SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF EDUCATION

(An Autonomous College affiliated to the Tamil Nadu Teachers Education University and Re-accredited with A^{++} grade by NAAC with CGPA 3.82)

COIMBATORE – 641 020

B.Ed., Degree Examinations, December 2020

Note:

1. Answer ALL the questions in Section A, B & C and TWO in section D.
2. Answer in one word for in Section A, Should not exceed 100 words in Section B, 400 words in Section C and 800 words in Section D.
3. Each question in Section A carries 1 mark, B 4 marks, C 6 marks and D 15 marks.

Time: 3 Hours **Max. : 100 Marks**

B2P212: Pedagogy of Biological Science - Paper II

SECTION – A

Answer ALL the questions

(20 X 1 = 20 marks)

I. Choose the correct answer:-

1. Specific Instructional objectives are otherwise called _____.
   (a) General Instruction Objectives
   (b) Non-behavioral Objectives
   (c) Behavioral Objectives
   (d) Teaching objectives
   rpwgg[fwgpj;jy;nehf;f'f;fs;____ vdtk;miHf;fggLfpwJ.
   அ) bghJ fwgpj;jy;nehf;f'f;fs; ஆ) elj;ij myyhj nehf;f'f;fs;
   இ) elj;ij nehf;f'f;fs; ஈ) fwgpj;jy;nehf;f'f;fs;
2. Herbartian lesson plan consists of _____.
   (a) 3 steps (b) 4 steps
   (c) 5 steps (d) 6 steps
   bQughupad;ghlj;jpl;lj;jpy;_____ cs;sJ.
   m) 3 gofs; M) 4 gofs; ,) 5 gofs; <) 6 gofs;
3. _____ is the scaled down teaching encounter.
   (a) Micro teaching (b) Macro teaching
   (c) Team teaching (d) Teaching skill
   _____ vdgJ fhy msT[F iwthd fwgpj;jy;MFk;
   m) Ez;zpiy fwgpj;jy; M) tFggiw fwgpj;jy;
   ,) FG fwgpj;jy; <) ,izgg[ghlk;

4. _____ is the term used to bridge the gap between Micro teaching and Macro teaching.
   (a) Lesson plan (b) Micro lesson
   (c) Macro lesson (d) Link lesson
   _____ vdgJ Ez;zpiyf;fwgpj;jy;kwWk; tFggiwf;fwgpj;jy; Mfpatw;wf;F ,ilnaahd ,ilbtspiaf; Fiwf;fg; gadgLk;
   m) ghljj;pl;lk; M) Ez;zpiyg;ghlk;
   ,) tFggiwg;ghlk; <) ,izggg;ghlk;
5. Chalk and talk method is _____
   (a) Project method (b) Lecture method
   (c) Assignment method (d) Link lesson
   Rz;z flbnahL Toa fwgpj;jy;K iwvdgJ _____ MFk;
   m) brayj;pl;l K iw M) tputpt[iw K iw
   ,) xggilgg[K iw <) ,izgg[K iw
6. Instruction cards are used in _____
   (a) Assignment method (b) Demonstration method
   (c) Laboratory method (d) Project method
   Ma;tf Fwpgg[ml;ilfs;_____apy;gadgLj;jggLfpdw;wd.
   m) xggilgg[K iw M) nrhjid bra;J fhl;Lk;K iw
   ,) Ma;tf K iw <) brayj;pl;l K iw
7. _____ method proceeds from general to particular
   (a) Inductive (b) Deductive
   (c) Guided (d) Unguided
   _____ K iwahdJ bghJ tpjpapypUe;J Fwpj;j tpjpiaf; Fwpggjh Fk;
   m) bjhFj;jwp M) gFj;jwp
   ,) tHpfhl;Lj y; <) tHpfhl;Lj y;my;yhj
8. Attitude of a discoverer is developed by_____
   (a) Discovery approach (b) Buzz session
   (c) Team teaching (d) Brain storming
   fz;Lgpogg[kdgghd;ik _____ ahy;cUthf;fggl;lJ.
   m) fz;Lgpogg[mq FK iw M) BUZZ mku;t[
   ,) FG fwgpj;jy; <) FG rpe;jpgg[
9. The third trophic level is developed by _____
   (a) Producer (b) Herbivore
   (c) Carnivore (d) Decomposer
   cz;t[r';fpypad;\dwht Jnahrid kl;lj;ij _____ cs;slf;fpcs;sJ.
   m) cwgj;jpahsu; M) jhtu cz;zp
   ,) CDz;zp <) rpijggpfs;

SECTION – D
Essay type questions
Answer any TWO questions
(2 X 15 = 30 marks)

31. Select a topic in Biology and develop a lesson plan using Herbartian steps.
 c aµµa yµy;xU j i yg;i gj;njuµ;bj L j;J bQ ughuµa d;go f i sg;
 ga dgL j;jµ xU ghI j;jµI;I j;i j c U thf;F.
32. Discuss the components of skill of Stimulus Variation and skill of Explaining.
 gy;t i f J[z ;I y; jµwd;kw;Wk; tµs f;F j y] jµwd; M fµa twµwµd;
 TWf i sg;gwµwµ tµthjµ.
33. Criticize on Teacher centered approaches.
 M rµuµau; i ka m q FK i wf i s jµwdha;t[bra;f.
34. Describe the structure and functions of Human organ systems.
 kdµj c Wgg[m i kgg[f sµd; f I;I i kgg[kw;Wk;bra yghL f i s
 tµ t uµ.

