BEDC43(5)

**N.V.K.S.D. COLLEGE OF EDUCATION**

**(AUTONOMOUS)**

**B.Ed. Degree Fourth Semester Examination, May 2023**

**(For the candidates admitted during the academic year 2021-2022)**

**Pedagogic Course: EMERGING TRENDS IN PHYSICAL SCIENCE EDUCATION**

**Course code: BED4PC016**

**Time: 3 Hours Maximum Marks: 70**

**SECTION A (10 x 1 = 10 marks)**

**Answer ALL the questions by selecting the appropriate answers.**

1. Inquiry training model belongs to the family of

a) Information processing model b) Behaviour modification model

c) Personal model d) Social Interaction model

fz;lwpjy; gapw;rp khjpup ,e;j FLk;gj;ij Nru;e;jJ

m) jfty; nrayhf;fk; khjpup M) elj;ij khw;wk; khjpup

,) jdpg;gl;l khjpup <) r%f njhlu;G khjpup

1. Concept attainment model was developed by

a) Richard Suchman b) J.Bruner c) David Asubel d) Hilda Taba

fUj;JUthf;f Kiw khjpupia cUthf;fpatu;

m) upr;ru;L rr;nkd; M) n[.GUzu; ,) Nltpl; mRngy; <) fpy;lh jgh

1. The role of teacher in Problem Based Learning is as

a) A guide b) A friend c) A philosopher d) An actor

rpf;fy; mbg;gil fw;wypy; Mrpupaupd; gq;F

m) vspjhf;Fgtu; M) ez;gd; ,) jj;Jtthjp <) ebfu;

1. The primary focus of instruction in collaborative learning is

a) Teacher b) Learner c) Content d) Society

$l;Lf;fy;tp fw;wypy; fw;gpj;jypd; Kjd;ik ikak;

m) Mrpupau; M) fw;gtu; ,) ghlg;nghUs; <) r%fk;

1. The professional development of a teacher is not for

a) Good subject knowledge b) Getting knowledge of social matters

c)Understanding the pedagogy d) Knowing recent trends and development

Mrpupaupd; njhopy; rhu;e;j Kd;Ndw;wj;jpy; rhuhjJ

m) ghlk; rhu;e;j mwpT

M) r%f tp\aq;fspy; mwpT ngWjy;

,) fw;gpj;jy; Kiwfis Gupe;Jnfhs;Sjy;

<) jw;fhy eilKiwfis mwpe;J nfhs;Sjy;

1. The three areas of techno pedagogy are

a) Content, Pedagogy, Technology b) Practice, Content, Transaction

c) Pedagogy, Curriculum, Training d) Technology, Pedagogy, Specification

El;gq;fSld; fw;gpj;jypd; %d;W Kf;fpa Jiwfs;

m) ghlg;nghUs;> fw;gpj;jy;> El;gq;fs;

M) gapw;rp> ghlg;nghUs;> guptu;j;jid

,) fw;gpj;jy;> fiyj;jpl;lk;> gapw;rp

<) El;gq;fs;> fw;gpj;jy;> tptuf;Fwpg;G

1. One of the following is a co-curricular activity in Science teaching

a) Black Board b) Science fair c) Text Book d) Instruction

gpd;tUgtw;Ws; mwptpay; fw;gpj;jypd; ghl ,iz nray;ghL

m) fUk;gyif M) mwptpay; re;ij

,) ghlg; Gj;jfk; <) mwpTWj;jy;;

1. A science teacher evaluates pupil performance not for

a) Upgrading subject knowledge of the students

b) Motivating the students

c) Assessing students’ classroom management

d) Improving learning efficacy

mwptpay; Mrpupauhf khztu;fspd; nray;jpwid kjpg;gpLtJ ,jh;f;fhf nra;ag;gLtjpy;iy

m) khztu;fis ghl mwpit Nkk;gLj;Jjy;

M) khztu;fis Cf;fg;gLj;Jjy;

,) khzth;fspd; tFg;giw eph;thfj;ij kjpg;gPL nra;jy;;

<) fw;wy; jpwid Nkk;gLj;Jjy;;

1. Field trips are useful in Science teaching for

a) Evaluation b) Empirical evidence c) Entertainment d) All the above

mwptpay; fw;gpj;jypy; fs gazq;fspd; gad;ghL vd;gJ

m) kjpg;gpLjy; M) mDgt Mjhuk;

,) nghOJ Nghf;F <) Nkw;$wpa midj;Jk;

1. The word ‘pedagogy’ means

a) To guide the adult b) To lead the child

c) To educate the group d) To understand the child

nglNfh[p vd;gjpd; nghUs;

m) taJ te;Njhh;f;F top fhl;Ljy; M) Foe;ijia topelj;Jjy;

,) FOtpid fw;gpj;jy; <) Foe;ijia Gupe;J nfhs;Sjy

**SECTION B (10 x 2 = 20 marks)**

**Answer any TEN questions in about 50 words each.**

1. Write any four characteristics of concept attainment model.

fUj;JUthf;f khjphpapd; VNjDk; ehd;F gz;Gfis vOJf.

