Half Yearly Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 80**

SECTION (A) READING

Q.1   **Read the following passage and answers the following questions below:**

Everybody knows the ocean is salty. But why should an inland lake like The Great Salt Lake be salty? To understand this we have to know how lakes are formed and what happens to them.

Lakes are formed from the flow of water into low areas. Lakes water comes largely from rainfall and melting snow. The water enters a lakes basin through brooks, stream, rivers, underground springs and groundwater. Dissolved minerals matter is in the fresh water entering the lake. This dissolved mineral matter is obtained from the ground and from rocks in the area.

In places where the climate is dry, lakes lose water rapidly by evaporation. When the amount of water that flows into lake is matched up by evaporation, salty minerals are left behind in the lakes. Such lakes becomes salty, and the salinity increases with time. The Great Salty Lake is such a lake. The minerals matter there is been accumulating over the ages and now it contains over 20% minerals matters, most of which is common salt. Because of the high salt content only shrimps live in the lake. The Great Salt Lake is more than 1,220metres above sea level and is located in North-Western Utah in the USA.

The Dead Sea which lies in between Israel and Jordan is really another example of salt lake. It is 390mts below the sea level. The lake is fed by the Jordan River, but it has no outlet .this fact, plus little rainfall and high evaporation, cause the minerals matter to accumulate in the lake. It contains more than 24% minerals matter, one third of which is common salt.

1.1   **Answer the questions**   **8**

(1) How are lakes formed?

(2) Why are inland lakes salty?

(3) From where do the lakes get water?

(4) Through which sources does water enter the lake basin?

(5) Where is the great lake located?

(6) From where is the dissolved mineral matter obtained?

(7) Where is the Dead Sea situated?

(8) Why do only shrimps live in the Great Salt Lake?

Q.2. **Read the following passage carefully and answer the questions given below:**

1. A young man was getting ready to gratitude from college. For many months he admired a beautiful sports car in a dealer's showroom, and knowing his father could well afford it, he told that was all he wanted. As graduation Day approached, the young man awaited signs that his father had purchased the car. Finally on the morning of his graduation, his father called him into his private study.

2. His father told him how proud he was to have such a fine son, and told him how much he loved him. He handed his son a beautiful wrapped gift box. Curious ,but somewhat disappointed the young man opened the box and found lovely, leather –bound Bible ,with the young man's name embossed in gold. Angry, he raised his voice to his father and said "with all your money, you give me Bible?"And storm out of the house, living the Bible.

3. Many years passed the young man were very successful in business. He had a beautiful home and family, but realized his father was very old, and though perhaps he should go to him. He had not seen him since his graduation day. Before he could make arrangements, he received a telegram telling his father passed away, and willed all of his possessions to his son. He needed to come home immediately and take care of all things. When he arrived at his father's house, sudden sadness and reverence filled his heart. He began to search his father's important papers and saw the still new Bible, just as he had left it years ago. With tears he opened the Bible and began to turn the pages. And as he did, a car key dropped from the back of the Bible. It had a tag with the dealer's name, the same dealer who had the sports car he had desired. On the tag was the date of his graduation, and words PAID IN FULL.

4. How many times do we miss spirits blessing and answers to our prayers because they do not arrive exactly as we have expected?

2.1 **Answer the following questions:** **8**
(1) What did the young man wanted from his father?
(2) Why did his father call the young man in his private study?
(3) What was the reaction of the young man to see the present?
(4) After many years, what did the young man realize?
(5) What happen when he reached his father's house?
(6) What was written on the tag?
(7) What is the theme of the short story?
(8) Comment on the Bible.

2.2 **Pick out words from the passage which are similar in meaning to the following:** **2**

(a) belongings/assets (para 3)   (b) marked/printed (para 2)

2.3 **Pick out words from the passage which are opposite in meaning to the following:** **2**

(a) disrespect (para 3)   (b) curse (para 4)

SECTION (B) WRITING & GRAMMAR

Q.3. Write a letter to the editor of a newspaper complaining about the frequent power cuts in your locality.

OR

Write a letter to the editor of a reputable national newspaper about the apathy shown by the local civic body towards cleanliness. **8**

Q.4. **Write a short story in 200-250 words using the following clues:** **10**

Today was an ordinary morning of school for Geoff .He woke up late ,and took his shower ,and got on his bus to go to school…………….

Q.5 **Fill in the blanks with the correct form of the verb:** **4**

Mr. Sherlock Homes, who __(a)__usually very late __(b)__the mornings, save __(c)__those not frequent occasions when he _(d)__ up all night was seated at the breakfast table.

