotment ₹ 3 per share  
On First & Final call ₹ 2 per share

application money was received for 1,20,000 share. Excess application money was refunded immediately. Pass the journal entries recorded above.

6. Sudha Ltd., offered 1,00,000 shares of ₹10 each to the public payable ₹3 on application, ₹4 on share allotment and the balance when required. Applications for 1,40,000 shares were received on which the directors allotted as:

Applicants for 60,000 shares – Full  
Applicants for 75,000 shares – 40,000 shows (Excess money will be utilised for allotment)  
Applicants for 5000 shares – Nil

All the money due was received. Pass journal entries upto the receipt of allotment.

EVERWIN MATRIC. HR. SEC. SCHOOL

25.10.19 TT தமிழ் Time: 45 Mins  
STD: XII (H-J) Marks: 25

I. அடிபிறழாமல் எழுதுக: 2x2=4

1. 'சென்ற' - எனத் தொடங்கும் குறட்பா.
2. 'நோய்' - என முடியும் குறட்பா.

II. இலக்கணக் குறிப்பு தருக: 3x1=3

3. ஓரீஇ
4. படுப்பதூஉம்
5. சொல்லுதல்

III. புணர்ச்சி விதி தருக: 2x2=4

6. பெருந்தேர்
7. கடலலை

IV. உரிய விடை தருக: 2x1=2

8. திண்ணியர் என்பதன் பொருள், \_\_\_\_\_.

- அ) அறிவுடையவர் ஆ) மன உறுதியுடையவர்  
இ) தீக்களய்வார் ஈ) அறிவினார்

9. ஆராய்ந்து சொல்கிறவர், \_\_\_\_\_.

- அ) அரசர் ஆ) சொல்லியபடி செய்பவர் இ) தூதுவர்  
ஈ) உறவினர்

V. எவையேனும் ஆறனுக்குக் குறுவிடை தருக: 6x2=12

10. நஞ்சுண்பவர் என வள்ளுவர் யாரை இடித்துரைக்கிறார்?

11. பகைவராலும் அழிக்க முடியாத அரசன் எது?

12. வறுமையும் சிறுமையும் தருவது எது?

13. மன உறுதியின் தேவை பற்றித் திருக்குறள் யாது கூறுகிறது?

14. 'கீழ்நீர் குளித்தானைத் தீத்தூரீஇ யற்று'- பொருள் தருக.

15. அரசரோடு நட்புப் பாராட்டினாலும் செய்யத்தகாதன யாவை?

16. திருக்குறள் குறிப்பு வரைக.

**I TRADUISEZ EN ANGLAIS:**

**1 X 5 = 5**

Quatre camarades de classes ont en train de bavarder.

**Karna** :Tiens, je suis sorti avec ma famille le weekend. C'était super, notre pique-nique.

**Lavanya** : A quel endroit ?

**Karna** : Nous avons pique-niqué à un endroit qui s'appelle 'Bois sacré.'

**Niru**: Ce lieu dont tu parles est-il loin ?

**Karna** : Non, pas du tout. C'est à 25 kilomètresd'ici. C'est un lieu où on peut passer des heures.

**Naveen** : Ah bon ! C'est incroyable.

**Karna** : Il y a beaucoup d'orangers et un grand terrain de jeu. Nous avons cueilli les oranges et nous les avons mangées. Nous avons bien joué.

**Lavanya** : On pourrait demander à notrè professeur de nous y amener ?

**Karna** :Oui. Pourquoi pas ?

**Niru** :C'est toi qui vas lui parler,

**Karna.** Vas-y ! Parle-lui-en !

**II METTEZ LE DIALOGUE EN ORDRE: 1 x 5 = 5**

- Formidable. Vous étiez combien ?Vous étiez loges ensemble ?
- Qu'est-ce que vous avez fait ?
- Quand es-tu rentrée du Québec ?
- 30. Il y avait des étudiants qui sont venus de 5 pays.Oui, nous étions dans un quartier que j'ai beaucoup aimé.
- Hier. J'étais à Montréal où j'ai passé une semaine dans un centre culturel.

**III GRAMMAIRE:**

**4 x 5 = 20**

**1. Remplacez les noms par les pronoms personnels y ou en :**

- a) Parlez du concert de musique !
- b) Prenez des barres de chocolat !
- c) Entrez dans la salle, s'il vous plaît !
- d) Restez au bureau !
- e) Mangez des pommes !

**2. Complétez avec les pronoms relatifs qui, que, où et dont :**

- a) Je cherche la boîte ..... tu as prêtée.
- b) Nous montrerons les photos ..... nous avons prises.
- c) Marie-Laure est notre tutrice ..... vient de Nantes.
- d) C'est le garage ..... elle gare la voiture.
- e) Nous allons visiter le musée de Rodin .....la sculpture 'Le Penseur' est célèbre.

**3. Associez les proverbes :**

- | A                         | B               |
|---------------------------|-----------------|
| a. Qui ne dit mot,        | 1. n'arien      |
| b. Qui ne risque rien,    | 2. peut         |
| c. Qui veut               | 3. verra        |
| d. Qui donne aux pauvres, | 4. consent      |
| e. Qui vivra              | 5. prête à Dieu |

**4. Construisez des phrases avec les éléments donnés en utilisant les pronoms relatifs:**

Ex: Les garçons/perdre leur argent → Ce sont les garçons qui ont perdu leur argent.

- a) La fille/dépenser 5000 roupies
- b) Les femmes/visiter Taj Mahal trois fois
- c) Manu Singh/envoyer cent messages
- d) La technique/le peintre/inventer
- e) Les statues/l'artiste/sculpter

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1. निम्नलिखित प्रश्नों के उत्तर एक वाक्य में दीजिये —  $5 \times 1 = 5$

i) भाई-बहन कहानी के कहानीकार का नाम क्या है?

(ii) लुचूस कितने वर्षों में मर गया?

(iii) कमल ने माँ के किसकी छिपावट की?

(iv) सावित्री के बेटे और बेटे का नाम बताइए?

(v) कमल कैसे घर लौटा?

2. निम्नलिखित प्रश्नों के उत्तर संक्षेप में लिखिये —  $10 \times 2 = 20$

(i) सावित्री भाई के जन्म दिवस पर क्या उपहार दे-ग्याहरी थी?

(ii) माँ ने निर्मला को क्या समझाया?

(iii) निर्मला क्यों बचपन ही रही थी?

(iv) निर्मला सीता के घर की ओर क्यों भागी?

(v) निर्मला कमल के साथ क्या-क्या करती थी?

(vi) सावित्री के मन में कौन-सा संदेह उठने लगा?

(vii) सीता हुई निर्मला को देखकर सावित्री क्या करने लगी?

(viii) किस दृश्य को देखकर सावित्री के मन में आनन्द की धारा उमड़ पड़ी?

(ix) कमल ने अपनी माँ से क्या देखने की अनुमति माँगी?

(x) सावित्री ने कमल से क्या कहा?