1. What is a teaching model?

fw;gpj;jy; khjpup vd;why; vd;d?

1. How is brain based learning helpful in concept formation?

mwptpd; mbg;gilapy; fw;wypy; fUj;J cUthf;fj;jpw;f;F; vt;thW cjTfpwJ?

1. Analyse the significance of Co-curricular activities in Science teaching.

mwptpay; fw;gpj;jypy; ,iz ghlj;jpl;l nray;ghLfspd; Kf;fpaj;Jtj;ij gFg;gha;T nra;Aq;fs;.

1. Give any four characteristics of experiential learning.

mDgt fw;wypd; VNjDk; ehd;F gz;Gfis jUf.

1. Analyze the significance of collaborative learning in Science.

mwptpaypy; $l;Lf; fw;wypd; Kf;fpaj;Jtj;ij gFg;gha;T nra;Aq;fs;.

1. How far Flipped Learning relevant in Science teaching?

mwptpay; fw;gpj;jypy; jiyfPo; fw;wy; vt;thW Vw;g;GilajhapUf;Fk;?

1. Enlist the uses of M- learning.

M - fw;wypd; ed;ikfis gl;baypLf.

1. Differentiate between in-service and pre-service programme.

gzpapilg; gapw;rp kw;Wk; gzp Kd; gapw;rpapid NtWgLj;Jf.

1. Define web based learning.

,iza mbg;gilapyhd fw;wy; tiuaW.

1. Why soft skills are important for a Science teacher?

mwptpay; MrpupaUf;F nkd;jpwd;fs; Vd; Kf;fpakhdJ?

1. Mention the activities of a Science club.

 mwptpay; kd;wj;jpd; nray;ghLfis Fwpg;gpLf.

**SECTION C (4 x 5 = 20 marks)**

**Answer any FOUR questions in about 200 words each.**

1. Explain the components of Advance organizer model.

ghl Kd;dikg;G khjpupapd; $Wfis tptup.

1. Describe the fundamental elements of models of teaching.

fw;gpj;jy; khjpupapd; cWg;Gfis tptupf;f.

1. Explain the principles of co-operative learning method.

$l;LwT fw;wy; Kiwapd; nfhs;iffis tpsf;Ff.

1. Discuss the role of reflective practices in professional development of teachers.

Mrpupau;fspd; njhopy; rhu;e;j Kd;Ndw;wj;jpy; gpujpgypg;G eilKiwfspd; gq;fpid tpthjpf;f.

1. What are the criteria for selection of co-curricular activities?

ghl ,iz nray;ghLfis Nju;e;njLg;gjw;fhd tpjpKiwfs; ahit?

1. “Science teacher as a techno pedagogue”. Discuss.

“mwptpay; Mrpupau; El;gq;fSld; fw;gpg;gtu;”. tpthjpf;f.

**SECTION D (2 x 10 = 20 marks)**

**Answer BOTH the questions in about 500 words each.**

1. a) Explain Learning Management System.

fw;wy; Nkyhz;ik mikg;G Fwpj;J tpsf;Ff.

(or)

b) What is Science exhibition? As a science teacher how will you organize Science exhibition for your students?

mwptpay; fz;fhl;rp vd;why; vd;d? Xu; mwptpay; Mrpupauhf mwptpay; fz;fhl;rpia cq;fs; khzth;fSf;F vt;thW xUq;fikg;gha;?

1. a) What is concept mapping? Explain it with suitable illustration by highlighting the merits and demerits.

fUj;Jg;glk; vd;why; vd;d? mjid nghUj;jkhd cjhuzj;Jld; tptupj;J mjd; epiw kw;Wk; Fiwfis Kd;dpiy gLj;jp tpthpf;f.

(or)

b) Give your rationale for selecting teaching as a profession.

fw;gpj;jiy xU njhopyhfj; Njh;e;njLg;gjw;fhd cq;fs; epahaj;ijf; $Wq;fs;.