Q.6 **In the following passage, there is one error in each line:** **8×½ = 4**

One morning, the Nawab call	a)___	___
his minister and said him	b)___	___
that I wanted the length and	c)___	___
breadth from the earth	d)___	___
measured. He also feel the	e)___	___
need to have the stars on the	f)___	___
sky counted. The minister says	g)___	___
that the task he have been	h)___	___
set was impossible.		

Q.7 **Rearrange the following words into meaningful sentences:** **4**

(a) are/ a reflection/ paintings/ the/ created/ of/ they/ times /in which/ are

(b) man /so/ that/ could/ climb/ hill/ the/ was/ tired/ he/ not/ the

(c) should/ we /be/ to/ grateful/ for/ it /God

(d) God/ some/ remember/ people/ distress/ in/ only

SECTION(C) LITERATURE

Q.8 **Read the extract given below and the question that follow:**

"I don't call that delicate, stepping into dead man's shoes

a) Who is the speaker? 1

b) When does the speaker say these words? 1

c) What does the speaker mean by 'stepping into a dead man's shoes"? 2

OR

Higher and higher every day,

Till over the mast noon—

The wedding guest here beat his breast,

For he heard the loud bassoon.

a) What came higher and higher every day? 1

b) Why did the wedding guest beat his breast? 1

c) What is the meaning of "Bassoon"? 1

d) Name the poem and poet of the poem? 1

Q.9 **Answer the following questions in about 30-40 words:** 8

(1) How did the villagers react to the tiger's death?

(2) What message does "the two gentlemen of Verona" give?

(3) Why does the narrator hesitate in playing the Ouija board?

(4) How does the time destroy the monuments and memorials?

Q.10 **Answer the following in about 100-120 words:** 8

The postmaster realizes his mistakes only after Ali's death. Imagine yourself to be the postmaster, make a diary entry expressing your feeling of guilt and your determination to be humane in future.

OR

The frog calls the nightingale 'brainless bird '. Is she really brainless? Give reason in support of your answer.

Q.11 " My teacher is so near to me that I scarcely think of myself apart from her". Do you think Helen is exaggerating or speaking truth? Give reasons in favour of your reason**.** **10**

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1- f'kjh"k ds Qwy dSls gSA　　　　　　　　　　　　　　　　　　　　　　1
2- f'kjh"k Qwyka ds ek/;e ls fdl ij 0;X; fd;k x;k gA　　　　　　1
3- ys[kd us dfo;ka dh D;k Hkwy crkbZ gA　　　　　　　　　　　　　2
4- ys[kd ds vuqdkj fpj&ifjfpr ipekf.kd IR; D;k gA　　　　　　　2
5- vfrikekf.kd 'kCn ea milxZ&iR;;; crkb,　　　　　　　　　　　2

i.z2　fuEufyf[kr i|kak dks i<+dj iz'uka ds mRrj fyf[k, &　　　　　　　　　　7

　　　　vkt dh nqfu;k fofp= uohu] ipfr ij Iof/kZ gS fot;h iq"k vkIhuA
　　　　gS c/kka uj ds djkka ea okfj] fon;qqr] Hkki gwIDe ij p<+rk&mrjrk gS ipou dk rkiA
　　　　gS ugha ckdh dgha 0;o/kku] ykg?kk Idrk uj ifjr} fxjh] fllU/kq ,d lekuA
　　　　'kh'k ij vknk dj vo/kk;Z ipfr ds Lc rRo djrs gSeut ds dk;A
　　　　Ekkurs gSgwIDe ekuo dk egko: .ksk] vkSj djrk 'kCn xqk vEcj ogu IaskkA

u0; uj dh ef"V ea fodjkky] gS fIeVrs tk jgs fnDdkyA
;g ixfr fufLleheA uj dk ;g viwVZ fodklA pjk.k ru HkwwkksyA eWBh ea fuf[ky vkdk'kA
fdrq gS c<+Fk x;k eflr"d gh fu%'ksk] NWdj ihNs x;k gS jg gn; dk n'kA
uj ekrk fuR; uwru cf) dk R;ksgkj] ik.k ea djrs n%[kh gks nqork fpRrdkjA

1- vkt lakj ds uohu vkSj fofp= fn[kkbZ nuus dk dkj.k g&
　　¼d½ euq; us ixfr dh gS　　　　¼[k½ igys dh rqyuk ea lakj cMk gks x;k gS
　　¼x½ ipfr ij euq; us fot; iklr dj yh gA ¼?k½ foKku ds {k= ea fodkl fd;k gS