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10. Cockroach respires through _______
 (a) Gills (b) Lungs
 (c) Skin (d) Spiracles
 fugghd;g[r;rµ _______ tHµahf Rthrµf;fµwJ.
 m) brt[s;f s; M) E i ua;uy;
 ,) njhy; <) \ rRj;J i s f s;

II. Fill in the Blanks

11. ______ is a plan of action.
 ______ vdgJ xU bra y; jµI;I k;
12. Micro-teaching was invented by _______.
 E z ;z µ i y fwgµj;j i y ______ vdgtu; f z ;Lgµo j;jhu;
13. ______ Method is based on the philosophy of Pragmatism.
 _______ K i w gadsi t f; bfhs;i f i a mogg;i I ahf bfhz ;I jhFk;
14. ______ is a group discussion to produce ideas or solve problems.
 _______ vdgJ rµe;j i d f i s c U thf;f my;y J rµf;f y;f i s j; j;u;f;f m i ke;j FG tµthj khFk;
15. Father of Siddha Medicine is ______.
 rµj;j kU j;J t j;jµd; je;i j ______ M thu;

III. Matching

16. Lesson plan ghI j;jµI;I k;	-	(a)	Rajasthan uh$! ;jhd;
17. Silence k t[d k(m i k jµ)	-	(b)	Inductive Method bjhF j;jwµ K i w
18. Rotation Method tµjµ tU K i w	-	(c)	Deductive Method gF j;jwµ; K i w
19. Synthetic Method nru];j;jwµ; K i w	-	(d)	Recapitulation kµs ;mwµj y;
20. Thar Desert jhu;gh i y t d k;	-	(e)	Team teaching FG fwgµj;j y;
	-	(f)	Stimulus variation gy;t i f J} z ;I y;
	-	(g)	Laboratory Method M a;t f K i w

SECTION – B
Very short answer questions
Answer ALL the questions
(5 X 4 = 20 marks)

21. (a) What is a lesson plan? Why it is needed?
ghlj;jpl;lk;vdwhy;vd;d? mJ Vd;nj it?
(or)
(b) Trace out the importance of unit plan in teaching of Biological Science.
ca;u;mwpt;ay;fwg;gj;jy;myF jpl;lj;jpd;
Kf;fpaj;Jtj;ijf;fz;lwf.

22. (a) Define – Micro teaching. Explain the Micro-teaching cycle.
Ez;zpiy fwg;gj;jy;tiuaW. Ez;zpiy fwg;gj;jy;
RHwr;ria tsf;Ff.
(or)
(b) Mention any four principles of micro- teaching objectives.
Vnj Dk;ehd;F Ez;zpiyf;fwg;gj;jy;nehf;f';fspd;
bfhs;iffis Fwpggl;Lf.

23. (a) State the concept of Teaching.
fwg;gj;jypd;fUj;Jg;gwwp TWf.
(or)
(b) Enumerate the characteristics of good assignment.
eyy;yxggilggpd;gzg[fis tsf;Ff.

24. (a) Summarize the merits and demerits of Seminar.
fUj;ju';fpd;rpwgg[fs;kw;Wk;Fiwghlfis RUf;fkhf TWf.
(or)
(b) Point out the benefits of Brainstorming.
FGrpe;jpgg[bra;tjd;ed;ikfis Rl;Lf.

25. (a) List down the advantages of Physical activities.
clwgawr;riapd;ed;ikfis glpay;Lf.
(or)
(b) Draw and elucidate the parts of a flower.
xUg[tpd;ghf']fis tiue;J bjspt[gLj;jf.

SECTION – C
Short answer questions
Answer ALL the questions
(5 X 6 =30 marks)

26. (a) Express your views on writing Instructional objectives in a lesson plan.
ghlj;jpl;lj;jpy;fwg;gj;jy;nehf;f';fis vHJtJ Fwp;J
c';fs;fUj;Jfis bts;gg[gLj;Jf.
(or)
(b) Analyse about the preparation and advantages of unit plan.
myFjpl;lj;jpd; Maj;jggLj;Jjy; kw;wk; mjd; ed;ikfs;
gww;wpgFggha;t[bra;f.

27. (a) Write about the skill of Illustrting the concept with suitable examples.
bghUj;jkhd vLj;Jfhl;LfSld;fUj;ij tsf;Fk;jpwidg;
gww;wpvGJf. (or)
(b) Identify the merits and demerits of Micro- teaching cycle.
Ez;zpiyf; fwg;gj;jy; RHwr;riapd; rpwgg[fs; kw;Wk;
Fiwghlfis fz;lwf.

28. (a) Bring out the relationship among approaches, method and technique of teaching.
fwg;gj;jy;mq FKiwfs;fwg;gj;jy;Kiwkw;Wk;fwg;gj;jy;Elgk;
Mfpatw;Wf;F , ilapyhd cwit bts;f;bfhzu;f.
(or)
(b) Examine how Project Method is important in teaching Biological Science.
ca;u;mwpt;aiy fwg;ggj;jy;bray;jpl;l Kiwvt;thW
Kf;fpakhd Jvdgij Muha;f.

29. (a) Explain the importance and steps involved in Scientific Method.
mwpt;ay;Kiwapd;Kf;fpaj;Jtj;ijak;gofisak;
tsf;Ff.
(or)
(b) Compare Inductive approach and Deductive approach with suitable examples.
tpj;jtU Kiwkw;Wk;tpj;tsf;f Kiwmq FKiwfis
bghUj;jkhd vKj;Jfhl;LfSld;xgg;Lf.

30. (a) Enumerate the Life cycle of Sericulture.
gl;l tsugg;gpd;thH;f;ifr;RHwr;ria tsf;Ff.
(or)
(b) Differentiate Food chain from Food web.
cz t[tisaypUe;J cz t[r';fypiantWgLj;Jf.