2- ^NWdj ihNs jg x;k gSjg gn; dk n'k* ifDr dk HkkokokFkZ gS %
　　¼d½gn; dk n'k ihNs jg x;k　　　　¼[k½ cqf) ds {k= ea fufLlkme ixfr
　　¼x½euq; dh ixfr fuLlkj gS　　　　¼?k½ Ckkf)d nkSM+ea eu dk lakkj ihNs NW x;k gA

3- ^Ckqf) dk R;ksgkj* dk D;k rkRi;Z gS&
　　¼d½gj R;ksgkj cqf) ipZd ekurk gS　　¼[k½R;ksgkj ds fnu uwru cqf) gkrh gA
　　¼x½euq; cqf) cy ls ipLUu gkrk gS　　¼?k½buea ls dkbZ ughaA

4- ekuo dk gqPe dk&u ekurk gSA

¼d½ekuo ¼[k½ izdfr ¼x½ Hkxoku ¼?k½ fnDdky

5- fllzkq dk i;kz;okph gS &

¼d½lkxj ¼[k½lj ¼x½ tyn ¼?k½ uhjt

6- in;kaVk ea izk;Dr jl crkb, &

¼d½Hk;kud ¼[k½jkSnz ¼x½ ohj ¼?k½vnHkqr

7- ^uj eukrk fuR; uaru* ifDr ea izk;Dr vyadkj crkb,&

¼d½vuqizkl ¼[k½ :id ¼x½ miek ¼?k½;ed

iz3 ¼d½jpuk dh nf"V ls okD;ka ds izdkj crkb,A   2

          ¼1-½ vki IR; ds i{kikrh gS ;k vIR; ds leFkdA

          ¼2-½ vki ykbu ea yxdj fVfdV [kjhfn,A

¼[k½ vadkjk gqvk vkSj mUgkaus ?kkr yxkbA okD; dks feJokD; ifjofrZr dhft,A   1

iz4 fun\kkudkdj okP; ifjofrZr dhft, &   4

     ¼v½ mUgaa IR; ckayus dh ij.kk nh xbZ FkhA ¼drZokP;½

     ¼c½ vki dj ldrs gSA ¼deZokP;½

     ¼l½ Ikjs Lchy cm dj fn, tk,A ¼okP; ifoku dj fyf[k,½

     ¼n½ og ?kaeus ugha tk IdrhA ¼HkkokokP;½

iz5 jp[kakDr inka dk ifjp; nhft,&   4

     ¼v½ gk;] ;g D;k gks x;kA   ¼c½ vki dh nqdku dgkaVh gSA

     ¼l½ vki ogkVa clB,A   ¼n½ ckgj dkbZ [kMk gSA

iz6 fuEufyf[kr ifDr;ka ea izk;Dr jl ,oa LFkk;h Hkko fyf[k,&   3

     ¼v½ fdydr dkUg ?kkV:ou vkorA

          efue; dud umn dS vkaaku fcac idfjcS /kkorA

     ¼c½ Ikeus fVdrs ugha cujkt ior Mksyrs gSa

          dkVrk gS dqMyh ekjs Ie; dk 0;kyA

     ¼l½ Jaxkj jl dk ,d mnkgj.k fyf[k,A

iz7 fuEu x|kka dks i<dj izuuka ds mÙkj fyf[k,&   5

     dkfrZd vk;k ugha fd ckyxksfcu Hkxr dh iHkkfr;ka 'kq: gqbZA tks Qkxqu rd pyk djrhA bu fnuka og
     Icjs gh mBrA u tkus fdl oDr txdj og unh Luku dks tkrs & xkg Is nks ehy nyjA ogqa Is ugk
     /kkadj ykSVrs vkSj xkg ds ckgj gh ikso[kjs ds Åaps fHkMMs ij viuh [kqtMaih ;dj tk cSBrs vkSj vius xkus
     Vjrus yxrA esa 'kq: Is gh nlj rd Ikus okyk gqA fdrq,d fnu ek?k dh mI nkr fdV fdVrkus okyh Hkkj
     ea Hkh mudk Iaxhr eq>s iks[kjs ij ys x;k FkkA

     1- iHkkfr;ka dk D;k vFkZ gSA ckyxksfcu Hkxr iHkkfr;a dgka xkrs FkaA

     2- iHkkrh xkus Is igys ckyxksfcu Hkxr D;k djrs FkaA

     3- ys[kd dSh Hkkj ea iks[kjs rd x,A

iz8   fuEu fyf[kr iznuka ds mÙkj fyf[k,&   8

   1- iku okys us fdl dk etkd fdl izdkj mMk;k\

   2- uokc lkgc ds Fkddj ySV tkus dk dkj.k yS[kd us D;k crk;k\

   3- ^Qknj cYds lkdYi ls lU;klh Fk\ bl dFku ea fufgr Hkko Li"V dhft,A

   4- Yf[kdk eUuw HkaMkjh dh Lora=rk vkanksyu ea Hkkfedk dks Li"V dhft,A

iz9   fuEu i|kak dks i<dj iznuka ds mÙkj fyf[k,,   5
   fdrq dfg ,slk u gks fd rue gh [kkyh djus okys
   vius dks le>kdj e>kk jl ys viuh Hkjus okysA
   ;g foMacuk! vjh ljyrs rjh galh mMkÅ¡ eSA
   Hkkys viuh ;k iappuk vkSjka dh fn[kykÅ¡ eSA
   mTToy xkFkk dSls xkÅ¡ e/kqj pkqnuh jkrka dhA
   vjs f[kyf[kyk dj galrs gkus okyh eu ckrka dhA
   1- ^e>kk jl ys viuh Hkjus okys* ifDr dk vk'; Li"V dhft,A   2
   2- dfo us mTToy xkFkk fdll dgk vkSj og dSlh gS\   2
   3- ^vjh ljyrs* fdllds fy, iz;qDr gqvk gS\   1

iz10   fuEu fyf[kr iznuka ds mÙkj fyf[k,&   8
   1- xkfi;ka us Jhd".k dks ledkyhu jktuhfrK ds leku D;ka dgk\

   2- dfonso dh Hkk"kkxr fo'k"krk,¡ crkb;A

   3- ^vV ugh jgh gS* dforkk ds vk/kkj ij crkb;s fd Qkxqu dh iadfrd 'kkdkk dk dfo ds eu ij dSlk iHkko iMk\

   4- ^;g nafjr eqldku* dforkk ea dfo us ekuo thou ds fdl IR; dks iadV fd;k gS\

iz11   ftrua ukxŒ us lflfDdde ;k=k ds nkSjku ckS),k /keZ ls tqMh dbZ jkpd tkudkfj;k¡ nhA ikB ds vk/kkj ij   4
   Li"V dhdt,A

iz12   fuEu ea ls fdlh ,d fo"k; ij fuca/k fyf[k,&   10
   1- ykdra= ea ehfM;k dh Hkkfedk& iLrkouk] ehfM;k dk mÙkjnkf;Ro] ykder dk fuekZ.k] ykdra= ea ehfM;k dk egRro ,oa dÙkZO;] Li)kZ dh nkSM+ ea dÙkZO;ghu ehfM;k] milagkj

   2- fodkl ds ekxZ ij gekjk ns'k Hkkjr& iLrkouk] fodkl ds fofHkUu lkiku] fodkl ea ck/kd rRo] milagkj

   3- ;kx vkSj Nk= thou& iLrkouk] ;kx ls ykHk] ;kx ea /;ku j[kus ;ksX; ckra] Nk= thou ea ;kx dh mi;ksfxrk] milagkj

iz13   vius fe= dks Nk= ifj"kn ea v/;{k pqus tkus ij c/kkbZ i= fyf[k,A
                                         vFkok
   vkidk uke lq[khj gS\ vkidh csd ikl cpd [kks xbZ gS\ csd eastj dks i= fy[kdj ysa&nsu ij jkd rFkk
   ubZ ikl cpd tkjh djus dk vkxzg dhft,A   5

iz14   LoPNrk vfHk;ku ij Lyksxu rFkk lfp= foKkiu r§kj dj dhft,   5

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Code No. 10/So. Sc/NLCS/112

Half Yearly Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 80**

Q.1   When did the first Printing Press come to India?   1

Q.2   Who said, "Printing is the Ultimate gift of God and the greatest one"?   1

Q.3   Define the terms :   1

      (i)   Individualism   (ii)   Reclamation

Q.4   What were the basic causes of Town-Planning in both Bombay and London?   1

Q.5   What is Feminist movement?   1

Q.6   What is Resource? How resources could be classified on the basis of exhaustibility?   1

Q.7   What term is used for the value of all final goods and services produced with a country during a particular year?   1

Q.8   How was the condition of women workers, changed from 19th and 20th centuries in London?   3

Q.9   Will it be correct to say that "French Revolution" was the effect of print technology?   3

Q.10   Explain the major forms of Power-sharing in modem Democracies?   3

Q.11   What measures were taken by Sri Lankan Govt. to achieve majoritarianism?   3

Q.12   How does the Indian constitution make India a <u>Secular</u> state? 3

Q.13   "Planning of resources is very important for a country like India", Justify by giving three reasons.   3

Q.14 What is water scarcity? What are major reasons of water
scarcity? 3

Q.15 What are multi-purpose projects? Evaluate their role in the
development of the country? 3

Q.16 "Money cannot buy all the goods and services that one needs to
live well". Explain. 3

Q.17 Why is Tertiary sector becoming so important in India? Give at
least four reasons. 3

Q.18 Compare working conditions prevailing in the organized &
unorganized sectors. 3

Q.19 Explain the various land reclamation projects launched in
Bombay, which helped in its expansion? 5

Q.20 Throw light on the rich heritage of manuscripts in India. 5

Q.21 "Three factors are crucial in deciding the outcome of politics of
social division". Which are these factors explain? 5

Q.22 What is Decentralization? What is the need of decentralization?5

Q.23 Explain between renewable and non renewable resources with
example? 5

Q.24 What is the role played by Banks in economic development of
the country? 5

Q.25 Explain the factors on which the quality of life depends? 5

Q.26 On the outline map of India locate and label given Dames
(a) (b) (c) : 3

Q.27 On the outline map of India mark : 2
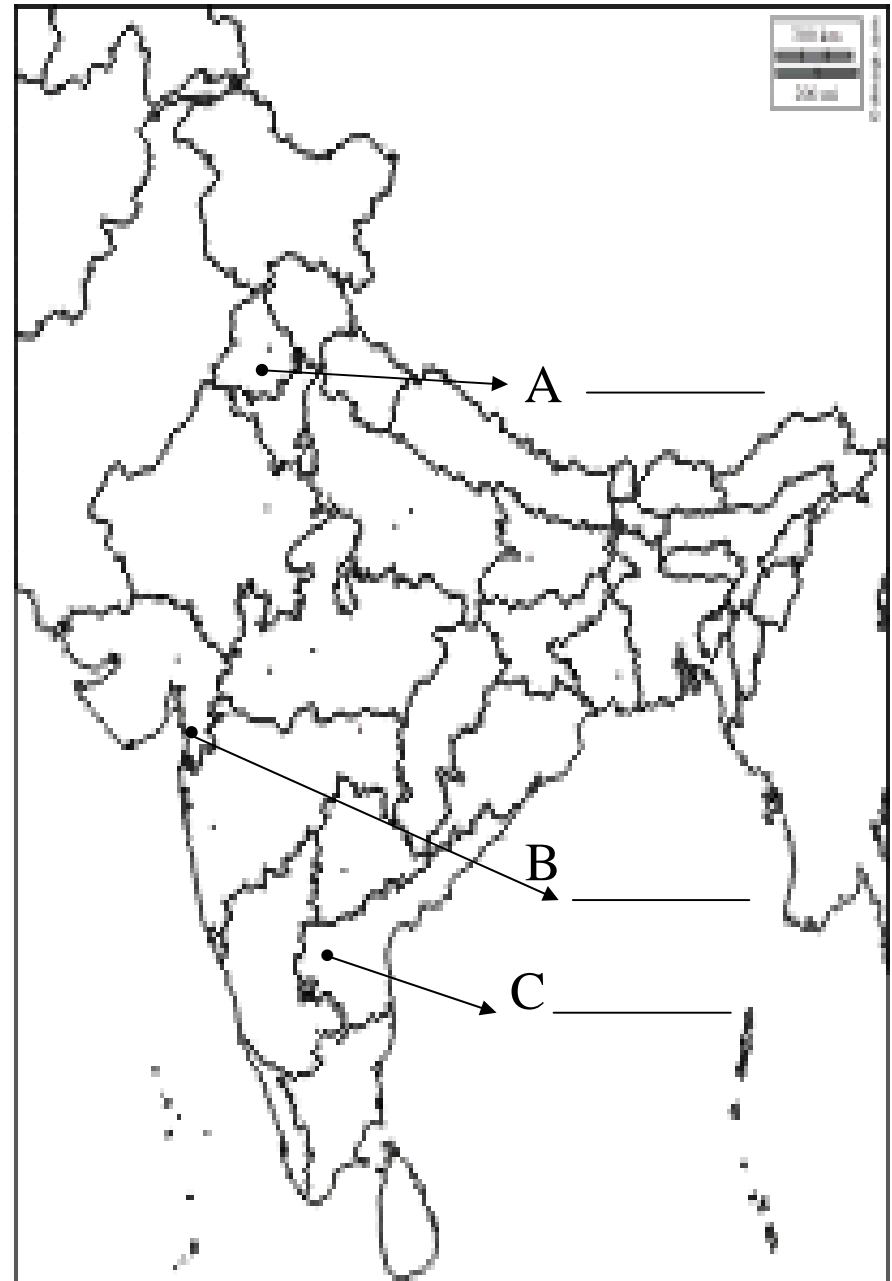(a) Arid soil area (b) Black soil area

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Q.26 On the outline map of India locate and label given Dames
(a) (b) (c) : 3

Half Yearly Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 80**

Q.1   What is bleaching power?   1

Q.2   Identify the substance oxidized and reduced in the reaction

$3MnO_2 + 4Al \rightarrow 3Mn + 2Al_2O_3$ 1

Q.3   Name the factors which are responsible for speciation.   2

Q.4   Write the observation when we heat ferrous sulphate crystals. 2

Q.5   Write the reaction of Zinc metal with HCl & NaOH.   2

Q.6   (i)   Which process is shown here?   2

    (ii)   Give reason.

Q.7   What is meant by radicle and plumule? What are the function of plumule and radicle?   2

Q.8   State the function of pancreatic juice and from where it is secreted.   2

Q.9   Calculate the resistance of 1 metre of copper wire that has a cross section area about $0.02m^2$, where the value of resistivity of copper is $\alpha = 1.6 \times 10^{-8}$ Ωm.   2

Q.10   The magnification of a plane mirror is m=+1. What does this signify?   2

Q.11   What happen when a light incident normal to the mirror surface? Explain with suitable diagram.   2

Q.12   State ohm's law. How can it verified experimentally?   3

Q.13   Draw the image for ;   3

Q.24   (i)   Write the Lewis structure of :   (i) $MgCl_2$ (ii) C_2H_6 1

    (ii)   What do you mean by thermit reaction?   1

    (iii)   What are amphoteric oxides?   1

    (iv)   Write two difference between calcination and roasting. 2

Q.25   (i)   Why rain water conduct electricity but distilled water doesn't?   1

    (ii)   What is the role of Ph in self defense of animals & plants?   1

    (iii)   Why carbon does not able to form C^{+4} ion or C^{-4} ion? 1½

    (iv)   What is the reason behind the versatile nature of carbon.   1½

Q.26   (i)   Why walls of artery is thicker than veins?   2

    (ii)   What is reflex action? Explain with the help of Example?   3

Q.27   (i)   Write the functions of the following in human female reproductive system : Ovary, Oviduct, uterus

    (ii)   How does the embryo get nourishment inside the mothers body. Explain in brief.   5

OR

    (i)   Define the term gene?

    (ii)   Define the term natural selection?

    (iii)   The gene for red hair is recessive to the gene for black hair. What will be hair colour of a child if he inherits a gene for red colour from his mother and a gene for black hair from his father? Explain with the help of flow chart?
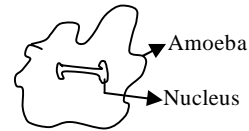
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(i) An object placed at focus of concave mirror.

(ii) An object placed at 2f for convex lens.

(iii) An object placed at C for convex mirror.

Q.14 Why is the colour of clear sky blue? 3

OR

Is the position of a star as seen by us, its true position? Justify your answer.

Q.15 Write balanced equation : 3

(i) Dilute Sulphuric acid react with Aluminium powder.

(ii) Reaction between plaster of paris and water.

(iii) Decomposition of lead nitrate.

Q.16 Explain : 3
(i) Rancidity (ii) Catenation
(iii) Reactivity series of metal

OR

Write the reactions of metal with water.

Q.17 Draw a diagram of human brain and label its following parts and also give the one-one function: 3

(i) Mid-Brain (ii) Cerebrum (iii) Medulla

Q.18 How does feedback mechanism regulate the hormone secretion? 3

Q.19 In the process of reproduction as used in spirogyra, the organism splits itself into small pieces. 3

(i) What is this process of reproduction called?

(ii) Will this type of reproduction be asexual or sexual reproduction? Answer with reason.

(iii) Is this process same as regeneration. Give reason.

Q.20 Anita had a huge scar on her cheek after she met with an accident during her school days. She is worried if her baby would inherit the scar she had acquired. Her doctor, a sincere medical practitioner explained and successfully convinced anita.

(i) What are acquired traits?

(ii) How is it different from inherited traits?

(iii) Mention the values the doctor exhibits. 3

Q.21 (i) Why does dry HCl gas not change the colour of the dry litmus paper? 1

(ii) How can a farmer rectify its basic soil? 1

(iii) What is the difference between baking soda and baking powder? 1

Q.22 A student finds the writing on the blackboard as blurred and unclear when sitting on the last desk in the classroom. He, however, sees it clearly when sitting on the front desk. 5

(i) Identify the type of defect.

(ii) Write its cause.

(iii) Give correction with suitable diagram.

Q.23 (i) A concave mirror produces three time real and enlarged image of an object place at 10cm. in front of it. Calculate the focal length of the mirror. 2½

(ii) Show the formation of the image with the help of a ray diagram, when object is placed 6cm away from the pole of a convex mirror? 2½

Roll. No. ☐ Code No. 10/Computer/NLCS/112

Half Yearly Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 80**

Q.1   Multiple Choice Question :   ½×10=5

(i)   Name the protocol used for WWW –
        (a) HTTP   (b) FTP   (c) W3C (d) None of these

(ii)   Tim Berners-Lee developed the WWW in -
        (a) 1988   (b) 1989   (c) 1990   (d) 1991

(iii)   Which internet service is an easy to create web site and
        consists of a signed and dated log of individual posting -
        (a) Face book (b) Blog (c) Chat Room (d) News group

(iv)   Which key is pressed to save the data base?
        (a) Ctrl +S   (b) Ctrl+V (c) Ctrl +C

(v)   Which property is used to add Tag into a field?
        (a) Smart tag   (b) Validation text (c) Validation rule

(vi)   How many default column headers are present for tables
        in Design view?
        (a) One   (b) Two   (c) Three

(vii)   Which option creates simple select query?
        (a) Select   (b) Create   (c) Wizard

(viii) What does the top section of a query window display?
        (a) Design Grid (b) Table   (c) Both

(ix)   How many sections are there in a query window?
        (a) Two   (b) Three   (c) Four

(x)   Which key defines a relationship between two tables -
        (a) Foreign key (b) Primary key   (c) Secondary key

Q.2   Write True OR False :   10×½=5

(i)   Query Windows is divided into three panes.

(ii)   Once a relationship is set, it cannot be deleted.

(iii)   Run button is present on the Home tab.

(iv)   Sorting can only be done through ascending order.

(v)   A table can have a maximum of 55 column.

(vi)   Two table can have the same name in a database.

(vii)   The overall purpose of a Database is to perform
        Mathematical calculations.

(viii) If more than one attribute forms the primary key it is
        called composite key.

(ix)   IMAP is suitable for offline use.

(x)   The AND operator narrow down your search result.

Q.3   Fill ups :   10×½=5

(i)   A collection of related Web Page is called a --------- .

(ii)   A ------------- is a PC or workstation that sends request
        for any information or service to the --------------- .

(iii)   Search engine use an extremely efficient software called
        spider which is also known as ----------------- .

(iv)   ----------------- can be used to impact training to a large
        group of students at a time.

(v)   ------ process arranges the data in a proper sequence.

(vi)   ----- type of database stores all the data in a single tables.

(vii)   A table is a database object which consists of--- and --- .

(viii) Records can be searched through -------------- buttons.

(ix)   Queries are made on ------------- .

(x)   The bottom pane of Query window displays ---------- .

Q.4   (i)   What do you understand by cross tab query?   1

(ii)   Name the type of queries available in Access.   1

(iii)   What is the use of Action query?   2

(iv)   How will you rename a field?   2

(v)   Define concurrency control.   2

(vi)   Define Tables, list the different elements of a table. 3

(vii)   Why is E-Mail so popular over conventional mail.   2

(viii) Expand the terms HTML,URL, TCP / IP and WWW. 2

(ix)   What do the terms Web Browser and Web Server mean.4

(x)   What is the function of chat?   2

(xi)   Describe the feature of Backup and Recovery
        Management.   2

(xii)   Explain the Datasheet view and Design View.   2

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Q.29 A solid consists of three parts. The middle part is a right cylinder of radius 3.5cm. On one side of it there is a hemisphere of the same radius and on the other side there is a cone of same radius. The height of the solid is 26cm. Find the outer surface area of solid. Height of cone is 12cm.

OR

Some students arranged a picnic. The budget for food was ì 240. Because four students of the group failed to go, the cost of food on each student got increased by Rs. 5. How many students attended the picnic.

Q.30 Calculate the missing frequencies from the following frequency distribution table if the mean of this distribution is 472.

Income (In Rs.)	No. of Workers
200-300	5
300-400	x
400-500	y
500-600	16
600-700	9
700-800	6
800-900	4
	Total $=100$

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Half Yearly Examination 2017 – 18

Time: 3:00 Hrs.   **M. M. 80**

Section – A

Question No. 1 to 6 carry One Mark each.

Q.1   If $p(x) = 3x^2 + 5x - 7$ has zeroes named as α and β, then write value of $\alpha + \beta$ and $\alpha\ \beta$.

Q.2   If $x = -2$ and $y = 3$ is a solution of equation $2x + my = 5$, then find m.

Q.3   In AP 2,5,8,11………..98. Find the 18th term.

Q.4   Evaluate $\sin 60° \cos 30° + \sin 30° \cos 60°$.

Q.5   In the given figure, PA is tangent. If AP=8cm. AQ=6cm. Find length of PQ. Here Q is centre of circle.

Q.6   If in a cone r=4.5 cm. h=7cm. then find its volume.
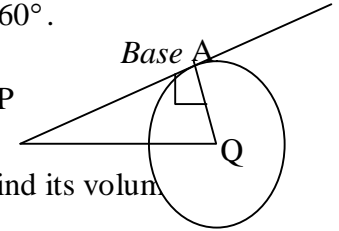
Section – B

Question No. 7 to 12 carry Two Marks each.

Q.7   Find the HCF of 741 and 1131.Using it find LCM also.

Q.8   If one root (zero) of quadratic equation $2x^2 + Kx - 6 = 0$ is 2, find the value of K. Also find the other root (using relationship of roots).

Q.9   The angle of elevation of top of a tower from a point 30m away from its bottom is 60°. Find the height of tower $\left(\sqrt{3} = 1.732\right)$.

Q.10   A sphere of radius 4.2cm. is melted and recasted into a cylinder of radius 6cm. find the height of cylinder.

Q.11   Find the median of first ten prime numbers.

Q.12   A card is drawn randomly from a deck of playing cards. Find the probability that the card is (a) Red card (b) A face card.

Section - C

Question No. 13 to 22 carry Three Marks each.

Q.13 Use Euclid's Division Algorithm to show that the cube of any positive integer is either of the form $9q, 9q+1$ OR $9q+8$.

Q.14 Divide $p(x) = 3x^4 + 5x^3 - 7x^2 + 12x + 21$ by $g(x) = x^2 + 3x + 1$, then write quotient and remainder. Check your result using division algorithm.

Q.15 Solve for x and y: $\dfrac{11x - 6y}{x-1} = 3, \quad \dfrac{8y - 5x}{x+1} = 5$.

OR

Solve for x and y: $\dfrac{14}{x+y} + \dfrac{3}{x-y} = 5; \quad \dfrac{21}{x+y} - \dfrac{1}{x-y} = 2$

Q.16 A train travels 360km at a uniform speed. If speed had been 5km/h more if would have taken 1 hour less for journey. Find speed of train.

Q.17 Find the sum of all the three digit numbers which leave the remainder 2 when divided by 5.

OR

Find the sum of first 51 terms of an AP whose second & third term are 14 & 18 respectively.

Q.18 If $\sin(A+B) = 1$ and $\cos(A-B) = \dfrac{\sqrt{3}}{2}$ where A, B are acute angle. Find values of A and B. Using these values calculate $\tan(2A - 3B)$.   **OR**

Evaluate, (using table) $\dfrac{5\cos^2 60° + 4\sec^2 30° - \tan^2 45°}{\sin^2 30° + \cos^2 30°}$.

Q.19 Prove that the parallelogram circumscribing a circle is a rhombus.

Q.20 A bucket is in the form of a frustum of a cone. Its radii of the circular ends are 28cm. and 7cm. and its height is 45 cm. Find the cost of milk that can be filled in it at the rate of Rs. 40 per litre.

Q.21 The distribution below gives the weights of 30 students of a class. Find the median weight of the students.

Weight (in kg)	40-45	45-50	50-55	55-60	60-65	65-70	70-75
No.of Students	2	3	8	6	6	3	2

Q.22 A box contains 20 cards, numbered form 1 to 20. A card is drawn from the box at random. Find the probability that the number on the drawn card is (a) Even (b) Prime number (c) multiple of 3.

Section - D

Question No. 23 to 30 carry Four Marks each.

Q.23 Prove that $\sqrt{5}$ is a irrational number.

Q.24 If in a rectangle the length is increased and breadth is reduced by 2 units each, the area is reduced by 28 square units. If the length is reduced by 1 unit and breadth is increased by 2 units, the area is increased by33 square units. Find the area of the rectangle.

Q.25 Solve for x: $\dfrac{x+1}{x-1} - \dfrac{x-1}{x+1} = \dfrac{5}{6}$.

Q.26 From your pocket money, you save Re.1 on day 1, Rs. 2 on day 2, Rs.3 on day 3 and so on. How much money will you save in the month of March 2016?

Q.27 Prove that: $\sqrt{\dfrac{1+\sin\theta}{1-\sin\theta}} + \sqrt{\dfrac{1-\sin\theta}{1+\sin\theta}} = 2\sec\theta$.

OR

Prove that: $\dfrac{\tan A + \sec A - 1}{\tan A - \sec + 1} = \dfrac{1+\sin A}{\cos A}$

Q.28 The angles of depression of the top and bottom of a 8m tall building from the top of a multi-storeyed building are 30° and 45° respectively Find the height of the multistoreyed building and the distance between the two buildings.